

## A MIRACLE IN STONE:

## OF

## Thi Grbar Pybamid or Egypr.

BI

JOSEPH A. SEISS, D.D.,
Pedor of the Chanal of the Fely Comanumion, Fhiled, Pe,


${ }^{4}$ In that day ihall chere be an aler to the Lord in the mider of che land of Espphand a pillar ar the border chereof co the Lard; and it ahald be for a rign and for a vitnen anto the Lord of Fort in the land of Egrpt."-In. 19: 19, 30.

FOURTH EDITIOM EELARGED.

## PHILADELPHIA:

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# Andover- haryard <br> Theologichl Ljarary Cambridge, Mass. <br> Hfa, "13 <br> Fet 3.1940 

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By JOGEPE A BEIGA,


## PREFACE.

This book is meant to give a ancinct comprebensive account of the oldeat and greatest existing monument of intellectual man, particularly of the recent discoveries and claims with regard to it,

If the half that learned and scientific investigatore allege respecting the Great Pyramid of Gizeh be true, it is one of the most interesting objects on earth, and ought to command univeraal attention. It has been unhesitatingly pronounced, and perbape it is, "the moat important discovery mede in our day and generation."

Simply as an architectural achievement, this myeterious pillar, from the time of Alezander the Great, has held its place at the bead of the list of "s The Seven Wonders of the World." But, under the researches and studies of mathematicians, antronomers, Esyptologiats, and divines, it has of late been made to ukame a character vastly more remarkable. Fucta and coincidences so numerous and extraordinary have been evolved, that eone of the most sober and phitosophic minds have been startled by them. It would verily seem as if it were ahout to prove itself a sort of ley to the universe-a symbol of the profoundest trathe of science, of religion, and of all the past and futore history of man. So at least many competent
persons bave been led to regard it, after the most thorough sifting which the applisnces of modern science and intelligence bave been able to give it.

Particularly in Bcotland, England, and France has the subject elicited much earnest interest. Quite a number of works and treatises, most of them voluminous, costly, and learned, have been devoted to it, and not without a marked and serious impression. St. Joho Vincent Day, Fellow of the Royal Scoltish Bociety of Arts, member of mndry institutions of Engineers, and honorable librarian of the Philosophical Society of Glasgow, bays:
"A former published work on the suhject, besides one or two papers in the transactions of a acientific Society, have of neesesity brought me into contact with every shade of opinion as to the various theories respecting the Pyramid, and the facts belonging to it. I have thus been eaabled, both by verbal and written discussiona and argumenta, to ascertain the weight of evidence on which theories, assertions, contradictions, and alleged facts heve heen supported; and I can only atate that in those casea where the Pyramid nubject has been examined into with a diligent spirit of inquiry, tbat is with the aim of not merely strengthening preconceived notiona or prejudices, hat to evolve absolute realities, I have not yet met any one bat who is more or less convinced by the modern theory."Preface to Papers on the Great Iyramid, 1870.

In this country, the publicatioos on the subject bave been very circumseribed. A few tracts, short papers, review articles, or incidental discossious iu
condection with other subjects, is about all that has thus far appeared from the American press. And an the European books are mostly large, expensive, and not readily acceasible, comparatively few amoug us have had the opportunity of learning what has developed in this intereating field. A just ressume of the matter, of moderate length and price, in plain and easy form, would seem to be oeeded and specially in place.

In the absence of anything of the sort, and with a view to what might in measure supply the want, the preparation of the following Lectures was andertaken. How far the effort has succeeded, the candid reader will determine. It has at least been honest. Perauaded of the varied worth of the subject, the author has endervored to be accurate in his presentations, and as thorough as the space would allow. For his data concerning the Pyramid he has been obliged to rely on the original works of explorers, to which due reference is given. Though in Egypt in the latter part of 1864 , with a view to some personal examinations, a severe sickness, contracted in Syria and Paleatine, prevented him from acsomplishing the purpose for which be visited the land of the Pharaobs, But bis interest did not therefore abate. In 1869 he gave out a amall publication on the Great Pyramid, and haviug tried to master and digest what has thus far been adduced by othera, he now venturea a larger exhibition of the case as it presents itself to him. The intricacies of mathematica and astrodomy, so deeply involved in these pyramid investigations, be bas in-
tentionally avoided, seeking ruther to explain for the many than to demonstrate for the few. He has conGned himself mostly to descriptionsand statements of reaulta, which he has sought to give in a way which all readers of average intelligence can readily follow and understand.

If what he has thus produced is so far favored as to promote a more general and deepar inquiry and study into thia surprising and most perfeet monument of primeval man, the chief object of the author will have been attained. The interest awakened by the Lectures at their oral delivery during the past winter, and the numerous applications to procure them in priot, also encourage the belief that, with the notes and amplifications since added, they may perchance be acoeptable and serve a good parpose. With the hope, therefore, of thus contribnting something towards the furtherance of correct science, true philosophy, and a proper Chriatianity, the autbor herewith commita these sheets to the press, and to an appreciative and indulgent public,

## To the Fouith Edition.

The new Lecture now added to this book has been deemed necessary to complete the presentation of the subject. It containe all that the author has at preseat to say on the state of the questions iuvolved. A thorough Indes to the whole is also given. It is hoped that these additions will greatly enhance the value of the work.

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 cially if at a somewhat advaced period of lifa, Fill find not only that be ber much to learn, hut much aleo to onleard. As a Brat preparation, therefore, for the coorse he is about to commence, he muat lecen his hold on ell arude end hatily edepted notions, and must atrengthen himself, by eomething of en effort and a fegolye, for the anprefudiced admission of any concluation which ahall appear to he supported by carcful ubsarpation and logichl argument, oyen ahould it prove of a bature edveree to notione he may have previulaly formed for himealf, or taken up, without examination, on the credit of othera, Buch an effort is, in fact, e commencement of thet intellectual dideipline which forma one of the mod laportant ends of all exience. ${ }^{11}$ Sir Johs Harachel.
"Ten fair queation la, doen tha nawly propoded view removn more dimpulties, require fomer asumptions, and prebent more coneistency with observed facts, then that which it geeks to eruperaedef If go, the philopopher will adopt it, and the world will follow the philosopher, "—Growa' Addran to the British Ausciation for the Adrancoment of Shintes.



## INDICATIONS ON THE DIAGRAM．



```
    D, B, B, Pyramid apt In belf; Flowed from the onct
    C, C, C, Entrinces pureqga
    D, D, FHrat eceraligg pometer,
    Rを, を,Themell.
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    G, O, G, Natipe rock, left ntendlog
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    L, Sibhlatio of Quear'u Chembar.
    J, Grand aiche in Quern's Clember.
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    L,Grapd Gllerg.
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Oragd Gallery'g bech.
    N,Grent otep at mpulh god of Grend Gallery.
    O4 Oramite larl' In entardom to Klng't Chwmber.
    P, P, Anhermoqi Lo Tivg'e Chamber.
    4, EIng'u Chembet.
    Fi. Orand Gorter In Flag'e Chember.
    B, 8, 昂, 8, Chmmbers of eoned ruclion.
    T, T, Femliletlog tubee to Elog'a Chmmbap.
    D, Bquposed undlocopered Chminer.
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the Great Fyrmenld कls budt
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    I, I, Al Mamorm'^ lorceil parnagm,
    E. Tlma-minta or the bridilug of the pythmul
    Z,E,Z,Z, Cualmg-gtomes, now grag,
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cppromoling gellowlah-whlua
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 nalter mpa
As werda, Tho long toppose
All that they apand to be
Their gaerdien'a libershity,
Mot wbat inheritance bentown,
Thair theake to others ignorently pay
For that which they
At leat perceive to be thair own
To their rich ancettors obliged alone;-
Bo we vaiuly thought
Ouraelven to (treece much band
Fof erta which we hepe foand
To be from higher eged brought,
Hy thair ma well an our forefathers taght.
Gala'a "Cound of the Gentilent ${ }^{\text {" }}$

## A MIRACLE IN STONE:

$\mathrm{OH}_{1}$

## THE GREAT PYRAMID OF EGYPT.

## Eituty efirst.

GEAREAL FAOTS AND BOIBNTIPIO FEATUREM.


NE of the ablest of England's Egyptological writery has aaid that Egypt is the anomaly of the earth's preaent aurface. The very adaptations and adjustments of the air and solar distances, by which vegetable life is sustained in other countries, here give place to noother code, framed expressly for the Nile. The same may be said of it with regard to ita place in history, It bas always been somewhat aside from the general curreat of uffairs, having its own unique constitution and life, and yet closely related to all civilized humanity. Through whatever path, sacred or profane, we propose to go back to the heginninge, Egypt is never entirely out of view, Closely secluded from
all the rest of the world-the Jupan of the ages-it atill lies at the gatewny of the traditions of Judea, Greece and Rome; intermingles with all the Divine administrations, and connects, in one way or another, with some of the most famous names and events in the annals of time.

It is a land which has been reclaimed and created by the Nile, that "High Priest of streams,"

The日e wives beve cast More riches round them, as the current rollod Through many elines its eolibury ford, Then if they surged with gold.
The shoreline, around the several mouths of this mysterious river, describes a large semicircle, to which the emptying streams run out like the ribs of a spread fan, or like so many spokes of a wheel. The centre of this arc is the first rocky elevation on the south, about ten miles weat of Cairo. And, atrange to ary, that centre is artificially and indelibly marked by a massive stone structure, of almost solid cyclopean masonry, of a form found in no other country, and at once the largest and oidest building now standing on the face of the earth. This hoary monumental pile is The Great Pyramid of Gizeh, of which it is my parpose to present some account.

## The Ceart.

In order to aid the mind by means of the eye, I have caused a diagram of the Great Pyramid to be prepared, which, if first care fully examined, will materially contribute to a clear understanding of what is to be said. A few explanationa may be necessary, and bence are here given.

The large equare, marked by heavy black lines, indicates the base of the edifice, which covers about thirteen acres of ground, equal to about four ordinary blocks of our city, including their streets. The darkened triangular mass represents the body of the pyramid, showing the slopes of the sides as they rise to a point at the summit. The lines on the outaide mark the original size, as covered with polished casing-stones, all of which bave been quarried off by the Mosleme, to build and ornament the mosques and bouses of Cairo, or to be burnt for lime. About thirty feet of the original edifice has also disappeared from the top, leaving perhaps twenty-four feet square of level space, from which the strongest man cannot throw a stone, or shoot an arrow, far enough to fall clear of the brie. Even with so much of the summit gone, it is still more than double the height of
the highest steeple or tower in Philadelphis, and higher than the highest known ateeple or tower in the world.

The elevation shows the pyramid cut in half, from north to south, in order to give a view of the interior. As here seen, the spectator is looking from east to west. There are no known openinge but those which appear in these open and unshaded spaces. The dark aquare toward the top (U) indicates an imaginary room which is believed to exist, but not yet discovered.

The only entrance into the edifice, as left by the huilders, is that low and narrow square tube, which begins high up on the north side, and runs obliquely down to an unfinished room in the solid rock, about one hundred feet below the levelled surface on which the pyramid stands. The size of this entrance passuge is not quite four feet high, and a little over three feet five inches wide. A man needs to stoop considerably to pase through it, and to take heed to his steps on account of the steep incline, originally finished as smooth as a slate, from top to bottom.

The first upward passage is directly over the entrance-tube, and is of the same general size and cbaracter. It follows the same direc.
tion from north to south, and conducts to a high, long and beautifully finished opening, whose floor-line is continuous with the passage of ascent to it. This is the Grand Gallery, twenty-eight feet high, each of whose sides is built of seven courses of overlapping stones. It is covered hy thirty-six large stones stretchng across the top. It is a little over eighteen hundred and eighty-two inches long, and suddenly terminates against an end wall, which leans inward. The further opening is low and small again, leading into a sort of narrow anteroom, in which adouble and leavy granite block hangs from grooves in the eide walls.

Then follows another low entrance leading into what is called the King' Cbamber, the higheat and largest known room in the edifice. In this chamher stands the only article of furniture in the pyranid, the celebrated granite Coffer. Above this room are shown what are called the chambers of construction, indicating how the builders arranged to keep the weight of the superincumbent inass from crushing in the ceiling of the King's Chanber, which ceiling consists of niac powerful blocks of granite, stretching from one side to the other. The dark or crossed shadings about this chamber indicate the stones to be granite, all the rest of the building not so marked is of light
limestone. This room is an oblong square, four hundred and twelve inches long, two hundred and aix broad and two hundred and thirty high. It is ventilated by two tubes, running from it to the outer surface.

Directly under the Grand Gailery, and running in the sane direction from north to south, is a horizontal passage, which starts on a level with the entrance into the Grand Gallery, and lends to what is called the Queen's Chanber. The floor of this room, if floor it may be called, mensures two hundred and five by two hundred and twenty-six incles, and stands on the twenty-fifth course of masonry, as the King's Chamber stands on the fiftieth course. It has a pointed arch ceiling. Though excellently finished, this room has neither ornament nor furniture. There is a line marked evenly around its sides at the height of the pasaage of entrance, and a remarkable niche in ita east wall, the top of which is twenty-five inches across and twenty-five inches south from the vertical centre of the wall into which it is cut. This room also has two tubes leading from it, only recently diacovered, which the builders left concealed by a thin scale over each. They are cut regularly, and approach inward through the walle to within one inch of the inner surface, which was left as though
no such c penings existed back of it. Whether these tubes extend to the outer surface has not been racertained.
Nearly three feet from the beginning of the Grand Gallery, on the weat side, is a torn and ragged opening, in which is the gaping moutb of a atrange well, ruaning irregularly and somewhat tortudusly down through the masonry and original rock, till it strikes the main entrance a short way above the aubterranean chamber. Nearly balf the way down it expands into a rough grotto or wide bulge in the opening, making a large irregular aubterranean bowl.

Below the entrance passage, and a little to the weat of it, the dark and rugged opening shown represents the hole made by one of the Mobammedan calipha, about A.D. 825, who thus cut into the pyramid in search of treasures, not knowing that there was an open passage not far above.

The small black aquares represented at the corners of the base indicate the peculiar sockets, cut eight inches into the living rock, into which the foundation curaer-atones were set. Tbese are charucteristics of the Great Pyramid, in which it differs from all others, and are of apecial value, in the present ruinous condition
of the edifice, in ascertaining the exact original corners and the precise lengthe of the sides.

The encompassing circle, drawn to the redius of the pyramid's beight, indicates the matbematical idea to which the whole building is constructed; the length of the four sides of the square base being the same as the circumference deacribed by a sphere, of which the vertical height is the radius. It shows the edifice in that remarkable feature, to wit, a practical squariny of the circle.

The amaller pyramids below represent the next in size nad age to tbe Great Pyramid. They are introduced for no other purpose than to show the difference of interior between them and it; on which difference an argument is founded to prove them mere ignorant imitations of the Great Pyramid, and not at all to be classed with it in intellectuality and design.

The hieroglyphics are reproductions of the cartouches of the two kings, Sbufu and NemShufu, who occupied the throne at the time the Great Pyramid was built. They were discovered by Colonel Howard Vyse, in 1837, roughly painted on the undressed sides of the stones in the upper cbambers of construction, which were never opened until he forced a way up to them.

## Tae Histort.

There is no known tine within our historio periods when this pyramid was not famors. Herodotus, the soccalled Father of History, ns early as 445 B.C., made a personal examination of it, and devoted some most interesting paragraphs to it. It whs then already considered very ancient. Traditional nccounts of its erection he gathered through an interpreter from nn Egyptian priest, and theae he bns recorded with much particularity. His own appreciation of the atructure, and of the causewhy over which the materials were conveyed, was that of wonder and admiration.*
llomer does not seem to make any allusion to it, perhaps for the reason that it had no connection with mytbology, or with any of his heroes.

Erntosthenes (236 B.C.), Diodorus Siculus (60 B.C.), and Strabo and Pliny (ahout the beginning of our era), all wrote of it. The latter, in referring to the Pyramids, also bayb, "The authors who have written upon them are Herodotus, Euhemerus, Durius Samius, Aristagoras, Dionyius, Artemedorus, Alex-

[^1]nader, Polyhistor, Butorides, Autisthenes, Demetrius, Demoteles, and Apion," ${ }^{\text {² }}$

But though the Great Pyramid has been standing in its place for 4000 years, it is ouly within a very recent period tbat there has been any rational appreciation of it. For 3000 years of its existence, up to the time of the mediæval Caliph Al Mamoun, no mortal man, perbapa, ever penetrated into its upper pasaages and main openings. Certainly, for many centuries before him, it was completely clused up, no entrance to it being known any more to any human being.
This son of Haroun Al Raschid of the "Arahian Nights," flattered and almost worshipped as a god, was ao wrought upon by the romancers and fabulists of his court that he was led to believe the Great Pyramid crowded full of precious treasures. all the dazzling riches, jewels, medicines, charms, and aciences of Sheddad Ben Ad, the Museulman's great antediluvian king of the earth, were made to glitter hefore the avaricious fancy of Al Mamoun. He therefore set bis hosts at work to quarry out an opening into the wonderful treasure-house, full of astonishing riches in-

[^2]deed, but not of the sort of which he was dreaming.

With the crude instruments and poor knowl-- -ige which his hordes possessed, it proved no easy task to cut through that grand masonry. Again and again the thing was pronounced inupossible. But Molannmedan fanaticism and tyranny proved equal to the undertaking; not, however, without atraining everything to the very utmost, and Al Mamoun's own power to tbe point of revolution. The excavation was driven in full oue hundred feet, with everytbing solid up to that point. Having expended all thislabor to no effect, all further effort was about to be abandoned, when $n$ singular, perhape providential, occurrence served to reanimate exertion. The sound of a falling stone in some open space not far beyond them was heard, which incited them to dig and bore on, till presently they broke through into the regular passage-wuy. They struck this tube just where the first ascending passage forks off from the descending one. 'The stone which had fallen was one whicb hung in the top of the eutrance passage, quite concealing the fact of anotber and opwaid way. But the newly uncovered passige they found stopped by a heavy stone portcullis, fitted into it from
nbove as tight as a cork in the mouth of a bottle. It was impossible to remove it. It remains there still. Al Mamoun caused his men to dig and blast around it. But even beyond the portcullis, the whole passage was filled up with great atones from top to bottom. Removing one, the next slid down in its place; and so another and another, each of which was removed, till at length the entire upward avenue was freed from obstructions. Up went the bearded crew, shouting the name of Allah, in full confidence that the promised treasures were now within their grasp. "Up," as Prof. Smyth describes it, "up no less than one hundred and ten feet of the steep incline, crouched bands and knees and chin together, through a passage of royally polished limestone, but only forty-seven inches high and forty-one brond, they bad painfully to crawl, with their torches burning low." Thence they emerged into the Grand Galkery, long and tall, seven times as high as the passage through which they came, empty, however, and darker than night. Still the way was narrow and ateep, only six feet wide at any point, and contracted to three at the floor, though too high for the power of their smoky lights to illuminate. Up and up the amooth aud long ascending floor-line the marauders pushed
their elippery and doubtful way，till nenr the end of the Grand Gallery．Then they clam－ bered over a three－font step；then bowed their heads beneath a low doorway，bounded on all sides with awful blocks of frowning red gran－ ite；and then leaped without further hin－ drance into the Grand Cbamber，the first to enter since the Great Pyramid was built．＊

[^3]A noble cbamber did these maddened Moslems also find it, clean and garnished, every aurface of polished red granite, nnd everything indicative of master builders. But the coveted gold and treasures were not there. Notling was there but blnck and solemn emptiness. There atood a solitary stone chest, indeed, fasbioned out of a single block, polished within and without, and sonorous as a bell, but open, lidless, and empty as the space around it. The caliph was astounded. His quarriers muttered their anathemas over their deception into such enormous, unrequited, and fruitless labors. Nor could Al Manoun quiet the outbreaking indignation toward him and his courtiers, except by one of those suintly frauds in which Mobammedanism is so facile. He commanded the discontents to go dig at a spot which he indicated, where they soon came upon a sum of gold, exactly equal to the wage claimed for their work, which gold he bad himself secretly deposited at the place. When it was found, he could not repress his astonishment that those mighty kings before the flood were eu full of inspiration as to be able to count so

[^4]truly what it would cost in Arab labor to break open their pyramid!
But the great myaterious structure was now open. Henceforward any one with interest and courage enough to attempt it might enter, examine, study, and find out what he could.

For centuries the Arabians went in and out betimes, when able to overcome their superstitious fears. Some of their marvellous tales of amall miracles and vulgar wonders have been put on record. But apart from the mere fact of the forcible entrance by Al Mamoun, it is agreed that scarcely a shred of their testimony is at all credible.*

[^5]Prof. John Grenven (1687) quoles from some of these writers,

We muat therefore depend on the explorations and nccounte of the more obseryant, appreciative, and philosoptic European mind for our knowledge of the Great Pyraraid. In some instances, however, the case is not much improved. Sir John Mandeville, perhaps the grentest English traveiler of the middle agos, who spent thirty-three years in wanderings through the Enst, visited Egypt and the Pyramids about A.D. 1350, and has left us a theory concerning them, but confesses that he was afraid to enter then, becanse they were reputed to he lull of serpents!**

The earliest writer of inodern times from whora we have any acientific data with regard to the Great Pyramid ie Mr. Juhn Greaves, Savilian Profeasor of Aatronomy in the Uni-

[^6]veraity of $0 x$ ford. At bis own private expense he left Iondon in the epring of 1637 for the special purpose of thoroughly exploring these ancient edifices, and in 1646 published big Pyramidogrophia, giving the results of his laborious observations and measurements, which are of particular worth in obtaining an accurate knowledge of this eubject. But he was soon followed by other explorers, French, Engliab, Dutch, Germans, and Italians.*

Special additions were made to the stock of Pyramid information by Nathaniel Davieon, British Consul at Algiera (1763), who resided tbree years in Egypt, frequently visited the Great Pyramid, discovered the first of those chnmbers of construction above the so-called King's Chamber, drew a profile of the original casing-atones, and made the first diagram of the suppoaed appearance of this pillar when it stood complete. $\dagger$

[^7]When Napolean was engaged with his military operations in Egypt (1799), the French sarants who accompanied his expedition also did important service in furnishing a knowledge of the Great Pyramid. They burveyed the ground. They determined the value of the location in trigonometrical relations. They found two of the "encastrements," or incisions in the rock, meant to serve as sockets for the original corner-stones of the foundation. Their observations and mostly very necurate measurements, with cuts, engravings, and descriptions of the Great Pyramid, were subsequently published, in large and elegant form.*

Very splendid contributions to our knowledge.of the suhject were made by Colonel (afterwards General) Howard Vyse in his three large royal octavo volumes, containing the resulta of seven montha' labor, with a hundred or more assistants, in exploring and measuring the

[^8]Pyramids, in 1837. It is he especially who, at the expense of a large fortune, laid the foundations for some of the most brilliant and important developments to be found in all the scientific world of our century. He reopened the rarged hole driven iuto the stupendous edifice by the semis-savages of Al Mamoun, and made some others himself, part of which were equally fruitless. He uncovered again the two indented sockets of the north lase corners. He diacovered and reopened the remarkable ventilnting tubes of the King's Cbouber. IIe cut a way through the masonry above that chamber, and found four other openings besides the one discovered by Davison. He found in those recesses various quarry-marks in red paint, proving that writing was known and practiced in the fourth Egyptian dynasty. Among these marks were the cartouches of the co-sovereign brothers who reigned at the time the Great Pyramill was built. He also found aome of the original casing-ttones atill fast in their places, as well as portions of a splendid pavement which once surrounded the edifice. In addition to these new discoveries be fully confirmed what had been ascertained before, and served to bring this marvellous structure with:n the sphere of modern scientific investi-
gation. Through him, Sir John Herachel eqpoused the belief that the Great Pyramid possesses a truly astronomical charucter, and that its arrow tubic entrance pointed to some polar star, from which the date of the building is determinable. At Vyse's instance this astronomer made the calculation, and found the pointing to indicate the same period of time which, on other and independent data, had been concluded as the period of the Grent Pyramid's building. And thus was laid the basis from which a new theory of this marvellous pillar has sprung.

## Tue Modern Scientific Theory.

Taking what had thus been produced with regard to the Great Pyramid, John Taylor (one of the firm of Taylor \& Hessey, publishers of the Lomdon Magazine, and subsequently of the firm of Taylor \& Wallace, publiabers to the Univeraity of London), undertook to wreatle with the questions: Why was this pyramid built? And who built it? Canvassing the whole problem in the light of bistory, religion, and acience, he came to some very surprising conclusions, involving an altogether new departure in Pyramid investigations, and enunciating a number of facts with regard to
the mathematical features of the Great Pyramid, which once were ridiculed, but are now generally admitted as demonstrably true. In 1859 be published a amall volume, in which he proposed "to recover a lost leaf in the world's history," and gave his processes and the results. Without baving seen the Great Pyranid, but on the basis of the facts recorded by others, be gave it as his theory and conviction that the real architects of this edifice were not Egyptians, hut men of quite another faith and branch of the buman family, who, by an impulse and commission from heaven, and by the special aid of the Most High, induced and superintended the erection of that mighty structure, as a memorial for long after times, to serve as a witness of inspiration, and of the truth and purposes of God, over against the falsities and corruptions of a degenerate and ever degenerating world. In other words, be claimed to find, in the shape, arrangements, measures, and various indicutions of the Great Pyramid, an intellectuality and zumerical knowledge of grand cosmical phenomena of earth and beavens, which neither Egypt nor any of the nations possessed, or could even understand, from a thousand years ago, back to the origin of nations,

This was a bold, atriking, and far-reaching presentation, and one well worthy of the nttention of the tbinkers of our age, both religious and pbilosophical. Very few, however, paid much attention to his vigorous little book. Yet the grounds on which he proceeded nnd the processes employed, were so purely within the domain of science, and hence so easy of decisive refutation if not true, that acientists could hardly be fair to their profession without some investigation of the matter. Sir John Herschel was certainly much impressed with some of the results and concluaions hrouglat out by Mr. Taylor, and also very powerfully used them in his papers on the standard of British measures, over against tbe falsely founded system of metres, originated by the French infidels and communists.

A few years after the appearance of Mr. Taylor's book, it arrested the attention and enlisted the interest of Prof. C. Piazzi Smyth, of Edinhurgh, Astronomer Royal for Scotlund, Having investigated the subject to some extent, he presented a paper to the Royal Society of Edinhurgh, in 1864, giving the results of his researches and calculations to test the truth of some of Mr. Thylor's startling presentationa, and setting forth his acquiescence in many of
the details, though on somewhat different grounds. These investigations and conclusions of Prof. Smyth were publisbed the amme year, in his book, Our Inheritance in the Great Pyramid, a new, revised, and enlarged edition of which was published in 1874. This book, in its revised form, is perhaps the best from which to get a full impression, within a limited space, of the nature and grounds of the modern scientific theory on the subject.
The better to satisfy himself, and in order to clear up bome matters of uncertainty in the case, Prof. Smyth, at bis own expense, went to Egypt, and epent the winter and spring of 1865, devoting the time to the work of testing, by the beat modern scientific applinnces, wbat othery bad recorded concerning this pyramid. To frcilitate bis operations, he and his brave wife took up their abode in some of the tombs in the vicinity, where they lived and worked from the firat of January to the end of April. The results of these self-denying labors were given to the public in three brilliant volumes, in 1867, entitled, Life and Work at the Great Pyrumid, with a sequel in the year following, On the Antiquity of Intellectual Man.
From the publication of these very valuable books, various discussions in learned societies
and the public prints followed; new investi. gators entered upon the subject; and many converts to the new theory were made. A number of able papers appeared, confirming and enlarging what bad previously been deduced, and fully supporting the acientifically grounded und growing belief that this venerable pillar has about it sumething more than a mere tomb for some rich and ambitious old Pharaoh, and something infinitely more than was ever in the power of the Egyptians to originate, or even to understand. In other words, that it was desigaed and erected under the special guidance and direction of God, and heara a sonewhat aimilar relation to the phys. ical universe which the Bible bears to the apiritual.

Upon first llush such a theory would seem to be the yery height of faunticism and nonsense. And so a few, in their oftended conceit and prejudice, rather than from any solid scientific reasons, have regarded it. As commonly, in all such cases, the power of conrse ridicule has heen hrought to hear against it; but thue far no candid and thorough aftempt has been made to overcome the many solid and outstanding evidences on which it rests. Goodsir, in his volume on Ethnic Inspiration, has
justly said, "The scientific aymbolism of that world's wonder now stands nearly diaclused to view, resting on its own independent basis of proof, which is not only vouched for, but defended by advocates undeniably competent to their work, and na yet cccupying inexpugnably their ground." Every attack upon it thus far bas resulted in such signal failure as the more to confirm it.

It is of course inpossible here to go into all the particulars, processes, nad scientific inductions on whicb this theory rests. Tbese are given, in all their surprising force, in the able original works to which I bave referred, and to which I direct all who wish to sift the matter thorougbly or inform themselves fully. Mathematicians and acientists will find enough there to call all their knowledge into play, and to occupy their inquiries and akill for as much time ns they may have to give. My office is of a much simpler and easier sort. A brief resume of the principal facts, to enable those who hear me to form some fair opinion of the matter, is all that I propose, feeling that if I can succeed in this, I shall have done something of worth in making known the wonders of wiedom so long ago treasured up in the Great Pyramid of Gizeh.

## Ter Vabiots Prramids.

There are numerous pyramids in Egypt. Including all sizes and forms, perhaps three dozen may still be found. They belong to different agea, from B.C. 2170 down to B.C. 1800. Externally, they all are more or less of the same general form. A few are not much inferior in dimensions, materials, and outward finish to the Great Pyramid itself. But there is one, the northernmost of the line, which has ever held the pre-minence, and which bas always been regarded with the greatest interest. The sacred books of the Hindoos speak of three pyramids in Egypt, and they describe tbis as "the golden mountain," and the other two as mountains of silver and less valuable material. By a sort of intuition, all nations and tongues unite in recognizing this one as The Greal Pyramid. It covers the most spnce. It occupies the most commanding position. It is built with most akill and perfection of workmanship. And its summit rises higher heavenward than that of any otber.
This greatest of the pyramids is also the oldest of them. Lepsius says," The builders of the Great Pyrumid seem to assert their right to form the comraencement of monumental
listory." "To the Pyramid of Cheops the first link of our whole monumental history is fastened immovably, not for Egyptian, but for universal history." Prof. Snıyth holda that " the world has no material and conteraporary record of intellectual man earlier tban the Great Pyramid." Beckett Denison agrees that this is "the earliest and largest of all the pyramids," Hales in his Analysis, Sharpe in his History of Egypt, Bunsen in his Egypt's Place in History, and the best authors in general, make the same representations. There is no evidence on earth, known to man, that ever a true pyramid was built before the erection of the Greal Pyramid of Gizeh.

Here, then, is a fact to start with which utterly confourds the ordinary laws in human affairs. The arte of man left to himself, never attuin perfection at once. At all times and in all countries, there is invariably a series of crude attempts and imperfect beginnings first, and thence a gradual advance from a leas perfect to a more complete. Styles of architecture do not spring into existence like Minerva from the brain of Jupiter, fullgrown and perfect from the start. But here all ordinary laws are reversed, and tbe classic dream finda reality. As with the beginning of our race,
so with the pyramida, the most perfect is first and what comer after is deteriorate. The Great Pyramid comes upon the scene and maintains its grand superiority forever, without any preceding type of its class whence the idea was evolved. Renan bays, "It has no archaic epoch." Oshurn says, "It burste upon us at once in the flower of its lighest perfection." It suddenly takes ita place in the world in all its mutchless magnificence, "without frther, without mother," and as clean apart from all evolution as if it had dropped down from the unknown heavens. We can no more account for its appearance in this fashion on ordinary principles than we can account for the being of Adam without a special Divine intervention.

This pyramid once in existence, it is not difficult to account for all the rest. Having been taught how to huild it, and with the grand model ever before them, inen could easily build more. But how to get the original with its transcendent superiority to all others is the trouhle. The theory of Mr. Taylor and Prof. Sunyth would admirably solve the riddle; hut apart from that, there is no knowledge of man by which it can be solved. People may guess and suppose; but they can tell us nothing.

The evidences also are, that the whole family of Egyptian pyramids, and there are no others, is manie up of mere blind and bungling imitations of the Great Pyramid. They take its general form, but they every one miss its intellectuality and take on one of their own. None of them bas any upper openings or chambers; and the reason is furnished in what Al Mamoun on making his forced entrance found in the Grent Pyramid, to wit, the fret that its upward passarge-way was stopped by its huilders, flled up, hidden, and then for the first time discovered. These upper openings, though the main features of the Great Pyramid's interior, were wholly unknown to the copyists, and hence were not copied. The downward passage and the aubterranean chamber were known, and could be inspected; hence these features appear in all the pyramidg. It would be difficult to conceive more conclusive internal evidences of inere imitation, or of the certainty that the Great Pyramid is the real original of all pyramids. All the rest are but vulgar and unmearing piles of stones in comparison with it.

Form and Proportions.
A building having a square base and its four
sides equally sloped inwards to a single poin: at the top is a pyramid. There may be other and various pyramidal forms, but they are not true pyramids. In stone architecture euch a figure requires the edifice to be solid, or mainly so, and can furnish very little internal space for any practical use. It is therefore $n$ style of building which is itself something peculiar and quite unfitted to any of the ordinary purposes for which man erects edifices.

But not all pyramida have the ame relative proportions or degree of slope in their sides. In this respect the Great Pyramid stands alone mmong all other pyramide or buildings on earth. Plato snys, that "God perpetually geometrizes," nind this pyramid presents a clear and solid geometric figure with all its proportions conformed to each other.

Science has frequently alluded to a certain triplicity or triunity of nature, assuming something of the character of a law of creation, and traceable as a sort of pervading qualogy of Providence. Poets, those close observers and portrayers of nature, beve likewise referred to it. The crust of the earth is composed of a grand triplicity of primary, secondary, and tertiary stratificutions. Comte bebeld the laws of mind as made up of sunernatural,
metaphysical, and positive stages in mental evolution. Burke thought he astw a parallel between mythology and geology, and classified the former according to the three stngea of the earth's formation. A modern chemist reduces all the properties of matter to attraction, repulsion, and vitality. And a lete attempt to .give "a basic outline of univeraology," comprises all things in unism, duism, and trinism. Without nccepting these thingsas gettled truths, they yet serve to show a primary something, which, to the most observant minds, hespeaks an original triplicity, putting itself forth as a rudimental law. And if the Great Pyramid was really intended to symbolize the universe, we would also expect to find in it some recognition of this triplicity or triunity. Accordingly we do find this to be the fundameatal figure of the Great Pyramid, which is at the same time the geometrical skeleton of the earth, if not also of the whole physical and spiritual universe.

It was a great achievement of our science to escertain that the earth is a revolving globe. But this spherity is the mere clothing of a mathematical figure to which it is formed. As a revolving body, the earth has an axis of station, that is, it makes all its revolutions in
one and the same unvarying direction, indicat ing a primary straight line through ite centre to its poles. Using this ns a base line, which it is in fact, and drawing two equal lines from the surface at the poles to the highest point of surface at the equator, the result is one of the simplest compound figures in geometry-a triungle-just what we have in the outline figure of the Great Pyramid, and in each of its four faces.

Examining this figure more closely, still other remarkable properties appear. Viewed as a triangle, if we square its hase line, as squared in fact in the Great Pyramid, and add together the lengths of the four sides, we have the exact equal of a circle drawn with the vertical height for a radius. In other words, we have here a figure of the framework of the earth, and that figure possessed of the proportion which is known to mathematicians as the $\pi$ proportion,-thus presenting a practical solution of that puzzling problem which has cracked so many mediæval and modern brains, to wit, the quadrature of the circle. Hence Jobn Taylor says of the builders of the Great Pyramid, that "they imagined the earth to be a sphere, and as they knew that the radius of a circle must bear a certain proportion to its
circumference, they built a four-aided pyramid of such a height in proportion to its base, that its perpendicular would be the radius of a aphere equal to the perimeter of the base."

The other pyramids have the same general form copied after tbis, but these mathematical proportions and signs of high intellectuality appear nowhere but in the Great Pyramid. And when Jomard sayb, "Tbe pyramida have preserved to us the certain type of the size of the terrestrial globe," he utters a great truth, but what is not true in any definite measure aeve of the Great Pyramid.

Pybamid Numbers.
The peculiar figure and shape of the Great Pyramid fixes a certain system of numbers. It has five corners : four equal corners at the base and one unique corner at the summit. Hence it has five sides; four equal triangular sides and the square under-side on which it stands. Here is an emphatic count of fives doubled into the convenient decimal. This count is so inherent and marked as to be a strong characteristic, calling for the number five, and multiples, powers and geometrical proportions of it, as loudly as stones can be made to speak.

From this also it would seem to have its name. Though different authors have sought to derive this word from the Greek, Arabic, and other sources, the evidence is rather that it came direct from the builders of the edifice, and was mennt to describe it in the common language then used in the country. The nearest to that language is the Coptic. And in the ancient Coptie, pyr means diuidion, the same as peres in Daniel's interpretation of the handwriting on the wall; and met means ten. Chevalier Bunsen, without thought of comthining them for the derivation of the word pyramid, gives these words separately and affixes to then these significations.* And putting them together-pyr-met-we have the name given to this structure. And that name, in the language of the ancientEgyptians, means the division of ten.

Accordingly a system of fiveness runs through the Great Pyramid and its measure references. Counting five times five courses of the masonry from the base upwards we are brought to the floor of the so-cailed Queen's Chamber. The measures of that chamher all answer to a standard of five times five inches.

[^9]It is characterized by a deep sunken niche in one of its walls, which niche is three times five feet high, consisting of five strongly marked stories, the topmost Give times five incbes across, and its inner edge just five times five inches from the perpendicular centre of the wall into which it is cut. So if we count five times five courses higher, or ten times five from the base, the last brings us on the floor of the King's Chamber, whose walls are composed of twenty times five stones, arranged in five horizontal courses. The base line of the lowest course is five inches below the level of the floor, and with these five incbes off, this course emhraces a space just ten ñve times the cubic sontents of tbe Coffer. Above the King's Chamber are five chambers of construction, and the Coffer itself has five solid external sides.

This intense fiveness could not have heen accidental, and likewise corresponds with the arrangements of God, hoth in nature and revelation. Note the fiveness of termination to eacb limb of the human body, the five senses, the five books of Moses, the twice five precepts of the Decalogue. But this is not all. Science now tells us that the diameter of the earth at the poles is five bundred millions of units, sbout the length of our inches. Five timea

Give of these units or inches is the twice ten millionth part of the earth's axis of rotation. Ten times ten of these units or inches counted for a day, when divided into the united lengthe of the Great Pyramid's four sides, give the exact number of days in the true year. As near na science has been able to determine the mean density of the earth (5.70), Gve cubic inches of it weighs just the fifty times fiftieth part of the Coffer's contents of water at a temperature of one-difth of the distance which the mercury rises from the freezing to the boilingpoint.

Nine isnnotbernumber very specially marked in the Grent Pyramid, particularly in ita sunward portions and tendencies. Its practical shaping is nine to ten. For every ten feet that ita corners retreat diagonally inwards in the process of building they rise upward or aunward nine feet.* At high noon the sun shines

[^10]on all five of ita corners and four of its sides, counting nine of its mort characteristic parts. The Grand Gailery is roofed with four times nine stonea, and the main chamber with exactly nine. And here again we have a nature reference which nations have expended millions to ascertain. The vertical height of the Great Pyramid multiplied by 10 to the 9th power ( $10^{\circ}$ ) tells the mean distance of the sun from the earth, that is one thousand million times tbe pyramid's height, or $91,840,000$ miles.

The sun-distance used to be put down by natronomy at nearly $96,000,000$ miles. Later computations, at the opposition of Mars in 1862 , reduced this estimate to between oinetyone and ninety-three millions. The results of

[^11]the observations of the transit of Venus in 1874 hnve confirmed these lower figures, making the limit of uncertainty to lie between ninety-one and ninety-two and a half millions, Taking the mean of the estimates as the best that modern science has been able to present, we have a very close agreement with the Great Pyramid's symbolizations. And when science has once definitely settled the point, there is now every indication that the figures will agree precisely with what was not only known to the architects of this pyramid, but was by them imperishably memorialized in stone more than 4000 years ago!

All this proves not only intelligent design on the part of theae buildera, but an acquaintance with nature, and a genius for the expression of nature's truths in the forms and measures of a plain, dimple, and enduring structure, which any less attainment than that , of our greatest living astronomers and bavants could not so much as understand.

## Size of the Great Prramid.

The opinion was given by Lepsius, and from him has been largely accepted as a law in Egyptian pyramid building, that ench king, when he came to the throne, began to excavate
a aubterranean chamber with an inclined par sage, which chamber was meant for his tomb; the first year he covered it with a few aquared blocks of atone, the next added more, and so continued till he died, leaving it to his successor to finish and close the edifice. Hence the size of each pyramid would depend upon the accident of the duration of the king's life. Perhaps it was so after pyranids came to be a frahion, though some long-lived kinga have only amall pyramids. But it is very certnin that the Great Pyramid did not grow in this way. Its whole character was calculated and determined beforehand. The drafts of its architects still exist, -graven in the rocks; as Job wished that his words might be in order to leat forever. There they are in the immediate vicinity of the great huilding, tbe projection of whose shape and features, without and within, they still show to every one who wishes to examine them. By them it ia proven that the whole structure in its angles and mathematical proportions was contemplated and designed from the start.* Besides, the subter-

[^12]
# ranean chamber of the Great Pyramid which this "law" would require to be finislied first 

dontinant anglea of the exterior of the Great Pytamid. To determine whether this idee was trus or not, I determined to meseure all the englea raiber carerully." "Muat happily, toc, ovary part of them which has to enker into the mearurement, atill eriat pimibly and tangibly; so that good painatakiag modern observation if perfectly sble of itself, either to prove or dieprove what has just been edvarced," i.e. their correspondence to the ungle of the foot of the Great Pyrumid.一" Life

${ }^{4}$ For beveral reasons I consider thase trenchen have been originally inciesed for instructing the masone in the eract ageular character of the verg mathematically formed building thay were eugaged on, end white the work wha in progreas, "-"Antiquity of Intellectual Kan, " p. 102.
"If you lake the Great Pyramid as it wat when in masonty prog reas or without jte final cating Blm and if from the centre of the then bute fou draw ita praportion r circle, tho conjoined exe of north and acuth ezimuth trenches will forma tangent to that circle at ils mot protuberant point in froat of the middle east eide. And further, if from the pointe coward the north and south extremitieg of the eaft eide of bage where the reirele culs into the area of the base you draer rectangular offeth from that aide ematward, thers offets will be found to deling the places of the admirably squate cul outer ende of both norih and south azimuth trenches with as mueh accuracy as the pretent elending and broken eidan of the pyramid edmit of th their measarementr"一 Ka. W. Prteic, qualed by Prof. Byyti.

Besides these trenchea there je gleo a sybtem of inclited dunnela cut into the rock of the hill, which aome hape taken to be the remaina or the comnencementof another pyramid of amall gize. But Prof. gmyth found them arranged on the arae prinejplea contained in the Groat Pyramid, and only in it He guyb of them: "There is a lang descending entrance passage, an uprard and opposite rising parage from the uiddle of that like the Great Pyramid's frat werading pasage; then the
is just that part which never whe finished at all. It is only half cut out, -a mere pit without a bottom. Herodotua also gathered from the Egyptians themselves that ten yenra were spent in building preparatory works, which are hardly less remarkable and elaborate than the pyramid itself, end that everything was organized on an immense scale, keeping 100,000 men continunlly at work, relaying them every three months. Furthermore, all the searchings into this pyramid have failed to reveal any signs of the patching of one year's work to that of another, or any arrangements for such a contingency as the possible death of the king before tbe work was complete. On the contrary, everything argues one continuous

[^13]and fore-calculated job, evenly carried through from beginning to end, just as a farmer would build his barn or $\mathfrak{a}$ baker his oven. Hence if there is anything in Lepsius's "lnw of pyramid building," the Great Pyramid never came under it, but received its being and dimensions from a foregoing plan of the whole, pursued from commencement to completion without interraption or any thougbt of it.

An immense umount of careful endeavor has been expended by different men at different periods to ascertain the precise measurements of the Great Pyramid's base sides. And since the discovery of the corner sockets it would seem as if there should be no difficulty in arriving at exact data on that point. But the length to be measured is so great, and the mounds of rubbisb lying between the points from which the measure is to be taken are so immense and irregular, that absolute certainty has not been reached and cannot be till some rich man, society, or government performs the work of removing the impediments and opens a clear way from corner to corner. Tbe measurements thus far made from these sockets hy scientific men give us a mean of nine thousand one hundred and forty of our inches as the length of either of the Great Pyramid's
four sides, that is, a, fraction over seven hundred and aixty-one and a half feet, or nearly one-bizth of a mile.*

With this measure for the base of the sides, and the angle of $51^{\circ} 51^{\prime} 14^{\prime \prime}$ for their alope, the lines intersect in a point of perpendicular altitude five thousand eight hundred and nineteen inches from the level of the pavement discovered by Colonel Vyse. But there are other whys of ascertaining the beight. By the berometer, by trigonometry, and by the retual measurement of the heights of the two bun-

[^14]dred and two remaining courses of the masonry, the elevation to the present plateau at tho top can be taken. And by eight of the most distinguished measurera who have performed the operation, from Jomard and Cecile to Aiton and Inglis, the mean comes out five thousand four hundred and forty inches. Prof. Smyth mankes it five thousand four hundred and forty-five. Eacb side of the present summit area is four hundred inches. Adding one hundred inches, the thickness of the casing stones, to each side, the square would be six hundred inches on each outer line. At the angle of $51^{\circ} 51^{\prime} 14^{\prime \prime}$ this would give a vertical beight of three hundred and eighty-two inches, yielding $5440+382=5822$ of our inches as the full original height of the Great Pyramid. The same estimate is confirmed on other and independent methods of compatation; thus also confirming the estimate of the length of the base eides, the one process yielding within tbree inches of what is reached by the other.

Within n a arrow margin of uncertainty in which actual measurement always differs from ahsolute mathematical exactness, we may therefore take it as reasonably aettled that the Great Pyramid'e sides are each nine thousand one hundred and forty of our inches long, and
alope upward to a point originally five thousand eight bundred and twenty of the same inches in perpendicular height above the line of the pavement below. This gives us the vastest and highest stone building ever erected by human hands.*

Osburn saya, "its long abadow darkens the fields of Gizeh as the day declines," and that "when the spectator can obtain a distinct conception of ite vastness no words cen describe the overwhelming sense of it wbich rushes upon his mind. He feels oppressed and staggers beneath a load," to think that anch a mountain was piled by the handiwork of man.

## Standard of Linear Measure.

From these measurements of size result the * proportion which is now admitted to be practically exhibited in this pyramid, whether

[^15]there by nccident or by intention, The width is $\frac{\pi}{3}$ or $1 / 7$ of the height, and each face is almost exactly the square of the height.

From such high acience we are also led to expect the record of some definite standard of measure, which every one would naturally wish to learn of from auch wonderful architects and geometricians. Standards of measure are alao just now a subject of special interest. There bas come a singular disturhance and doubt on the part of legislators and savants as to whet ougbt to be the ultimate reference or basis for all measures of length. The nations are inquiring, and nobody aeems to know on what to rest. The French metres are unfortunately being urged by many as the most scientific known.

Nearly one hundred yeara ago the French people, in their first revolution, made na attempt to abolish alike the Christian religion and the bereditary weighte and measures of all nations, seeking to supplant the former hy a worship of philosophy and liberty, and the latter by a new scheme of metres. For their unit and standard of length they took the quedrant of the earth's surface at the particular meridian of Paris, divided it into ten million parts and so obtained the metre of 39.371 inches now
so highly eulogized. To say nothing of the origin and motive of such a standard, the science that is claimed for it is of no high character. It has the misfortune of taking a curved line drawn on the earth's surface, and that at a perticular meridian no more fitting than any other, ingtead of some strnight line invariahle for all the earth. Besides, in eatimating for the earth's elliptic meridian at Paris these atheistic savants, as now proven, miscalculated to the extent of one part in every five thousand three hundred too little, and so on their own basis their lauded unit of length is not scientifically true. Sir John Herschel rightfully pronounces it " the newest and worst measure in the world," and Beckett Denison justly regards it as an "inconvenient, inaccurate, and montridable measure." What men need is a universal standard afforded by nature, and serving alike for all mankind. For auch a standard M. Callet, in 1795 , in his book ou Iogarithma, auggested the axis of the earth, the even ten millionth to be taken as the standard with which to compare all distances and lengths. It was a grand thought, far in advance of all modern science on the subject. The axis of the earth has every philosophic and asthetic reason in its favor as the great
terrestrial reference for all our linear measurements. It is a atraight line, the only unvarying straight line which terrestrial nature affords, and the same for all localities and all time. It is the base line to which the earth itself is framed. And as remarked by Sir John Herschel, so long as the human mind continues human and retains a power of geometry, such a line will be held of far superior importance to any part or degree of a circumference. And if any azis is to be chosen on which to found a scientific unit, the nature of things gives an absolute and indefeasible preference to the polar axis Now this is precisely the standard of reference for linear measure which the Great Pyramid places before us .

The polar diameter of the earth, according to the best science, is $500,500,000$ of our inches, within so small a limit of possible error as to make but little difference in so multitudinous a subdivision. The British ordnance survey gives the results of two methods of computation, one of which makes it $500,428,296$, and the other $500,522,904$ of our inches, the former being considered as having the preponderanct in weight. The mean of the two
would therefore be close about five hundred millions five bundred thousend of our inches; and this is what Becket Denison in bis Astronomy gives as the result of the most reliable modern calculations.

Tuking the even five handred millionth part of this, we would have 1.001 of our inches. Suppose, then, that we free this even diviaion of the earth's polar diameter from all fractions, and call the Give hondred millionth part of that axis one inch. We would thue have a low and convenient unit of length, about half a fine luar's breadth longer than our present inch So complete and even a deduction from the polar axis of the whole earth would certainly be the grandert, the most rational, and the most natoral standard of length to he found in or on our globe. Twenty-five of these inches, that is, 25.025 of our inclies, would then serve for a cuhit or longer standard, evenly deduced, which, multiplied hy $10^{7}$, would tell the exsct distance from the centre of the earth to either pole. It would he the ten millionth part of the semiaxie of the globe we inhabit. And what is more, it would be the exact sacred oubit which God himself gave to Hia people of old, and
by which He directed all the aacred conatruc. tions and their appurtenances to be formed.*

And these sublime earth conmensurating standards of length are precisely the ones set forth in the Great Pyramid. Whether the practical working measure was in general the Erypto-Babylonian cubit of about twenty to twenty-one of our inches or any other makes no difference. Tbe evidences are clear that $a$ cubit of 25.025 of our inches, or one witbin a very slight fraction of that length, and an inch which is the five hundred millionth part of the earth's polar diameter, were in the minds of the architects, and meant by them to be most aigaificantly emphasized.

[^16]It is a noble and fitting thought that as the existence of an axis of rotation in the earth makes the days, the grand standard of length founded on that axis should count them. And so it is in the Great Pyramid. This naturederived cnbit is contained in each side of this edifice just as many times as there are days in a year! This simple fact is of itself an invincible demonstration that these builders had such a length in mind as their greatest and most sacred standard and enumerator of lineur mesare. But it is also specinlly singled out and recorded elsewhere in the edifice. It is the top width of the grand niche in the Queen's Chamber, and the distance between the higbest inner edge of that niche and the vertical centre of the chamber. It is thus set before the eye as if to teach all to note its existence and to search for its bidden use and meaning in the symbolizations.

As to the inch or the one-twenty-fifth of this measure, being an integer of the grand day counter, it, too, is indicated in the right place and in the right way. It is contained separately and independently in the entire perimeter of the Grand Pyramid's base, just one hundred times for each day of the year. As the low unit of count in measure, it is also the repre-
sentative of a year in the reckoning of the pasarge floor-lines na charts of history, as also in the diagonals of the pyramid's base taken as a mensure of the precessional cycle. It is likewise speciully exhibited in connection with the cubit in the singular boss of the suspended "granite leaf" in the anteroom to the King's Chamber.* Besides, when multiplied by $10^{7+14}$ it serves to tell in round decimala the distance through space which the earth travels in each complete revolution on ite axis, that is $100,000,000,000$ inches.

A standurd of length messure is thus exhibited which fita with grand evenoess to nature in her great facte, but no less beautifully with what is common and homely. We used to be tnught that the inch is made up of so many

[^17]barleycorns. That reference, I believe, has been expunged from our arithmetic tables, because our mathematicians have lost the knowledge and meaning of our hereditary unit of length. But such is the fact, which any one can test for himself, that if we start with the average length of the graius from which man geta his bread, or with the average breadth of a man's thumb, length of arm, or reach of step in easy walking, everything comes out closely even with these earth commensurated and Divinely approved standards of length, and with these alone.

## Weiget and Capacity Measure.

And as these great old architects measured the earth, so they alao weighed it. As nearly as can be computed, their pyramid is the even one thousand billionth part of the weight of this whole earth-hall of land and sea. The gravity of the entire mass of what they built needs only to be multiplied by $10^{3 \times 3}$ to indicate the sum of the gravity of the entire mass of the globe we inbabit.

There has been much effort expended by modern science to find out the mean density or specific gravity of the earth, without exactly settling the problem. The beat experiments
make it between 5.316 and 6.565 times the weight of water at the medium temperature of $68^{\circ}$ Fahrenheit. The Great Pyramid makea it 5.70 , which is almost exactly the mean of the best five experiments ever made.*

A further memorial of the same is furnished in the Coffer of the King's Chamber, in whose structure the same $\pi$ proportions of the pyramid itself reappear in another form. The


It thus appeare that the pyramid's fgurs fur the earth's density is much nearer to the raein of theorperiments than the experimenta ura to cach other,

Computing the earth's bulk at a meang gravity 6.7 times that of water, recording to the calealetion made by Mr. Wm. Pelrie, of Lundon, the 回guras atand thus:

Pytamid's mase in tonas, $6,272,600$.
Earth's muss in tons, $\quad 5,271,000,000,000,000,000,000$.
The necurate calculation of such immense masse of metter mut necesarily be very rough; bat the results comn out evenly unoteg to ghuw that 6.70 is the proper hgure for tho pyramidie estimate of the mann density of the oarih, end that the pyranid wos meant to be of euch weight that it ahould be to the whole weight of the gerth in 1 to $10^{4}$.
interanl capacity of that Coffer by the nicoat possible computations is seventy-one thousand two hundred and fifty cubic pyramid or earth-commensurated inches. The only intelligible reason for that particular capacily is to be found in the combination of a capacity and weight measure standurd, baving reference to the size and gravity of the earth, with that gravity computed at 5.7. Even the longunobserved little irregularities of that Coffer come in as a necessary modifying element to neet precisely the earth reference formula. On the pyramid system of fives, $50^{3}$ enrth-commensurnted inches multiplied by the earth's specific gravity and divided by 10 , represent with close exactness the Coffer's interior space.

To the reality of these earth references at the valuations given, this Coffer comes in as a seal, and at the same time furnishes a grand atandard of united weigbt and capacity measure. At the rate of 5.7 for the mean density of the earth, the Coffer's contents of water at $68^{\circ}$ Fahrenheit would be equal to twelve thousand five hundred cubic inches of the body of the earth. Dividing this into two thousand five hundred equal parts for a arnall fraction in the dominant pyramid number we have an even reault equal to five cubic inches
of the earth's mean density, which would be the pyramid or earth-commensurated pound, which is, within a small fraction, the same as our common avoirrlupois pound, equal in weight to a pint, $5 \times 5.7$ cubic inches of water at a temperature of $68^{\circ}$ Fahrenheit.

The Coffrr and the Are of tee Covenant.
The only article of furniture in all the Great Pyramid is this Coffer in the King's Chamber. At Mamoun found it a lidless, empty box, cut from a solid block of red granite, and polished within and without. In shape it is an ohlong rectangular trough, without inseription or ornament, and of such size that it could not possibly have been taken in or out of its place since the pyramid was built. Its proportions are all geometrical. Its sides and bottom are cubically identical with its internal space. The length of its two sides to its height is as a circle to its dinmeter. Its exterior volume is just twice the dimensions of its bottom, and its whole measure is just the fiftieth part of the size of the chamber in which it stands. Its internal space is just four times the measure of an English "quarter" of wheat. By ita contents measure it also confirms Sir Isanc Newton's determination of the length of the
sacred cubit of twenty-five earth-commensurated inches. The holy Ark of the Tabernacle and the Temple, according to the Scripturee, was two and a helf cubite long, and one and a half hroad and high. This must be outaide measure, as the records speak of height and not of depth. With twenty-five earth-commensurated inches to a cuhit, and allowing 1.8 of these inches for the thickness of the boards, its internal spuce would be seventy-one thouand two hundred and eighty-two of the same cuhic inches, or within thirty-two of the number of such cubic inches in the capacity measure of the pyramid Coffer. Or allowing 1.75 inches for the thickness of the sides and ends and two inches for the bottom, the inner cubical contents would be seventy-one thonkand two hundred and thirteen inches, or within thirtyseven of the Coffer. The mean of these two eatimates, which must include all rensonable suppositions for the carpentry of the ark, would be eeventy-one thousend two hundred and forty-eight cubic inches, which is within two inches of the best computation of the internal dimensions of the pyramid Coffer. That they should be thus alike in internal measure, the dimensions of the one having been specially luid down by God himself, is very remark-
able, and that the two should thus mutually sustain each other in the recognition of one and the sume earth-commeusurated cubit, is both striking and significant. Nay, using this arme earth-commensurated cubil rs identical with the sacred cubit, the further result appenrs that the Jewish laver and the Ark of the Tabernncle were the same in capacity mensure with the pyramid's Coffer, and tbat Solomon's molten sen was just fifty times the capacity of either of these and exactly equal in interior cubic space with the King's Chamber itself.

## Temperature.

As the Great Pyramid stands on the line which equally dividea tile surface of the northern hemisplere, there is at ouce a close approacb of its climate to the mean ternperature of all the earth's surface, at least of every habitable land and navigable sea. According to the French savante, hy observations both in and outside of the Great Pyramid, that temperature is about $68^{\circ}$ Fabrenheit. A permanent and unvarying record of this temperature is maintained in the pyramid's granite cbamber, which is so buried in masonry as not to be affected by external changes, and furnished with a syatem of ventilating tubes to keep every-
thing exactly normal within. This degree of temperature is exactly one-fifth of the distance which ruercury rises in the tube between the freezing and boiling-points of water, and furnishes the basis for a complete nature-adjusted pyramid syatem of thermal measure. Dividing this one-ifith by the standard of fifty (the room in which the index of temperature is arranged being the chamber of fifty), we have the even two hundred and fifty for the degrees between the two notable points of nature marked by the freezing and boiling of common water. Multiplying this by four, say the pyramid's four sides, we are brought to another great natural heat-mark, namely, that at which heat begins to give forth ligbt, and iron, the commonest of metals, becomes red. Then multiplying again by five, say by the number of the pyramid's five corners, the reault comes out evenly at noother grand nature-marked point of thermal measure, namely, that at which heat sbows whiteness, and platinum, the densest and most refractory of metals, melts.

## A Metrological Monuhent.

Thus the Great Pyramid proves itself abundantly competent to determine on a natural and most scicntific basis all measurès of length,
weight, capacity, and heat. Even the degreea in the circle if arranged on the pyramid numluers, sny one thousnad degrees instead of the fractional Babylonian three hundred and aixty, some think, would be vastly more natural and ensy thon it is. This would divide the quadrant into the convenient two hundred and fifty with even tenths for minutes and seconds, whilst it would at the snme time barmoniously commensurate with navigation and itinerary measures of knots and miles, into which it is now so troublesome to translate from the indications of tlje sestant.

There would seem, therefore, to be notbing wanting in this "mighty monmment of hoar untiquity for the formation of a metrical systom the most universal in its scope, the most scientifically founded in its utandards, tbe most bappily interrelated, and the most easy in its common use that ever was presented to the contemplation of man or that can be employed for our earth purposes. And it is devoutly to be wished, if the present ngitatiou of the buman mind with regard to atandards and systems of measure is to result in any changes for the nations, that they should be in the liue of what Providence has thus aet before mankind. Great Britain, the United States,
the German Empire, the Scindinavian Kingdome, and other principalitice and countries, have this system already nlmost exact in some departmente, descended to them they know not from whence, and the correction of what is faulty would be attended with infinitely less disconfort than the introduction of French metres, conceived in rebellion against the common faith and order of the Christian world. We would then luave the higb consciousness of possessing a aystem of metrology the most ancient and the most self-consistent in the world, and one in most profound accord with nature as God made it, if not communicated hy the great God of nature by direct inapiration from His eternal wiedom.*

[^18]
## The Pybamid's Astronomy.

Nor are we any less impressed with the aingular wonderfuluess of this ancient pillar, when we come to look more directly at its astronomy.

Figuring the framework of the earth as a triangle formed from a line of diameter, and referring to an axis for a basis for this triangle as well us a grand standurd of anensure, and that triangle being greater in vertical height by
weight of whter at $68^{\circ}$ Fahrenbeit ( $60^{\circ}$ pyramid), barometricul pressure 30 inches of preceding table. Hence $6 \times E .7$ ( $=28.5$ ) gabic incbes of this water, being tho PBouth part of the cubie contente of the Coffer, give us a pyramid pint =a pyramid poured; the pint being 0.987 of the old Hritish wine pint, and 0.896 of the old French "chopine;" and the pound 1.028 of tho present pound evoirdupois, and 1.060 of the old French "t poide de marc." Tbia pound ur pint evenily dividea by tona to gralan and drops, and multiplies eveply by $10,2,5$, and 4 to tona end chaldrons. The correlation would then be 1 drop $=1$ grain, 1 pint $=1$ pound, $1 \mathrm{cth}=1$ busbel, ote.

11I. Therital Meabure. The grand etanderd for thia le the nown unupernture of the earth in which man morks Fith most ease and cumfurt, $08^{\circ}$ Fahrenhail, $20^{\circ}$ Dentigrade.

> 0, zero, the freezing-point of weler.
> B0, misn umperutura of the whole asth.
> 250, in iliung-point of water.
> 1000, the point nt whieb brat reddens frod. 6000, white heat, at which platinum melta.
duplication than would equal the width of it base, the earth is necemsarily contemplated ns a spheroid-a globe thicker at the equator then at the poles-just as all correct astronomy now represents it. Modern science ascriben the discovery of this spherity of the earth to Thales, six bundred years before Cbrist; but lere it is more perfectly represented than Thales ever knew, more than fifteen hundred yenrs before Thales was born.

A fixed axis would also seem to imply the idea of rotatory motion." And the making of the sides of the pyramid to record an even fraction of the earth's axis of rotation just as many times as there are days in the year, proves that these builders had an idea of both motions of the earth, and a knowledge of the number of times it revolves oud its own axis in making ite annual revolution around the sun. This latter motion they also further symbolized by the inches or fractions of twentyfive in their great standard of length, just one hundred of which to a day, for the number of days in the year, are contained in the perimeter of the pyramid's base. If any one within historic times prior to Copernicus and Galileo really understood this feature of our globe, ir. certainly was not well known nor much be-
lieved till after these men had lived; and yet, here it is distinctly and truly symbolized more than thirty-five bundred yenrs before their time.

These ancient architects also knew where to find the poles of the earth, siace they were able to determine latitude and what degree of latitude marks the half-way of the world'y aurface between the equator and the poles. This they prove to us by having built their pyramid on that line of latitude, namely, on the thirtieth north. It is, in fact, a slight fraction south of that line as now estimated, but obviously intended to iudicate that degree, since they built as closely to the northern brink of the bill ns it was possible to go and yet secure a permanent foundation for their work. Nor is it much further from that line than the ringes of probable error in the best scientific calculations. By three distinct processes (by differences of zenith distance, by absolute zenith distances, and by transita in prime verticle) lately made to determine precisely tbe latitude of Mt. Agarnenticus Station in Maine, each differed from the others, and the determination could not be made any nearer than somewhere within the fourth of a hundred parts of a second. This was close
enough for all practical purposes, but shows that the best science cannot be precisely exact on the aubject And yet, here we have a determination made more tban four thousend yeara ago, in fact almost within the limit of error of the best scientific possibilities, and with tbe plain intimation of a better knowledge which had to be sacrificed to the requirementa for a fitting basis to a brilding intended to last to the end of time.
These men bave thus left un the memorial of a remarkable geodesy, which is further exbibited in the fact that they not only put their pillar in the very centre of Egypt, hut on the pivotal balance-point of the entire land distribution over the face of the whole earth. A glance at any univeraal map makes this apparent, whilst we look in vain for another point on all the globe which so naturally and evenly marks the centre of equation for all inbabited land surface. There is here a messurement or consciousness of the extent and proportional relations and diatribution of the earth's continents and islands, auch as modern science has not yet furnished or even attempted to give.

There is perbnps no much better test of a sound, practical astronomy, than to be able to determine truly the four cardinal points. A
very simple and easy thing most persons would think it, but not so easy when brought to the test. The compass alone never can be depended on, except in a general way. The attempta of men to orient truly, even with the aid of acience, have shown constant inaccuracy. It used to be thougbt a great matter to have churches and cathedrala huilt exretly enat and west; but of all so intended acarcely one has been found that does not incline eitber to the north or the south of the line meant to be followed. It is the same even with huildings erected specially for astronomical purpose. Tycho Brahe's celehrated Uranibourg observatory is faulty in orientation to five mimutes of a degree. The Greeks in the height of their glory could not find the cardinal pointa astronomically within eight degrees. But the huilders of the Great Pyramid, out in the Lybian desert, with no guide or landmark hut the naked stars, were ahle to orient their structure so exactly that the science of the wisest Athenian aages, eighteen hundred years alterwards, was seventy times, and the observatory of Uranibourg nearly four times, further out of the way than it is.

One of the most curious and important problems of astronomy is the aun distance, at

Which men have labored so long and so carnestly without being able to solve it eloser than witbin a limit of error embracing a million and a half of miles. That distance, however, is emphatically and definitely pronounced in the Great Pyramid, by its 10 and 9 of practical erection, as the even $10^{\circ}$ times its own beight, which is about the mean between the highest and lowest figures which the most recent ohservations have set down as the best results science has reached on this point.

## The Pyramid's Cilronology.

Time reckonings belong to the snme subject. Things can have no place or being without time. And ns measures of time are mere notations of motions in the clockwork of the universe, clironology and astronomy neccesarily go together. And as the Great Pyramid memorializes the one, the other must also be embraced. Memorializing the revolutions of the enrth on its own axie and around the sun, it thus at the same time fixes its notation of days and the year.

But there is another observahle movement going on in tbe universe of a much grander and wider range, and of special importance with regard to chronology. It forms a accred
clock, whose face is the sky, and from which we may read bnckwards or forwerds for thousands on thnusands of years without the possibility of confusion, the same as we read the hours and minutes on a timepiece. It is what astronomers call "the precession of the equinoкes."

There is a twofold year, one called the siderial year, or year of the stars, and the other the yenr of the sun or seasons, the equinoctial year. The former is $n$ frnction longer than the latter. That is to say, the equinoxes in our ordinary practical year come a little enrlier every time than the siderinl time. This precedence in the equinoctial presentations amounta to about fifty secouds each year, and is hence called the precession of the equinoxes. It in really a retardation in the time of the rising and setting of the stars, by which they come about fifly seconds later every year. It was Hipparchus, about one hundred and fifty years before Chriat, who first noted this within bistoric times; and since his day the rising and setting of the stars, as compnred with the equinoctial or common year, has fallen back about thirty degrees from what their time then was. At this rate of retardation it takes about nine and a half millions of our days or about
twenty-five thousand eight hundred and aixty. eight of our years for this rising and setting to come back agnin to the exact point at which we begin the calculation. We thus have a great astronomical cycle, less than a fourth of which has pasaed since man whs placad upon the earth. It furnishes a singularly valuable means of noting and determining remote dates. Knowing the relative places of the stara which most plainly mark this cycle, we con tell exactly bow they stood in any year or date aince time began; and knowing how they stood at the time of any given event, we can thus calculate the precise year almost to the day and hour in which that event took place.

Now if the Grent Pyramid was meant to give us a aymbulization of the physical universe, this grand year could not be overlooked, though acience has been so long in finding it out. Nor has it been overlooked. It is all here plainly enough to be traced, just at the pince and in the forme which we might expest. It is the greatest of nature's time-cycles, and its years would naturally be signified in the pyramid's loweat unita of measure in the longest lines within the circle of ite perimeter on which we read the days and years. The two diagonals of the Great Pyramid's baee, taken
together, measure just as many inches as this cyele has years.*

It has only been since the times of Tycho Brahe that astronomers began to have any assurance in determining the leagth of this period. The latest and closest calculations by Bessel make it twenty-five thousand eight hundred and sixtyeight years, which is the sum of incbes in the diagonal menures of this pyranid's bnse, more acenrately given than it was known when Newton and Hation wrote. It has been thought to weaken the idea of intention on the part of the architects thus to aymibolize this cycle, since the measure of the diagonals is necessarily resultant from the leagtbs of the sides. But this interdependence of the diagonals and equare in the pyramid's count of days, years, and the grand cycle of years, only proves that God has so constituted the motions of the henvenly bodies that a correct aymbolization of one true count of anture involves the other, and that the

[^19]mind which governed in the framing of the symbol was conscious of the fact.

It is by means of this cycle, in connection with its star-pointinge, that the Great Pyramid also telis the date of its erection. Sir John Herachel in 1839, assuming that its long, narrow, polished tubular entrance passage was meant to be levelled at a polar atar, began to calculate back with what data he had to find the time when such a star was looking down that tube from the northern henvens. Nor did he fail to find une answering the conditions near about the time rasigned by other methods is the prabable date at which the Great Pyramid was built. Closer determinations of tbe exact pointings of the grand tube, along with other data, enabled other astronomers to repeat the calculation with more determinate results, fixing upon the year two thousand one hundred and seventy before Christ, as that in which this tube pointed to a Draconis, the then pole star, at its lower culmination, at the same time that the Pleiades, particularly Alcyone, the centre of the group, were on the amme meridian above. And as this was a mark in the heavens which could not occur again for more tban twenty-five thousna years from that time, and whs itself very extraordinary, it has been
nccepted ns uneant to be the sign of the date of the building of the Great Pyrnmid.

But what is thus astronomically made out is surprisingly corroborated in another way. These low tubular passage-ways prove themselves to be time charta sliso. They symbolize serolls of human history as well as point out stars, and the notations in the one answer exactly to the other. The inch as a unit for a year also appers in theae avenues. The entrance tube begins a record with the dispersion after the flood, and dates from the formation of nations. The history is a downward one under a dragon star toward a bottomless pit. Following this decline for about one thousnud inches, which denote years, we reach the first upward passage. At that date the children of Israel, by apecinl interposition of God, began their national economy and history. Following this nscending passage fifteen hundred and forty-two inches, the number of years from the Exodus of Iarael to the birth of Chriat, the last incla brings us to the beginning of the Grand Gallery, which aublimely symbolizes our Chriatian dispensntion. Counting hack, then, from the begianing of this gallery, that is, from the birth of Christ, 1542 inches to the entrance passige, and then
ap the entrance pussage 628 inches more ( $1542+628$ making 2170 , the astronomical date of the pyramid's building), at the precine point we find $n$ distinct and beautifully cut line ruled into the stone siden of the prassage from top to bottom, put there by the builders of the edifice.*

And that these lines were meant to mark tbe time of the Grent Pyramid's erection, the indication is distinctly given. The joinings of the stones of wbich the sides of this passage are built are all at right angles with its incline, except in two instances. The exceptions are the first two joints preceding these lines.

[^20]These, instead of being at right anglea with the passage, are vertical, a figure of speech in stone plainly indicative of lifting up or building. And immediately after this signifying of the process of erection, comes these thin, fine, and beautiful lines, just two thouannd one hundred and seventy inches from the beginning of the Grand Gallery, which, as the begioning of our diapensation would be the time of Christ's birth.

Thus, then, by a double method, each equally verifiable and distinct, and the one answering exactly to the other, the Great Pyramid tella its own nge in time-marks as unmistakable as they are true to the mysteries of the sky and to the succession of events and dispensations on the earth.

And in the same way this remarkable pillar seems also to indicate the true date of the flood. If we count back from the date of ith erection six hundred and thirty years, and inquire into the atar-markinge with regard to the precessional cycle at that period, we find the same pole star a Draconis looking down that same entrance passage as at the time of the building, but then Aquarius, the wuterman, instead of the Pleiades is on the meridian above, the line crossing the very mouth of the vessel
whence the mighty strenm is issuing. This could hardly have been without the knowledge of the designer of this edifice, and presenta a very grand and remarkable time-mark. Can nny one fail to have suggested to him what it indicates? All nations have preacrved the tradition of it. The Scriptures refer to it again and again in the Old Teatament and in the New. And the names and pictures of the constellations, as they still stand in our nlmanacs, unalterably point back to it. It is the great deluge of Noab's time, which the Great Pyramid thas locates chronologically at a point within a few years of the mean of the datea given for that event in the two different versiona of the Scriptures, the Hebrew and the Septuagint, to wit, two thousand eight hundred years before Christ, and six hundred and thirty years before the building of the pyramid itself.

## Septenaries and Sabeaths.

But tíme reckonings demnnd some special syatem of smaller frnctions wbich cannot be made by mere decades, tens, or hundreds. The year and the day are such distinct and ernphatic units of nature that man ia compelled to observe them in his notations, and they will
not subdivide or multiply into eacb other by even decimals. The French savants tried it, but utterly failed, and after all their efforts were compelled to fall back upon the old week of seven days, which God himself ordained from the beginning of the world as the easiest and most practical system of ordinary time commensuration. We would therefore expect the Great Pyramid as a great symbol of nature to have some reference to this also. And in spite of its intense fiveness, "it dues not fail to present this easier and sacredly approved division of days into weeks of sevens. Having made so grand a reference to the Pleiades, or the seven stars, the elemental grouping of sevens at once comes in. Hence, the Grand Gallery is seven times the average height of the other passages, and its sides are built of seven overlapping stone courses ou either side. So the passage which leads under it to the socalled Queeu's Chamber has a section distinctly thougb differently marked off at its ends, either of which is the one-seventh of that passage's entire length. A septenary system is thus recognized and indicated.

But it is not simply septenary, but likewise sabbatic, at least as respects the Queen's Chamber and the way to it. There is a seventh
marked off from the six, and specially emphasized. The last seventh of the horizontal way to that chamber is deeply indented in the floor, so as to make the passage there about one-third higher than anywhere else. This alone would be decisive. But the chamber thus approached through a sabbatic avenue is itself the culmination of a sabbatic system. By reason of its peaked and two-sided ceiling it is a sevensided room; and the amount of cubic space thus divided off above the square at the top is the higb seventh of the cubic space contained ahove the distinctly marked base line which runs around the room at the height of the parsage conducting into it. It is thus a completed sabbatism founded on a sabbatism in the way by which it is approached. We thus have all the features of the Hebrew sahhatic system emphatically pronounced and most remarkably built into the rocky structure of this pyramid more than six hundred years before Moses and the giving of the law,-a system of which the Gentiles as such knew little or notbing, though practically observed by the Creator himself in the great week in which the world was made. And by this intense sabbatism we are doubtless to identify this part of the pyramid with the Jew, the
same as we identify the Grand Gallory with the Christinn dispensation.

## Tae Centhe of the Universe.

But there is a yet grander thought embodied in this wonderful structure. Of its five points, there is one of special pre-eminence, in which all its sides and upward exterior lines terminate. It is the summit corner, which lifts its solemn index-finger to the sun at middny, and hy its distance from the bnse tells the mean distance of that sun from the enrth. And if we go hock to the date which the pyramid gives itself, and look for what that finger pointed to at midnight, we find a far sublimer indication.

Science has at last discovered that the sun is not a dead centre, with planets and cometa wheeling about it but itself' atationary. It is now ascertained that the sun also is in motion, carrying with it its splendid retinue of comets, planets, its satellites and theirs, around some other and vastly mightier centre. Astronomersare not yet fully agreed us to what or where that centre is. Some, however, believe that they lave found the direction of it to be the Pleiades, and particulnrly Alcyone, the central one of the renowned Pleitic stars. To the distinguished German estronomer, Prof. J. H.

Maedler, belonge the bonor of baving made this discovery. Alcyone, thed, as fir me science has been able to perceive, would seem to be "the midnight throne" in wbich the whole system of gravitation has its central seat, and from which the Almighty governs His universe. And bere is the wonderful correaponding fact, that at the date of the Great Pyramid's completion, at midnight of the autumnal equinox, and hence the true beginning of the year as still preserved in the traditions of many nations, the Pleiades were distributed over the meridian of this pyramid, with alcyone ( 7 . Tauri) precisely on the line.

Here, then, is a pointing of the highest and aublimest character that mere human science has ever been able so much as to hint, and which would seem to breathe an uususpected and mighty menning into that speech of God to Job wben He demanded, "Ganst lhou lind the aweet influences of Pieiades?"

## Whence this Wisdom?

Could all these tbings have been mere coincidences? Is it possible that they just happened so out of blind chance? Then what is the reason that nothing of the gort hins hoppened in the acores of other Egyptian pyramide?

And if they were really designed by the builders, whence then came this surprising intelligenee, unsurpassed and uncontradictable hy the best scientific attainments of modern man?

Shall we credit it all to old Egypt? We find it memorialized in Egypt, but could it have been of Egypt? Not far can we go in such an inquiry till we find the wry impassably choked up against any such conclusion. The old Egyptians never were a highly scientific people. Bunsen says, "Their astronomy was strictly provincial, calculated only for the meridian of Egypt;" and that "the signs of the zodiac were wholly unknown to them till the reign of Trajan." Brugsch says, "It. was based on empiricism, and not on that mathematieal science which calculates the movements of the stars." Strabo admits that the Egyptians of his day were destitute of scientific astronomical knowledye. Renan asserts, and Edward Everett had said before him, that "Not a reformer, not a great poet, not a great artist, not a savant, not a philosopher, is to be met with in all their bistory." Never, therefore, was it in their power to understand, much less originate and enuncinte, the sublime science found in the Great Pyramid. The other
pyramids were of Egypt, but they are totally wanting in all these elements of intellectuality. We look in vain for any traces that the old Egyptians ever understood the mathematical $\pi$, much less construct so original a symbol of it. There is no proof that they ever had any appreciation of the pyramid's system of nuthers, or knew anything of the sun's distance or the earth's form or weight. There is no aign that they ever used the pyramid inch, or the cubit of twenty-five inches, or any measure founded on intelligent earth commensuration. There is nothing to show that they comprehended the precessional cycle, or cver made use of $i t$. They computed by the short and confusing Sothic cycle of one thousand four hundred and sixty-one years, and mistook even that, making it a day in every four yeara sborter than it really is. Their governing star war not Alcyone, the happy star of celeatial tranquillity and peace, but Sirius, the fiery dogetar, whose rising and setting with the aun marks "the dog days,"-the most peatilential days of all the year. It is a bright and flaring star, indeed, but of ill omen to the northera and more classic peoples- $a$ star of which Homer sung as one

[^21]-a star fittingly auspicious of the beast worship of the people who regulated their grand cycle by it. Anil when we further consider how perfectly clear and pure the Great Pyramid is from all marks or traces of old Egypt's auperabounding idulatry, which " changed the glory of the uncorruptible God into an image made like to corruptible man, and to birds, and fuurfooted beasta, and creeping things," defiling every object with this bnse harlotry of the human soul; it becomes atterly impossible to believe that this grand pillar, with its still grander scientific embodinents, could ever have aprung from Egypt, though "all the wiadom of the Egyptians" had been concentrated to produce it. Many pyramids did Egypt build before the costly fashion went out of vogue; but even with the great original before them, there was not genius and observation enough in all the land to make so much as a correct copy of it. Of all the enormous mounds of brick or stone which Egypt itself. set up, there is not one to tell of aught but vaulting ambition and blundering imitation. From the least unto the greatest there is neither science nor sense in any of them. Huw then could Egypt have originated this great acience-laden forerunner of them all?

Whence then came this wisdom? Some direct us to Babylon as the fountain-bead of science and astronomy. And the Chaldæans were, indeed, great builders and astrologers. They worshipped the beavenly bodies. Among them, if among any of the nations, may we best hope to find the primal treasure-house of the knowledge we have been deciphering, if it be at all of earth. To the plauet teraple of Nebo, at Borsippa, are we above all directed as the best memorial they have left us. But tbe Borsippa temple comes seventeen bundred years after the Great Pyramid, and yet sinks into insignificance beside it. Its orientation has been specinlly lauded as strikingly scientific for that remote age, and yet its builders missed it by six degrees! And so lopsided was that construction according to the beat reproductiongs of its plen,-ite surface so broken with corners of terracer, panelled walls, priests' dwellings, and Gights of steps, that its warmest admirers do not pretend to find anytbing ecientific in its form or shape. It was dedicated to the planeta, and proposed to enumerato them in its diverse colored stages, and yet it knew nothing of Uranus, Neptune, or the planetoids, and counted in the earth's moon as one! With such an netronomy the

Great Pyramid could not possibly have been made what it is. There is, indeed, $n$ system of Babylonian metres which has penetrated more or less into all civilized countries, primcipally through Alexander and the Greeks; but it was a aystem of sixes and sevens, and not of fives and fens. Its cubit was between twenty and twenty-one inches, and not the twentyfive of the enrth-commensurated cubit of the Great Pyramid and the sacred cubit of the Hebrews. And no more in Babylon's metrology than in Bahylon's planet temple is there any real science worthy of the name. There is measure, hut it is menningless. There is grand building, but it is only fanciful piling up of bricks and stories which tells of nothing hut the pride and idolatry of the buildera and their blundering in the plain things of our planetary economy, beyond which there is nothing. Never from such a source could the Great Pyramid have come.

Whence, then, cume this wisdom? Step hy step we are being driven to the border line of the territory of miracle and inspiration. Nor do I know how we can honestly belp ourselves against croseing it for no explanation. Prof. Proctor has recently undertaken to solve the whole matter on very easy human grounds,
but the flippancy with which he disposes of some of the problems, while taking no account whatever of others, shows that, astronomer as he is, be has not fally taken in the case. The - whole thing bears the impress of an intelligence so bigh, a wisdom so unaccountnble, and a beneficence so genial toward the wante of man, that no one yet has even begun to show how it can be less than supernatural. And yet our presentations have followed but one line of inquiry, while there are others of still more atriking cbaracter and importance. I have kept myself thua far to the department of acience alone. But there remain sundry otber fields full of wonder, on which I have not time now to touch.

Six bundred years had this pyramid been built before Moses began to write the Pentateuch. And what if passages should be found scattered through the Seriptures which will not intelligibly interpret without it? What if all the great doctrines of Revelation, and all the great characteristics of the ages, and all the mightiest facts in bumen bistory and God's administrations, should be found imbedded in its rocky symbolisms? What if we should find it prophesied of as a grand memorial of Jehovah, meant to be uncovered and read in
these last evil times, in confutation of the degrading philosophies and vain conceits which men untaught of God would bave us accept in place of the word of Revelation? What if we should bear from out its dark and long- bidden chambers and avenues just where we are in the great calendar of time, what scenes are next to be expected in the affairs of our world and what unexampled changes presently await us? What if it ahould turn out to be a clear and manifest propbecy of man's constant native deterioration, of his redemption by miracle, and of his destiny forever, all written out beforeband in "the grandeur of immortal stone "' What if it should prove itself an earlier and independent duplicate of God's volume of inspiration? What majesty and consequence would it then assume in the eyes of all right-thiaking men! To what a crushing test would our modern scientists then be brought with their theories of crestion without a God and their doctrines of salvation without a Saviour!

Nor is it an extravagant anticipation to expect even thus much from this wonderful pillar. Ouce admit, as I believe it will yet bave to be admitted, that superhuman intelligence is in it, and there is then every reason
to count on finding the whole story. God never deals in fragments without making them symbols of the whole. And I shall be much mistaken if it does not turn out, without forcing of facts or dealing in fancies, that in these rocks and their emplacements are treasured up from hoar antiquity the whole plan of God in grace and miracle as well as in the universe of nature. Some other opportunity may be afforded for us to enter and survey this field and thue penetrate further into this glorious mountain of glorious thoughts.

Meanwhile, the mighty atructure atands immortal in its greatness, lifting its brow the nearest to heaven of all earthly works, and asserting in every feature something more then human. With all of man's workmenship that went before it in utter ruin, it stands only the more readable from the damages of time, the grand and indestructible monument of the true primeval man. Upon its pedestal of rock, battered by the buffetings of forty centuries, it stands, upspringing like a tongue of fire kindled of God to light the course of time down to its final goal and consumation.

Olb Tine, himself so old, la like se ehild And can't remember when these blocke tere piled Or ediverta ecooped; but, with emered eye,
He seeme to pause, like other ctendera-by, Half thinking how the wooders here maile tnow Were born in eged older than bis ong.

## sifturt Stenad.

MODERE DIECDYBALPA ATD BIBLICAL CONNDCIOFG


T was lately my privilege to present some account of the Great Pyrarad, and of that wonderful ecientific knowledge embodied in it which has induced the belicf that a higber wisdorn than man's was concerned in its erection. I now resume the subject to present still other facts tending to the same conclusion.

A learned and able historical critic and lecturer recently stated to his audience in this city that what is thus claimed for the Grent Pyramid may be true, and likely is true. And if such is the probability or even the possibility, the matter is not only worthy of our exsmination, but it would seem to be our duty to test it in every possible ficld of inquiry.

The theory is anowhat startling, and altogetber so new and wonderful that some will doubtless be disposed to shrink from it as nothing but an extravagant fnncy. It ought, however, to modify such a feeling wben we remember that we live in an age of wonders,
an age which anawers well to the ancient prophecy of a time bordering on the end, when men would become great travellers and ex. plorers, and as a consequence the stock of buman knowledge be remarkably increased.

## Modern Progress and Discoferies.

There certainly never was anotber period of such intense running to and fro in the earth or of such astounding growth in the range of human information as this in which we live. Events, inventions, and discoveries the most momentors crowd upon each other beyond our power to keep pece with them. Their moltiplicity bewilders and confounds us. The whole life, condition, and dwelling-place of civilized man is being revolutionized by them. We travel now in palaces with every ease and luxury, and faeter than the winds. We converse by electricity across oceans and continents. -We apin, and knit, and weave, and print, and even calculate by automatic machinery. We copy nature and record ber aspecta by sunbeams. The whule world has become one neighborhood. Men have made visits to the poles, mapped the currents of the sea, belted the earth in every direction with lines of railroads and steamers, thrown down
the walls which for ages separated between nations, brought nll types and kindreds of men face to face, and rendered a journey around the globe a mere summer's recreation.

And especially in recoveries from the longforgotten past, in the reconstruction of history before the historic periods, and in the bringing to light of the wisdom and science of primeval ages, our times have been extraordinarily rich and fruitful. The last quarter of a century has been a very resurrection time in this regard. Ages of which we had only the dimmest hints have been marvellously recailed from their obliviou. With the ability to decipher hieroglyphics and cuneiform inscriptions, old worlds have newly opened to our contemplation. By the mastery of languages, the tracing of them to their primal sources and connections, the searching out and bringing together of the scattered fragmenta of autiquity, and the exhumation of ancient remains, the original migrations of the race have become traceable, and much of their long-lost history has been reclaimed. Things hitherto referred to the department of myth, fable, and dream, have suddenly assumed the character of authentic traditions. A little while ago, "Erech, and Accad, and Calneh, in the land of Shinar,"
and Calah, and Resin of Abshur, and Ellasar, and "Ur of the Chaldees," were mere names in Genesis, with scarce another known trace of them; but the mounds of Mesopotamia have yielded up their bricks and stones to modern research, and their longrailent tongues have been loosed to tell where these places stood and what mighty peoples once inhabited them. Babylon and Nineveb have thus unbosomed their recorda to testify how truly the Bible spoke of them and what wealth, luxury, arrogance, and power once were theirs. The names and exploits of their kings, their conquests, their religions, their goda, their sciences, and their styles of life now stand in many instances revealed before our eyes. Arabia, till lately thought to be a mere desert waste, and so marked on the maps, has diaclosed grand seats of empire, with civilizations once existent there superior even to Greece and Rome. Moab's rocks have become vocal with attestations of the sacred records. Bashan's giant cities, and houses covered with stone, and gates and doors of hinged rocks, and walls and bars proportioned to their once giant occupants, bave been visited and their ancient wonders verifed. Palestine has been resurveyed, its old localities identifed, and the
miracles of its history marvellously authenticated. Schliemann is uncovering Homeric cities and bringing up Homeric heroes and the old Homeric civilization out of their loaglost tombs. Even the whole way back through prehistoric ages to Nimrod and Noah is being laid open and lighted up by modern explorntions, And "why should it anaze us that from the land of Egypt also,-that lund of oldest and most numerous monumente,-that lnnd where nothing perishes, -that land so specinlly chosen of God ns the theatre of his most stupeadous miracles,-there should also be a bursting forth of unsuapected light to mingle some superior herms with the general illumination ?

## Egypt's Past.

And if perchance these new disclosures should be of a clarecter more sacred and imposing than what is being exhumed in other lands, it is what we might reasonably anticipate from a country so singularly liuked with some of the most marvellous Divine administrations. It is a type of the world, indeed, but in its milder aspect; the darker type is Babylon. Even Bunsen tella us that Egypt bes ever been the instrument for furthering
the great designs of Providence. It bas been at leust the priacipal background of the aroat illustrious displaya which have marked the career of God's chosen people. Israel could not become a nation without Egypt. The first and greatest of Israel's prophets wha rescued from a watery grnve, nurtured, schooled, and outwurdly fitted for his sublime legation by the daughter of Egypt's king. Abraham himself, thougb from quite another section of the world, wns ministered unto by Egypt. Joseph became the illustrious type of Christ by connection with Egypt. Humanly speak ${ }^{-1}$ ing, Jacob and bis house would bave come to a sad end had it not been for Egypt, which furnished bin with bread, welcomed him to its richest lands, and gave his body a royalburial when be died. To Egypt's sovereign God sent that double dream of the kine end the ears of corn, which proved the means of Joseph's exaltation and of the aalvation of so many peoplea. Even when the blessed Jesus was born into our world Egypt was his asylum from the bloody aword of Herod, and once more and most literally of all were those words of Jehovah fulcilled, "Out of Egypt have I called my son." It was Egypt that gave to mankind the firat translation of the

Hebrew Scriptures. It was Egypt that proved the stronghold of Cbristinnity after Jerusalem fell. It is from Egypt that we bave the noblest and grentest fathers of the Christian Church. And bowever ignoble now may be the land or its population, we may rest assured that God bas something further to accomplish by means of a country of which be bas thus availed bimself in the past, and that out of it will yet caune some of the greatest of sacred marvels which are to mark the closing perioda of time.

Tbe Great Pyaamid's Disolosures.
Some may doubt with regard to such nnticipations; but they are already being renlized in the recent revelations of the Great Pyramid. For forty centuries enshrouded in the deepest mystery, that mighty pillar has at length begun to yield up its secrets. As a mere building it atands at the bead of the world, in age, in vastness of dimensions, in perfection of workmanship, and in the prnctical mastery of problems too bard for all our boasted modern art and machinery. There is not an instance in all the vast structure in which ita architects misealculated or failed. They built for permanence. They planned their work to sur-
vive all the commotions of nature and all the Vandaliam of man. Signally, also, have they succeeded. Not a atone necessary to its ulterior purpose has come short of its office. A monument has thus como down to us from beyond the clessic ages which exalts and dig. nifies the land in which it stande. - It in an edifice of atones so wisely chosen, so justly prepared, so wonderfully handled, so admirably joined, and in the proper places so exquisitely cut and polished, that it is without an equal in any land. It is likewise pervaded with the highest intelligence. Tbere is not an inch of it wbich does not speak. Even after the lapse of four tbousand years of obaervation, study, and experience, there ja not a nation or people whose wisdom or every-day affairs it is not capable of improving. There is reason to think tbat we have not yet reached the fulness of its grand symbolizations; but if nothing more should come of the further atudy of it, enough has been ascertained to render it the most interesting problem of our times.

The Pyramid and tee Prophets.
It would also seem as if God's inspired prophets knew of this marvellous pillar and
regarded it as a sacred wonder. The Greeks as early as Alexander's time placed it at the head of their list of "the seven wonders of the world." But Jeremiah before them wrote of "signs and wonders in the land of Egypt," and of the placing of them there by "the Great, the Mighty God, the Lord of hoats" (Jer. $32: 18-20$ ), which would seem to refer to this pyramid. He was in Egypt when he made this record. He went there at the fall of Jerusalem that he might write his prophecies and send them to his captive countrymen in Bahylon. His method was to fortify his teatimony by appealing to all the records and monuments which Jehovah had made of his power and greatness in the earth. He accordingly refers to "signs and wonders in the land of Egypt," of which he says that they atill existed when he wrote, 一"unto this day." He is commonly thought to allude to the miracles of the Exodus, which certainly were
 But those are apecifically noted in a subsequent verae, and in phraseology better suited to them. Tbe language bere suggests something monumental, sumetbing locally fixed. It asturally implies a Divine memorial, continuously abiding, and then still to be seen in

Egypt. It was something " $\quad$ et' there. The word is the same in Hebrew and in English, and with much the same sense in both.* It may be metaphorically used with regard to miracles, but when used of things continuous for hundreds of years after the placing, the sense is cramped and atrained when applied to miracles like those of the Exodus, which disappeared with the relenting of Pharaoh and the departure of Israel. So keenly has this been felt that critics have been forced to speak of a probable substitution of one word in place of another, and men have cast about for some remaining physical marke of the Mosaic miracles in order to satisfy the terms of the record. Hence we read in Trapp's Commentary on the passage, "Orosis writeth that the tracks of Pharaoh's cbariot-wheels are yet to be seen at the Red Sea!" The Great Pyramid on the new hypothesis would nobly help auch critics and commentators out of the mad, and grandly meet the exact phraseology of the prophet. Interpreted then by the most cogent laws of language we bere have a Scriptural recognition

[^22]of some enduring monument in Egypt, built by God's appointment, and meant to be a witness to bim.

Isaiah makes a similar reference of a still more circumatantial and positive character. In chap. 19:19, 20, he prophesies, "In that day ahall there be an altar to the Lord in the midst of the land of Egypt, and a pillar at the border thereof to the Lord, and it shall be for a sign and for a witness unto the Lord of hosts in the land of Egypt."

This "altar" and "pillar" are not two things, but one and the same as sundry expositore bave observed. The language is poeticn, and bas the common parallelism of Hebrew poetry. Given in the form and sense of the original, it would read
${ }^{14}$ In that day thare is an altar to Jehoveb
In the midet of the lend of Rgypt;
Iven a piljar at the border thersef to Jehevah,
And it ahall be for a sign and witneas wo Jehowsh of hosts
La the lend of Egypt."

Everything in this prophecy seems to look to the Great Pyramid. It refers to some apecific and telling monument, and all its terme most fully apply to this marvellous pillar. There is nothing else known to which they do apply in literal accuracy and fulness.

Note how admirably the tillea fit. "Altar" in Hebrew means "the lion of God." Tbe Great Pyramid is pre-eminently the lion among all enrthly buildings, and the new theory claims tbat it is Divine. The altar as described by Ezekiel is largely pyramidal in form, and is called "the mountain of God." And a mountnin, surely, is tbe Great Pyramid, and one of a very remarkable character. The sacred books of the Hindoos call it a moun-tain-Rucm-adri-" the golden mountain." It is "a pillar," and hence not a sacrificial but a memorial altar. It is a mammoth obeliak,one great individual shaft,-and now also believed to be sacred.

The location likewise corresponds. The Great Pyramid is the hub or centre of Egypt's curved shoreline, and so is "in the midat of the land," as nothing else to be thought of ever was. Yet it is also "at the border thereof." It stands on the extreme southern limit of Lower Egypt, and on the natural dividing line between the two Egypts. It is thus doubly "in the midet" and doubly "at the border."

The time also answers. Six times the note is sounded, and in every instance in the usual Messianic and eachatological formula-6 in
that day,"-a day which nowhere finally locates this side of the period of "the restitution of all things." Whatever else the prediction may cover, it cannot therefore be considered exhausted yet, and necessarily brings us down to the times bordering on the end. By permission of Ptolemy PLilometor, certnin Jews built a quasi temple and altar at Heliopolis, which some take as the subject of the prophecy. But that erection was against the law and could not he called Divine, tbough by man's self-will intended to be so. Besides, that was an altar of sacrifice and not a memorial pillar as here debcribed. Othera think the reference is to the estahlishment of churches in Egypt, which were numerous in the early Chriatian ages. But these properly had no visible local altar at all, neither had they any one monumental "pillar" to answer this description. When this altar gives forth its witness to Jebovah, Egypt, Asayria, and Israel are to become a holy triad of divinely approved peoples, which has never yet occurred. "A Saviour, and a great one," is then to come to Egypt, and deliver from all oppressors. But this is the language designating the glorious Hedeemer of the world, and we degrade and profane it by applying it as some bave done to
the pagan conqueror, Alexander. Christ, indeed, came to Erypt in his infancy, and afterwards in his Gospel, but never in the character of a national deliverer. We thereforc look in vain for any true and exbaustive fulfilment of this prophecy in the past. It must refer to the latter times, and it fits to nothing known but the Great Pyramid. Even Vitringa, ns early as the beginaing of the last century, threw out the idea in his commentary on this place that some one or other of the existing monuments of Egypt is bere involved.

## Tee Pyramid and thé Book of Job.

There is a still more distinct reference to the Great Pyramid in the Book of Job, 38 : 1-7. We there bave one of the grandest descriptions in the Bible. The speaker is God, nud the subject is the creation of the earth. The picture is the building of an edifice. Elsewhere in the book the earth is said to be luang upon nothing; вo that we must not suppose ignorance of the renl facts when the earth is bere likeoed to a building resting on foundations. To overwhelm the pride of the human understanding, the Lord answered Joh out of the whirlwind and said, "Who is this that darkeneth counsel by words without
knowledge? Gird up now thy loins like n man, for I will demand of thee, and answer thou me. Where west thou when I laid the foundations of the earth? Declare, if thou hast understanding. Who laid the measures thereof, if thou knowest? Or who hath stretched the line upon it? Whereupon are the foundations fastened [or "made to sink" as a aeal into wax]? Or who laid the cornerstone thereof, when the morning stars sang together, and all the sons of God shouted for joy?"
" Behold here the architecture of God! The terins are those of the geometer-the master builder. Here are the hases, the juintings, the lines, the height, the corner-stone, the measures!" And the style of the building is unquestionably the Pyramid. That "cornerstone" spoken of in the singular, its emphatic isolation from "the foundations," and the singing and sbouting of the beavenly hosta over the mighty acbievement at the laying of that particular stone, require the proper pyramidal edifice. The picture will not interpret of anything else. That corner-stone could not be at the base," for others were there against

[^23]which no such marked diatinction in truth existed, and ita laying would then have been at the beginning, at which time this celeatial celebration would be out of place. Even Barneb, contrary to the erroneous imagery by which he tries to interpret the pasaage, agrees. that " the time referred to is at the clooe of the creation of the earth." And as this celebration according to God himself is at the laying of that corner-stone, it must needs be a top stone-a corner-stone at the summit-whose laying completed the edifice and showed the whole work in finished perfection. But for auch a corner-atone at the sammit there is no place in any then known form of buitding, save only the Pyramid, of which it is characteristic.

Nor is it only to the pyramidal form in general that the allusion is, but to a particular pyramid. By that atrange reference to the sunken feet or planting of the foundations in "sockets," we are conducted directly to the Great Pyramid of Gizeb. Two socketed "encastrements," "socles," shoes, or incised sinkings

[^24]into the rock were found under two of its base corners by the French savantu in 1799, which were again uncovered and deacribed by Colonel Howard Vyse, in 1837. And as God here speaks of such a fastening down of the foundations in general, Prof. Smyth was persurded that there were corresponding "sockets" at the other two base corners, and when search was made for them in 1865 , they were found by Messrs. Aiton and Inglis, asaisted by Prof. Smyth. Here then are the whole four "sockets" or fastened foundntions. Nothing of the sort exists at any other known pyranid. They are among the distinctive marks of the Great Pyramid of Gizeh. They are the enduring tracks of ita feet cut into the living rock, by which Almighty God himself identifies it for us as the original image from which bis own description of the creation is drawn. Men may treat the matter as they will, but bere are the facts slowing a Divine recognition of this particular edifice as the special symbol of the earth's formation!

- And from the same passage we also get some important rays of Divine light with regard to the builders of this pillar and their estimate of it.

The singers and shouters at the completion
of the earth's crention of course were heavenly intelligencea, tas most uxpositors magree in terching. But as the laying of the capstone of the Great Pyrmmid is divinely given as the symbol of the laying of the capstone in the fabric of our world, the singers and their rejoicings so sublimely referred to in the one case must also have had pince in the other.

It is never to be overlooked that there are earthly "morning stars" and "sons of God" as well as heavenly ones. "As many as are led by the Spirit of God, they are the sons of God." There were such "sons of God" on earth before the flood. Adam was one of them, and his immedinte descendants iu the line of Seth were othcra. Many of tbem apostatized, but some remained faithful. Noah was one of those faithful ones, and be was brought over the great water bearing with him all the ancred rites, traditions, and revelations of bis boly fatbers. By him the newly baptized world began once more. From his coming out of the ark to the building of the Great Pyramid, the call of Abraham, and the commission of Moses, was really the morning time of our present world. Like other mornings it had its noble "stars" and "sons of Gud" who shone with patriarchal faithfulness and glorious tes-
timony in their time. Shem and numbers of his seed at least were of this class. Joh, and Melchisedec, and Abraham were pre-eminent among them. Jehovah has always had a people of his own among men, a people who reflected his mind and will, preserved his revelations, obeyed his commands, and kept to the pure worship of his name. Even long after the call of Abrabam there was yet a true "priest of the Most High God" in Palestine, and nnother in Midian, and inapired Gentile propheta as late as the days of Moses and Aspon. These were God's "sons" hy faith in him and "atars" of light amid the darkness of those early times-noble harbingers of the coming dry.
Such " morning stars" and "sons of God" were on the earth when the Great Pyramid was built, corresponding to those in heaven when the earth was made. And as the one structure is the symbol of the other, even to its most hidden mysteries and measures, the analogy would be singularly incomplete in one of the most significant features of the divinely drawn parallel if the singing and ahouting did not occur in one case as in the other.

But if these early light-bearers and children of God on earth sung and shouted at the lay-
ing of the capstone of the Great Pyramid as the beavenly hosta sung and shouted when the fabric of the world was completed, they must needs have understood it and been in deepest sympathy with jt. It must have been identified with their most sacred thoughte and contemplations. It must have been of a character in full and glorious accord with what distinguished them from other people and made them "stars" and "sons of God." It must have been something most profoundly related to -Jehovah aud the holy treasurea of his ancient revelations and promises, and heuce not a mere obtrusive tomh got up hy some proud, oppressive, and beast-worshipping worldly tyrant.

From the Book of God itself we thus legitimately gather that the Gront Pyramid did not originate with jdolatrous Egypt; tbat it connects with the most precious things of those "sons of God" who shone as lights in the dim morning of the world's history; that it was the subject of their devoutest joy and gratitude; and that in their esteem it was everything which it is now supposed to be.

## The Pyramid and Christ.

But then we would expect it also to refer to Christ and redemption. The great subject of
all sacred Revelation is the Cbrist and bis glorious kiagdom, and we can bardly suppose this pillar Divine if it has not romething on this point. Men may well sneer at the idea of a apecial revelation to old Cheops or his architects to teach the diameter, density, and temperature of the earth. Something of rightier moment to mankind must be involved when Jebovab thus interposes. Such clains need to be tried by the pre-eminent theme of all inspiration. But even on this ligh ground the Great Pyramid sustains iteelf fuil ne grandly as in the aphere of cosmic facts and geodetic messures.

When Zerubbabel and Jeshun were engaged rebuilding Jerusalem and the Temple on the return from the great captivity, they had in hand a work of extroordinary greatness, diffculty, and discouragernents. So important was it in itself, and so bound up in history and type with another and greater restoration, that it was rade the occasion and subject of special Divine communication through Zechariab the propbet. And in those prophecien that work and all that it typified is set forth under the innage of the building of the Pyramid. A "great mountain" of worldly power and difficulty wes in the way, but God suid it sbould
leconic "a plain befure Zerubbabel," as the Gizeh hill was levelled to receive the Grent Pyramid. As despite all hindrances the Pyramid was successfully carried forward to completion, even to the laying of the peculiar corner-atone of its apex amid the aongs of "the morning etars" and the ehouts of "all the sons of God," so.was Zerubbabel and he wham Zerubbabel typified to succeed in their Divine work, even to the "bringing forth of the headstone thereof with shoutings, crying, 'Grace, Grace unto it.'" (Zech. 4:6, 7.) The pyramid idea is absolutely essential to na intelligible and consistent interpretation of this imagery. The picture is an exact parallel to the one in Job, only transferred from nature to grace,-from geologic to Messianic territory.

By necessary implications of Holy Scripture tben the Great Pyramid is immutably linked with the building of the Church of which the adorable Jesus is "the headstone," "the chief corner-stone."

It is also a clear and outstanding fact that the Scriptures continually make the pyramid capatone the type and symbol of Christ, both in the Old Testament and in the New. Who neerls to be reminded with what hrilliant diction Moses likene Jehovah to a rock, and how
triamphantly he asserta againat all the heathen world, that "their rock is not as our rock, even our enemies themselves being judges!" Out of the very spirit as well as letter of the Holy Book every Christian congregation using the English tongue, often lifts up its voice to Jeaus, singing

> Rock of agea, cloft for mon, Let me hide myealf in thes I

He is not only such a rock as that which yielded thirsty Larael drink, or as that which gives the weary traveller shelter from the scorching sunshine or benting storm, or as that which the prudent builder seeks whereon to found his house securely, bat especially such a rock as that which forms the apex of the Pyramid-a rock which is the head and crown of all the works of Providence and grace-the anique bond in which the whole edifice of time is united-the headstone of redemption lifted bigh above all other rocks, " that in all things he might have the preeminence." So David conceived of him when he sung, "The atone which the huilders refured is become the headstone of the corner," or "the head corner-stone," as the Septuagint renders it. (Pr 118:22.) So Peter being
"filled with the Holy Ghost," conceived of him when he said to the Jews who had condemned and crucified bim, "This is the stone which wes set at naught by you builders which is become the head of the corner." (Acts $4: 11$.) Hence, alno, be wrote to his gcattered brethren in the faithas having come to Jesus, "as unto n living stone dissllowed indeed of men, but chosen of God, and precious," in whom they also "as lively stones were huilt up a apiritual house," according to the saying of God, "Behold I lay in Zion a chiel corner-stone, elect, precious," even "the stone which the builders disallowed," but which now "is made the leend of the corner, and a stone of atumbling and a rock of offence even to them which stumble at the word." (1 Pet. 2 : 4-8.) So Paul conceived of him when be wrote to the Ephesians, "Ye are huilt upon the foundation of the apostles and prophets, Jesus Christ himself being the chief corner-stone, in whom all the building fitly framed together groweth unto an holy temple in the Lord, in whom ye also are builded togetber for nn babitation of God through the spirit." (Eph. $2: 20-22$.$) And$ the asme conception Jesus applied to himself when he said, "Did ye never read in the

Scriptures, the stone which the buildera rejected the anme is become the head of the corner? And whosoever shall fall on this stone shall be broken, hut on whomsoever it aball fall it will grind him to powder.' (Matt. 21 : 42-44.)

All these are great central passages of the Divine word, and not one of them will interpret without the Pyramid, whose light alone brings out their full significance and beauty. It is absurd enough when men speak of a river's bead at one end of it, and its mouth at the other end; but it is unbearable to represent the Holy Ghost treating of the head of a thing as in its toes. Interpreters may put such absurdities in the Bible, but its autbor never does. The head is not the foot nor the foot the head in any consistent or intelligible use of language. So the head corner-stone cannot be the foot or foundation corner-stone. Where there are four alike, to regard one as chief is a mere conventionalism without reality in fact, and such as the Bible never employs. Common architecture furnishes no one pre-eminent corner or corner-stone. There is no head corner withont the Pyramid. Tbat alone has such a head at the head, or a corneratone uniquely and indisputably the chief. It

Lias the usual four at the base, alike in shape, place and office, but it has a fifth, different from all otbers and far more exalted. It is at the top. and properly the head one. It is the last to come into place and ao may be long rejected while the building atill goes on. The base corner-alones must be laid nt the beginning. Work cannot proceed while either of them is disallowed. I'liey are also of such regular shape as renders them capable of being worked in as well at one place as at another They furnish no occasion to be disallowed. Not so the head corner-stone. The shape of that is altogether peculiar. It is five-sided and five-pointed. From foundation to summit there is no place at which it will fit till everything else is finished and its own proper place is reached. Till tben it is naturally enough rejected ly the builders. They bave no place for it. To those ignorant of its purpose it is only in the way-"a rock of oflence and a stone of stumbling." With one sharp point always sticking upwards, nny one falling on it would necessarily " be broken." And when on its way to its position bundreds of feet in the air were it to fall on any one it would certainly "grind him to powder."

But though rejected to the last, it finally
turns out to be the very thing required, and rencbes a place to which it alone fits; a place above all others, where it sublimely finishes out and binds together everything in one glorious whole. It is itself a perfect pyramid, the original model of the edifice which it completes and adorns. It is emphatically the head stone of the head cormer. It is at the head and not at the feet. It has its own peculiar angles and they are the angles of the entire atructure. There is but one stone of that shape and it is the shape of the pyramid complete. It is the stone which stands toward Heaven for every other in the building. Every other stone in all the mighty construction stands in it, and has place with reference to it, and is touched by its weight and infuence, as well as sheltered under its lines, and honored and perfected by its presence. It is indeed the "all in all" of the wbole edifice. To its angles is "all the building fitly framed together." And in it every part and particle that belongs to the structure from foundation to capstone has its bond of perfectness, its shelter, and its crown.

About such imagery there should be no question. In all the richness of the Seriptures there is not a more luminous, expreseive,
and comprehensive picture of the Christ, in himself, in his experiences, in his relations to his friends or fues, in his office and place in all the dispensations of God towsrd our race, than that which is given in these texts when studied in the light of the Great Pyramid. These passages alone consecrate and asanctify it forever. In them the Moly Ghost takes hold of it, traces in it a sucred signicicance, and arsigns to it relations and comections, the truth and beauty of which cannot be disputed. And thus by tbe highest authority known to man it is rendered impossible to be thoroughly true to the ntterunces of inspiration, and yet regard this venerable monument as nothing but the profine toinb of a pagan despot.

Tee Pyramid and tee Ciristian Dispensation.
And this sublime testimony to the Great Pyramid from without is also fully nostained by its own testimony from within. We have seen in a former lecture how grandly it aymbolizes the truths of natiue. Let us glance now at its symbolizations of Grace.

Prof. Smyth relates that in the course of the summer of 1872 , Mr. Charles Casey, of Pollerton Castle, Carlow, wrote him that while he had followed and adopted all the explanationa
as to the metrology of the Great Pyramid being of more than human scientific perfection for the age in which it was produced,-yet to call it therefore divinely inspired or "sacred " seemed to him to be either too much or too little. "Now, said Mr. Casey, unless the Great Pyramid can be shown to be Messinnic as well as fraught with superhuman acience and design, ite "sacred' claim is a thing with no blood in it,-nothing but mere sounding hrass." Nor was this an uneasonable tert. And it is one which I am linppy to say the Grent Pyramid very nobly stands.

The first to hreak ground in this department was Rohert Menzies, n young shiphuilder and draughtamen, of Leith, Scotland, a Christian Lsraelite who never sawt the Great Pyramid, but had long been engaged in the devout atudy of the works which describe it. In 1865 he wrote to Prof. Smyth that the immense ouperiority of the height and Gnish of the Grand Gallery over every other passnge is owing to the fact that it represents the Christian dispeasation, while the other passages symbolize only human histories or preparatory dispensations. He also had good reason for this conclusion, more perhaps than he knew.

The Christian dispensation by common con-
sent dates from the birth of Christ If the Grand Gallery represents it, then the mark for the birth of Christ is the commencement of that gallery. The unit or that which counts one in pyramid mensure is the inch, and so the inch, as in the diagonals of the hase, syunbolizes the grand unit of time, a year, at lenst in the Hoorlines of the pasarges talken as scrolls of history. Measuring thirty-three inches then from the beginning of the Grand Gallery for the duration of the erarthly life of Christ, we come precisely over ogainst the mouth of that mysterious "well" with its ramp-stone cover gone, as if violently forced out from bencatb. That "well" extends irregularly down through the masonry and rock to a wide cavern, and thence to the entrance of the hottomless pit itself. It is a striking symbol of death, scaling up in the sepulchre, descent into hell, and triumphant resurrection in irresistible power. And it comes at a place to Git precisely to the death and resurrection of our blessed Lord. This certainly is a very strong point with which to hegin.

The Christian dispensation is emphatically the diapenation of new life. Its pervading spirit is that of resurrection. Basing itself on the resurrention of Christ as its great sealing
fact, it went everywhere in the power of the Holy Ghost awakening men out of their moral graves and calling them forth in a new birth, "that like as Cbrist was raised from the dead by the glory of the Father, even so we also should walk in newness of life." Mostintensely elso is this signified throughout the whole length of the Grand Gallery of our Pyramid. It is lined along its bnse on both sides with ramp-stones like "washboards" to a atairway. They are about a foot high and wide, and they are all cut with miniature symbolic graves every one of which is open. More than this, right by the side of each of these open graves is a neatly cut atone set vertically in the wall. It is a symbol of standing upright, and almost audibly proctams the tenants of those open graves risen, as all true Christians are, not only from the death of ain, hut to an heirship of a atill completer resurrection through him who is to come again. There are eight times seven of these open graves. Eight is the number of new life and resurrection, and seven of dispensational fulness, so that by their numbers they nalso signify this newness of life. We thus have one of the intensest and most spiritual features of the Gospel as emphatically pronounced as stones can speak it.

The Christian dispensation is likewise pictured in the Bible as tarde up of seven churches headed by "seven stars" which are "the angels of the seven churches." So the beat and earliest commentators explain that first vision of the Apocalypse, which allowe very little room for differences of opinion. And a corresponding symbol of the same is contained in this Grand Gallery. It stares every one in the face the moment the place is entered. All writers bave described it us oue of the peculiar beauties of the singular arrangement. Lach side of the wall is made up of just seven courses of finely fitted polished stones, the one overlapping the other and extending the whole lengtb from commencerment to termination. It is the gallery of tbe seven courses just seven times the height of the other passages. Besides, this gallery has special reiations to the Pleiades. It tells in several ways of those benignatat and exalted atars. In its own way it thus also points to the "seven stars" as presiding over the seven churches.

As a matter of historic fact the Christion diapensation followed immediately on the Jewisb economy, of which it is the crown and completion. The law leads the way to Christ. This historical auccession is also carefully pre
served in the symbolizations of our Pyramid. The first upward passage which leads to the Grand Gallery ia just the number of inches in length which the best chronologists give ns the number of years from the Esodus to the birth of Chriat. It is the way to the Grand Gallery as the Jewish dispensation is the way to the Cbristian.

The Christian dispensation also has $\pi$ fixed limit. It is to terminnte with the coming again of the Lord Jesus to judge the quick and the dead. Every commission under which we now act extends only to that time. And that coming of Cbrist to end this age is everywhere presented as impending,-as a thing which might occur any day. All this is likewise symholized in the Grand Gallery of the Great Pyramid. Its termination is as distinctly marked as its beginning, and even the inpendingness of the end is not overlooked. Its south or further wall leans a full degree and overhangs its hase as if it might fall at any moment.

From my atudies of the Apocalypse, I was led to publish yeara ngo my firm belief that the present Church period is to be succeeded by a diapensation of judgment extending through years before the great consummation
is reached. And here we bave it most evidently symbolized next after the end of the Grand Gallery. There the passage becomes low again, for the Church as such has ended its career. There the "granite leaf"-n great frowning double stone-hangs in its grooves, beneath which every one that passes in must low, exhibiting a most impressive picture of "the great tribulation" of the judgwent period. There also are the rules and measures by wbich the Pyramid was constructed, all graven on the stones, indicative of the complete righting up of everything according to law and justice. And then only comes the entrance into the grand and polished granite chamber of the king.

One of the most exalted steps in the bistory of tbe Cburch is that which was accomplished during the first quarter of our present century. It was in the first twenty-6ve years since 1800 that Cluristendom throughout the world formed its great organizations for the disaemination of the Holy Seriptures, for the publication and general diffusion of religious literature and Gospel truth, and for the sending out and support of missionaries to the heathen, to plant the Church of Jesus in all lands and islends. It was in those years that the Christian world
experienced a revival of nggressive evangelization and misbionary zeal, the greatest and the most general since the days of the Apostles, the effects of which continue with atill increas. ing power. The coming into activity of these organizations with their reaulte was so marked an advance on everything of the kind for more than twelve hundred years, and so universal that we might justly expect it to be noted in any complete prophetic symbolization of our diepensation. Accordingly following the floorline of tbe Pyramid's Grand Gallery towards its upper end we come to a grand step three feet high. I long wondered what it could mean, as it is the only one in the whole length of the glorious passage after that amewhat corresponding rise not far from the beginning. But when I came to count the number of inches from the commencement of the Grand Gallery to this upper step the mystery was solved. The number of those incbes is close about one thousand eight hundred and fourteen, which at the rate of an inch for a year brings un to the very centre of those years in which the Church universal made this mighty, and unexampled stride. Beyond this step there is no further ascent. The great atone which forms it is also the weakert and most frac-
tured and dilapidated of all the stones in the whole pasarge-way of the Grand Gallery. It shows a marvellous rise, but an equally marvellous absence of solidity and strength. It is the image of brokenness, feebleness, and the want of firm texture. It scems as if crumbling away under the feet of those who stand upon it And this agaiu most strikingly accords with the poor, rent, weak, and wasting character of the Christianity of our times, though they be times of universal evangelization. It is Christianity, and evinces a great rise in effort and nim; but it is a very shattered and infirm Cbristindity, with but little solid substance left and incapable of enduring long.

Thus there is scarce a feature of our dispensation from the birth of Christ till now, or that is anywhere foretold of its end, which is not symbolized in the Grand Gallery of the Great Pyramid. Man in all his ingenuity is incompetent to devise a simpler and completer chart of it, were be to labor at it for agen. And yet here it is in all jts great facts, cbaracteristics, and relations, in its beginning and end, in its constitution and history, in what weat before and in what comes after, built into an edifice of mighty rocks more than three times
seven hundred years before Clarles was barn. All this certainly is very remarkable.

Is it then within the reason of man to say that there was nothing above and beyond mere human power and calculation here,-no potent presence of that Mind which knows the end of all things from the beginning, and giveth wisdom unto the wise?

## Ter Pyramd and Teeology.

Tested also by the more inward sulpatance and contents of sound Seriptural doctrine, the facts are equally remurkable and cogent.

The foundation of all sacred doctrines is the existence of a personal and eternal God, the Almighty Maker of heaven and earth. The Bible pronounces that man a "fool"-one criminally self-stultified-who can find it in his heart to say, "there is no God." So also the Great Pyramid teaches. It symbolizes the earth and all the universe as a contrivance, a work, a building, shaped to Promethean plan. It must therefore have had a contriver, an intelligent and potent author, greater than itself. It thus pronounces at one and the same time against Atheism, against Sabaism, against Pantheism, and against all idolatry and false worship. It knows nothing of a world with-
out an architect, of creaturehood without basis or centre, of beauty without parent or birthplace, of good without $a$ bosom out of which it flows, of thought without renson, of effect without a cause. It proclaims the universe a product, and one self-competent God as ite nutbor:

It is an essential part of orthodox theology that Jehovah is a three-one God. "The true Christian faith is this, that we worsbip one God in Trinity, and Trinity in Uaity, neither confounding the persons nor dividing the substance." And when we ascribe glory to the Father, and to the Son, and to the Holy Gbost, we rightfully add "ns it was in the beginning," for so is the representation in this Pyramid before the Bible was written. On each of its four fuces as in its fundmental figure it presents to every beholder the geometric enblem of tbe Trinity, the sume that is accepted by the Church and exbibited in nearly every place of Christian worship. Creation is the reflection of God himself, and the Pyrauid ats naymbol of the creation gives impressive token of His mysterious Tri-unity. Nature reflects Trinity, and this symbol of nature does the eame with $n$ depth and stress which cannot be diaputed. Shaw states that the Deity is typified by the outward form of this pile, and that
form is a triangle whether viewed on either side or from either corner.

The architect of the world this monument likewise proclaims to be the King of the world, a governing and upholding Providence as well as a tri-personal Creator. Those measures, motions, interrelations, nnd vast revolutions which it symbolizes, all tell that the universe does not hold God hut that thus he holde and manages the universe. They are the grasp and pressure of an infinite and Almighty band, whose fingers clasp the crystal poles of the earth nad heavens, and under whose protecting palm the continents and seas, planets, sunts, and systems pass with unfaltering steadiness from age to age. And the conformation of its shape, messures, evenues, and openings, to cosmic and celestial facts, themselves the symbols of an eteraal Providence, proclaims the potent presence of God in the histories as well as in the constitution of the earth.

But the Bible tells also of an evil power in the universe-an anti-God-whom it describes as an apostate angelic being who has obtained a terrible influence over the affuirs and destiny of man. He is called the Dragon, the old Serpent, Satan, the Devil. He is declared to be a murderar, a tempter, a destroyer, a liar,
the author of all evil, under whose usurped dominion mankind, unbelped of God, are hopelessly inthralled. And this too is strikingly expressed by the Great Pyramid.

From the earliest known times different portions of the heavena bave been designated, and known by certain Gigures supposed to be outlined by the stars which they embrace. There are now about eighty of these constellations. The stars of which they are composed the Bible declares to be for "signs," as well as for seasons, days, and years. The probability is that the earlier and most remarkable of these designations were made by God bimself even before the flood. Juseplus attrihutos the invention of the constellations to the farmily of Seth, the son of Adrm, and refers to ancient writers ra authorities. Origen affirns that it was asserted in the Book of Enoch that in the time of that patriarch the constellations were already divided and named.* Vol-

[^25]ney informa us that everywhere in antiquity there was a cherished tradition of an expected conqueror of the serpent, and asserts that this tradition is rellected in the constellations as well as in all the heathen mythologies. Dupuis, also, and others of his school have collected ancient authorities abundantly proving that in all nations this tradition always prevailed, and that the same is represented in the constellations. Indeed, aptiquity with one voice declares for their very early origin, and the resulte of modern investigations by astronomers themselves confirm the traditions and reveal internal evidence of their having heen constructed more than Give thousand years ago. Cassini commences his History of Agtronomy by saying, "It is impossible to douht that astronomy was invented from the beginning of the world ; history profane as well as sacred testifies to this truth." Bailly and others assert that astronomy must have been established when tbe summer solstice was iu the first degree of Virgo, and that the solar and lunar zodiacs were of a aimilar antiquity,

[^26]which would be about four thousand ycara before the Christina era. They suppose the origipatora to have lived in about the fortieth degree of north latitude, and to have been a highly civilized people. Prof. Proctor, hy calculations hased on Hindoo and other astronomies, traces the ruthors of this science to sorne people residing between the rivera Cyrus and Aramas, not very far from Mount Ararat, at a date perhaps two thousand two hundred years hefore Christ. Sir William Drummond says, "The fact is certain that at some remote period there were mathematicians and natronomers who knew that the sun is the centre of our system, and that the earth itself a planet revolves around it." The constellations were certainly known in the time of Job, and are familiarly referred to in that very ancient book. Seyffarth says they are as old as the human race. The author of Mazzarolh makes the origin of the constellations antediluvinn, and thinks they were framed by inspiration for ancred and prophetic purposes. There are actual astronomical calculations in existence with calendars formed apon them, which eminent astronomers of England and France admit to be genuine and true, and which carry back the antiquity of this aciance together
with the constellationa to within a few years of the deluge, even on the longer chronology of the Septuagint. Sir John Herschel Ginds much fauit with these old constellations as barbarous and unscientific. He would bave these contorted snakes, miscalled bears, lions, fisbes, and the like, banished from our astronomies as too oppressive to the student's memory. But the author of Mazzaroth very well euggests that this learned astrunomer perhaps never came across the proper meaning of thesc grotesque figures or never duly studied them as symbols, or he would have been less anxious for their obliteration. Nay, the specimens Which modern natronomers bave given of their skill at such relorms do not much recommend the giving of free scope to them in this partioular. The universality of these ancient groupings must ever secure their retention, however disliked by scientists. And the very inconvenienoe of them for naked astronomical purposes is proof not of the barbarism of their inventors, but that they were meant to serve some furtber end. 'ILe most important historical, theological, and prophetic trutbs have been inscribed on the heavens by means of them, so that they need ouly to be stripped of the changes, caricatures, and interpolations of
the heathen Greeks and modern scientiats in order to show us the outlines of the Bible on the aky, and to prove that in a high, evangelic, and most impressive sense " the heavens declare the glory of God." The author of Mazzaroh and others bave not only said but shown that we bave in these nincient constellations a medium of communication with the mind, theology, and bopes of primitive man, and that we here may read the fact that God has spoken to our race, given to it a Revelation from the beginning, and embodied in it precisely the same great traths afterwards written and developed in the sacred Scriptures. Everywhere do we encounter the traditions of Abraham's skill in the knowledge of the henvens, how he argued from his observations of the heavenly orbs, and how he occupied himself in Egypt teaching the priests of Heliopolis in the lure of the skies. Douhtless thia was not the naked science of astronomy as the achools conceive of it, but as respected the theological and Messianic truths symbolized in these celestial bieroglyphics, in which, as in the more literal promises, he rejoiced to ate Christ's day, nad sewf it and was glad. (John 8 : 56.) Well, therefore, has it been that tbese ancient "aigns" have been preserved. And mankind
have reason to pray that no hand of intermedHling acience may ever awcep them down, but that they may continue to stand unto the end in oll the almanacs of time.
One of the oldeat nad mont univereal of these ancient constellations is the Dragon or Great Serpent. The chief stnr embrneed in that group (a Draconis) is situnted in the monster's tail. And to that atar the entrance prasage of the Grent Pyramid was levelled, so that a Draconis at its lower culmination then looked right down that inclined tube to the bottomless pit. Mnnkind maroling down that passage would therefore be moving under the. sign and dominion of the Dragon. Thus in a manner which startles by its vividness the Great Pyrnuid unswers to the Bible in snying that there is n Devil, who has somehow obtained an awful potency over the buman race, and that mankind under him are on the way to tbe pit of destruction. Tbe picture is thatof a tube over which the Dragon presides, whose incline is fearfully downwards, and which terminates in hell! Could the story be wold in simpler or more graphic terms?

Some laugh at the idea of $a$ hell. Even whole denominations calling themselves Christians make it a point of faith to deny the
existeace of any such thing. But the Bible telle about it as a dark and mysterious under-world-a bottomless pit-asubterranean region of bopeless misery, wout of which there is no cscape. And bere is the symbol of it in the Great Pyramid-a room far under the centre of the edifice, one hundred feet down in the solid rock, having neither botion nor outlet. It bas continuity in a tube on the furtber side, but it is endlesa, the same as the pit is bottomless. With singular significance has this feature been copied in all other pyramide, to whose hopeless subterrnnean chambera the kinge of idolatrous and self-justifying Egypt were consigned. Heace the words of Ezekiel ( $31: 14-18$ ): "They are all delivered unto deatb, to the netber parts of the earth; in the midst of the children of men, with them that go down to the pit. . Tbis is Pharmoh and all his multitude, saith the Lord God." And in the facile and amooth descent of that main passage-way leading directly down to the pit we have the symbol of the teadency and bopeless destiny of man since bis fall into Satag's power, except as recovered by some gracious intervention superior to nature and mightier than the Devil.

But the giad and glorious teaching of the

Bible is that God bas interposed, introduced n new and asping economy, calling Abraham, commissioning and inspiring Moses and the propbets, establishing for himself a consecrated people, and preparing the way for a sublime Deliverer in Jeaus Christ, who haw brougbt forgiveness and eternal life into the world, and arranged for a new and eternal dominion of righteousness and peace, which is to dethrone Satan and bring man back to original blessedness. This is the very soul and spirit of the Scriptures-the master theme of both Testnments and of all their institutes. And the same is tbe great subject of all the chief parts of the Great Pyramid's interior-the burden of its nobleat passages-the story of all its upper apartuents.

The first ascending passage begins at the point which answers in the number of ita yearinches to the date of the Exodus of Israel. It alao covers by ita length the precise number of inches thet there were years from the Exodus to the birth of Christ. We thus identify it as the Pyramid's symbol of the Mosaic dispensation. That dispensation was an upward movement in buman history founded on direct supernatural interferences of the Almighty, and so this is an upward passage with the
same angle heavenward ns that of the entrance passage is hellward. It is a most expressive symbol of a apecial and effective interposition of God to raise men up from their decline toward destruction, and thus furnishes us with a monumental testimony to the whole Scriptural representation of that economy.

But the Mosaic dispensation was only intermediate and preliminary to something greater and higher. Hence that upward passage suddenly enlarges into a far more magnificent nocending opening. The top abruptly rises to seven times the previous beight, and everything is correspondingly exalted into the Grand Gallery. This is the symbol of the Christian era-the grandest section in all the scrolls of human history. It hegins at the inch which marks the Soviour's birth. Thirtythree inches from that beginning briug us to the startling symbol of death, burial, deacent into bell, and resurrection from the dead,-to that fearful "well" with its heavy stone covering hroken out by an upward force which tore away e part of the wall itself, "for it was not possible that he should be holden of death." The entire length is covered with thirty-six overspanning stones, the number of months of Christ's public ministry. And beyond is
the granite King's Chamber in which all connummates. And there the polished walls, fine materials, grand proportions, and exalted place, eloquently tell of glories yet to come. It is the chamber of fifties, which is the grand jubilee number.
Nay, for those Gentiles who never knew of Israel's worship and ascred hooks there is also a word of hope inserted. They are not necesaarily nill lost. From the lowest depths of Ethnic apostnsy the Great Pyramid still indicates a way up through the atoning death of Christ to the celestial blessedness. It is a steep, tortuous, difficult, dangerous, nud uncertain way, not likely to be found and safely traversed by many; bat it is there. It is a speaking syinbol of what the inspired Apostle declared so long afterwards, that "in every untion he that feareth God and worketh right eousness is accepted of him," accepted through the mediation of Christ.

Here are symbolizations of sacred bistories whose warp and woof is miracle. Here are expressions the soul of which is the same Divine breath which animates and fills the Testameats of God. Here are heavenward pointings and indications of the way to eternal life as distinct and gracious as those which
mark the holy Evangely itself. It is the Gospol pronounced in stonc. It is the testimony of "Jesus and the resurrection" put up in imperishable rock. It is redemption memorialized in marble mure than twenty centuries before the Christ was born! Could it be mere accident? Was it not rather the dear God above us laying up the sublime things of his grace in enduring lithie records whioh man could not alter nor time destroy to demonstrate to the skeptics of our day how unreasonable and inexcusable is their unbelief?

## Tge Pyramid and tee Day of Judguent.

The Bible moreover tells of a nearing day of judgment-a time when the Almighty power that made us will reckon with us concerning these cartbly lives of ours, and deal out destiny according to the uses we have made of them. In all its addresses, whether didactic or prophetic, $\rightarrow$ whether to warn the wicked or comfort the pious,-whether for the vindication of God or the foreshadowing of wbat is to become of man, -the Bible everywhere refors us to an approaching crisis, when the principles of eternal justice must go into full effect, when the trampled law will inexorably enforce its supremncy, when everything must be righted
up, and all that is adverse to truth and gool be forever blasted; when faith and virtue shall be rewarded and enthroned, and all else sink overwhelmed by a majesty which nothing can withstand. It is described as a time of sorrow and unexampled distress for the unbelieving world-a time of fears nnd plagues nad great tribulation to all but God's watching and ready ones, to whom it shall be a day of glorious coronation in heaven. Its coming is apoken of as sudden-when men in general do not expect it-when many are saying, "Pence nnd anfety." Like the flood upon the old worldlike the tempest of hnil and fire which overwhelmed Sodom nad Gomorrah-so shall it come upon the nations. When men thiuk not, the Son of man cometh. And all this too is solcmnly pronounced hy the Great Pyramid, That Grand Gallery stops abruptly. It is suddenly cut off in its continuity. From a splendid passage-wny twenty-eight feet in height it ceases instantly, and the further passage is less than four feet. The floorline then no longer ascends. A ponderous double block of frowning granite, hard and invincible, hanga loose over the low nad narrow pass now. In the same antechamber in which it hanga, the rules, measures, and weights appear engraven
in majesty upon the imperiahable granite, for every one to pass under. The tokena are that now judgment is laid to the line, and rightcousness to the plummet, that every cover may be lifted, and every refuge of liee swept away. Everything here indicutes the inexorable adjudicationa of etemal righteonsness.

And that solemn time ia elso everywhere represented as now close at hand. As far as theologians have been able to ascertain, all the prophetic dates are about run out. The Scriptural aigns of the end have appeared. Every method of computation points to the solemn conclusion that we are now on the margin of the end of this rge and dispensation. Nor doen the Great Pyramid fail to tell us the sarne thing. Measuring off one thousand eight hundred and seventy-seven inches from the beginning of the Grand Gallery for the one thousand eight hundred and seventy-seven years since the birth of Christ, there rerain but a few inches more to bring us to its end. So likewise when we go forward on the dial of the precessional cycle to obeerve the condition of the heavens when the last of these inches is counted off, the astronomical indications are correspondingly remarkable. The Pleindes which were on tbe meridian when the Pyra-
mid was built are then Car to the east, with the vernal equinox at the same time precisely the same distance from that meridian to the west, whilst the distance from one to the other measares the exact age of the Pyramid at that date. At the same time a Draconis will again be on the meridian below the pole, but then just seven times lower than at the time of the Pyramid's building. This final downwardness of seven times is atrikingly suggestive of the Dragon's complete dethronement. And what is still more remarkable, whilat a Draconis is on the meridian at this low point, Aries, the Ram, appears on the meridian above, with the line, passing exactly through his borns! A more vivid astronomical sigu of the overthrow of Satan under the dominion of the Prince of the flock of God it is not possible to conceive. It is as if the very heavens were proclaiming that then the ever-living Lamb takes to him bis great power, aud enters upon his glorious reign!

## The Pyramid and tee Jew.

It is the opinion of many earnest believers in the Scriptures that God ia not yet done with the Jews as a distinct and peculiar people. As a nation they rejected Christ and fell from
their high pre-eminence, and are now on pre. cisely the sanne footing with the Geatiles with regard to the Christinn dispensation. There is no way of snlvation nor any special privileges for them now other than the Gospel offers to all mea alike. Through the atonement of Cbrist and union with him, there is redemption for their souls the same as others, but in no other way. But the belief of many is that they are preserved in their aingular distinctness, even in unbelief, as the subject of a grand restoration and conversion when the times of the Gentiles are fulfilled, and that blindness in part has happened unto them, in which as a people they will remain till the time of the revelation of Jesus Christ at his second coming. And to this belief the Grent Pyramid would alao seem to anawer in a very marked manaer.

A special national token of the Jew is the sabbatic system. It was given of God, and made to pervade the whole Jewish economy na a thing by which the chosen people were to be distinguished from all other aations, and in the observance of which they were to exhibit themselves as God's people. Disregard of this was held to be treason to their King, and a forleiture of all their rights to the promises

And this sabhatic system is specially characteristic of the so-called Queen's Cunmber and the horizontal passuge leading to it.

They reached their highest point when of them Cbrist was horn. The same unbelief by which they then were broken off they have ever since retained. Hence the avenue which I take as a symbol of their history from Cbrist'a time is horizontal, except, that the last seventh of it drops lower than any other part. If the latter chapters of Ezekiel (from the thirtysixth onward) and many other passuges are to be literally taken, and there is great difficulty in understanding them in any other way, there is to come for Ierael a grander restoration than that of their return from Babylon, when they will be re-established in boliness according to their ancient estate, and all their early institutes again be righted up and put into full effect. Hence this low horizontal passage terminates in a grand sabhatic room full of the most important notations of the measures and proportions of the whole Pyramid.

Those who bold to this restoration of the Jews hold alao that they will be returned in their present unbelief and blindness as regards the true Messiah, and will only afterwards lave the scales removed from their eyes after
the manner of Paul, who in this respect was as one born before the time. And tbis also would seem to be distinctly set forth. Two ventilating tubea have recently been discovered in the so-called Queen's Chamber, which the builders left entirely closed over with a thin unbroken scale, which not only shut them from all observation bat rendered them of no practical effect whatever. The room has therefore always been noted for its foul air and noisome smell, for the atmoephere there was lelt without circulation for fuur thousand years. There tubes extended inward through the masonry and into the stones forming the walls of the room, all nicely cut, but for about one inch they were not cut through into the room itself. On the hidden sides of tbe walls these airchannels were open, but on the visible sides within the room the surface was smooth, even, and unbroken, the anme as any other part. It was only hy something of an nccident that these scales were broken and the channels opened into the room itself. So singular an arrangement could have none other than a symbolic intent. No urchitectural reason for the pecoliaritycan atall be traced. And most strikingly would it gerve to signify the blindness of the Jew, and hia dendness in unbelicf, needing
only the brenking away of those scales for the free breath of God to purify everything ngain. And if this is the meaning of the symbol, it accords precisely with the idea of the re-eatablishment of the Jewish nationality before the great conversion, and that this breaking away of the disabling and defiling scales of blindness and unbelief remains to be accomplished after entrance upon the state symbolized by tbis room. And even then it is only renoved by a brenkage and violence entirely diatinct from the ordinary course of things, which would also be fulfilled in case the general conversion of the Jews is to be brought about after the manner of that type of it exhibited in Panl, who was converted as no other man ever has been by the personal apocalypse of tbe Lord Jebus.

It is also fully agreed by those who hold to the belief of a restoration of the Jews, that they will then be lifted spiritually far above the dead level which has claracterized tbem ne a nation since the fall of Jerusnlem, and that quite a new, higher, and holier spirit than they ever experienced before will then be breathed into their ancient ceremonial. And the same would seem to he symbolized in this chamber. It bas no proper floor, and is entered
from a very low plane, even lower than the avenue in general. Butinside there ia a baseline marked evenly around it at a range with the square top of the entrance passage, indicating a grand lifting up after having entered. It is in the relative spaces above this line that the sabbatism and exalted proportions and commensurations of the npartment appear.

This opensan entirelynew field in pyramid interpretations, which calle for a more enlarged and thorough examination. But what does that horizontal sabbatic passege, atarting from the tevel of Christ's death end dropping lower in the last seventh of its floorline, mean, if not the Jew who has risen no higher since the rejection of his Messiah, but has fallen lower of late by his rationalism, though still preserving his distinctness from all other peoples? What can that remarkahle, separate, sahhatic roon mean, if not intended to set forth a separate and peculiar eartbly destiny of the Jew? And what can that grand uplifting and the breaking through of those tbin stoppages of the ventilation signify, if not the requickening by the Spirit of God which is promised to the Jew for the sake of his fathers, when once he shall look upon him whom he has pierced?

## Tae Pyramid and Meaven.

The crown of Chriatian theology and hope is the doctrine concerning heaven, the residence of God and his glorified people. When the Sepiour left the ebrth, he baid, "I go to prepare a place for you." Abraham looked for a permenent city. Paul spoke hopefully of "a building of God, a house not made with hands, eternal in the heavens." John beheld and wrote of "that great city, the holy Jerusalem," even "Jerusalem the golden," of which the Church ever sings with such fondness and delight. And this too is symbolized in the Great Pyramid. If nothing else, the granite chamber in which the dispensations of this world terminate may serve to tell of it. But that chamber eems rather to relate to the consummated eartbly than to the heavenly. There is reason to believe that another and superior chamber exists in the mighty edifice, more fully answering to the celestial city. The sabbatic chamber is on the twenty-fifth course of the masonry, and the granite chumber on the fiftieth. To make up the complete count there would have to be a third on the oue bundredth course, corresponding to "the third heaven." The Apocalypse, that book of the
consurnmationa, seems also to call for such a chamber. As "the seved churches" under "the seven atars" are found in the Grand Gnllery, and the judgnent dispenantion in the ante-room leading to the granite chamber, and "the great tribulation " in the granite blocks which hang over the passago-way through that ante-room, there would need to be another and higher apartraent to answer to the heavenly Jerasalem, which tbe Apocalypse introduces as the crown of all. The piles of ancient rubbish from the building of this pyramid which cover the brast of the hill salso add their indications of another chamber of grander matcrials than the others, and hisber up in the edifice. After a rain Prof. Smyth paced about anong the gutters which the wash cut into these piles of chips and aplinters of stone, to see what he could find. "Towards the top of the herp and just in front of, though at a great distance from, the Pyramid's entrance portul," he found " frequent opliaters and fragments of green and white diorite." This is a compact, very hard, crypto-cryatalline formation, whilish, speckled with black or greenishblack. It is the materinl of which the celebrated stone atatue now in the Boolak Museum . is cut. It is not native to the pyramid region,
and could only have been brought there from far, whilst the number of these spalts and fragments intermized with the earth and other chippings and offal in the process of this pyramid's building would indicate some extenaive use of that excellent material in this structure. Their occurrence near the top of the furthest distance of these piles from the Pyranid would show that the use made of this rock was high up in the edifice and toward its completion. But in none of the present openinga has anything been found made of diorite, or anything like it. Therefore, Prof. Smyth, in debating over these fragments, says, "I was compelled to gaze up at the Pyramid with ita past bulk, and believe that there is another chamber still undiscovered there, and one which will prove to be the very muniment room of the whole monument."*

And even the way to it may perbaps be found from a suggestion wbich I draw from the Apocalypse. The numberless multitude before the throne of God (chap. $7: 9-17$ ) corues "out of the great tribulation," and if those granite blocks suspended over the way through the ante-room to the King's Chamber denote the great tribulation, as they so expressively do,

[^27]the way to a room symbolic of heaven would seem to be directly from those blocks, just where nobody has ever searched for it Those blocks hang in grooves, and have a hoss or knob left on the side es if meant to be silid up for a purpose; and the vision of Jobn would seem to imply that the lifting of them would uncover the way to the room which would be the aymbol of glory, A light bore with a rod so directed as to strike behind those blocks would probably revenl whether or not there is such a passage from either side at that point. And uutil the facts are ascertained by adequate examination, I am inclined to believe, from generul analogy and from the correspondence in all other points with the Bible, and especially with the Apocalyptic outlines, that behind those blocks will be found the way to unother and superior chamber, situated in the upper centre of the building on the one hundredth course of the masonry. I also anticipate that when it is discovered it will present an exact square, sixteen pyramid cubits every way, with perhaps three distinct entrances on each side, and answering in its prophetic readings to the twenty-first chapter of the Book of the Reyelation. Of course this is only a hypothesis, a theoretic persuasion which needs
to be tested by further explorations, but it rests on considerations sufficiently strong to beget in we the belief that it will be verified in fact. Heuce I have had the place and priportions of such a room indicated on the diagram.

The Pyramtd and the Spiritoal Uniyerge.
But man is not the only rational creature Gud has made. As the interval below, between him and nothing, is filled up with uncounted orders and forms of being, so on rational as well ar Scriptural grounda it is part of our common faith that there are many intellectual and spiritual orders above, between him and the infinite Creator. These rank in series over series of angels and archangels, seraphim and cherubim, principalities and powers. And ns the Pyramid is a Seriptural image of the Church, so it is also of this whole spiritunl universe. Galloway, in his Eyypt's Record of Time, has noted that "the ascending scale of natures above man wha revealed to Jacob in vision. The collective nature of man is, as it were, at the basis of a mighty pyramid of upiritual natures ascending by buccessive atages to one glorious apex, from which the whole derives unity, from which the whole bas pro-
ceeded, und on which it depends for existence. This glorious spiritual pyramid nppears to be that which was revealed to Jacob at Bethel, when a solitary traveller on his way to Padan Aram : e mighty ladder or scale of being ascending from man to the highest heaven; a sublime idea of the spiritual universe proceeding from one, and built up into one glorious head, a world not of groas and dead materials, but of living spirit and flame, full of the adoring love and active service of God, at the summit of which the presence of Jehovah was beheld revealed " (pp. 339, 340). And this grand, striking, and truthful conception of the universe bound together and headed up in One supreme original of all, we have here in material form, consolidated in stone, worthy in some measure too of the eternal vastness and magnificence of the subject.

Thus then the Great Pyramid anawers throughout to ell history and all Revelation. The substance of hoth Testanents and all the dispensations of God toward man are here traced in unchanging rock, more than five centuriea before Moses. How came these things into this pile, and nowhere elae on earth hut in the Bible? Whence came this sublime science before the days of science,-this knowl-
edge of all history then onlyin its beginnings,this understanding of all sacced doctrines and prophecies before all other existing records of them? By what marvellous eccentricities of chance originated these monumental prophecies, this prebistoric picturing of coming ages, these symbolizations of the mysterious Providence of God toward our world for four thousand years, this fore-announcement of the end from the beginaing, this sublime petrifaction of the divine word ere ever a clapter of it wis traced in our Seriptures? When we find these things in the Bible written long afterwards we call them inspired. What then ahall we call thern whem we find them all securely laid up in stone bundreds and thousands of yenre anterior to that Holy Book, and now opened to us with superadded marvels upon which the Bible scarcely touches? I know not how others may be impressed, but I feel as if I would be shutting my eyes to trath, auppressing the force of evidence, and withstanding demonatration, did I not joyfully admit and embrace the fact that we have here a precious memorial from the same blessed Jehovah from whom we have our glorious Bible, erected by some chosen people whom his own Spirit guided, and at the same time a most
ancient monumental witness to all the holy truths and histories.

And yet the subject is not exhausted. There are various other interesting matters to be considered, all teuding to the same conclusion; but I cannat enter upon them now. Reluctantly, I must close again without reaching the end of what needs to be alid in a proper presentation of the case. Only one little item more, which seems to belong here, will I yet notice, and with that I conclude this lecture.

## The Pyramid and Jerosaleh.

If this Pyramid is what it would thus seem to be, it would be natural to infer that it ought to have some connection with or reference to Jerusalem. All the institutes and revelations of Gud bed their chief centre there for more then a thousand years. God made it his own sacred metropolia, the only one he evor had localized upon earth. There his only teinple stood. There his holy law wis deposited. Thither his people were required to come for the celebration of their most distinguishing services. There was the royal seat of his chosen kings. There was the sacred capitol of his consecrated priests, of his inspired proph. ets, of his holy scribes. There the glorious

Messiah presented bimself to the elect nation. There he died for the sins of the world. There he rose triumphant from the dead. There he necended into herven. There he poured out the Holy Ghost. There be inaugurated the Christion Cburch. There he sent forth his inspired apostles for the conquest of the world to the religion of the cross. Nay, there he is to appear again when he comes the second time as he has promised. And if the Great Pyramid belongs at all to the great system of God's redemptive interpositions it could hardly he wanting in some reference to that "city of the Lord, the Zion of the Holy One of Israel." So at least it appeared to me, and led me to search for the missing indications. I knew that the Pyramid's most distinguished cubit answers to the sacred cubit of Moses; that the capacity measure of the Pyraroid's granite Coffer is the same sa that of the Ark of the Covenant; that the sabbatic system of the Jews is distinctly noted in connection with the Queen's Charnber; and that the molten sea lad proportions of earth-commensuration which also appear in the size of the Pyramid's main chamber. These are indeed remarkable and significant coincidences, but they do not give so direct a reference as I thought ought to exist.

It hence occurred to me to ascertain the easact direction of Jerusalem from the Great Pyramid and to try whether it would fit to any of its interior angles. Having uged two different mips to make sure of accurncy, the result came out exactly the same in both, namely, that three of the main inside angles of the Great Pyramid applied to its north side castward, point directly to Jerusalem! If a cannon-ball were shot from the Great Pyramid's north side at the precise angle eastward as that of the entrance passage computed with the base-line, or that of the main ascending pasenge computed with the same line, or that of the Grand Gallery computed with the passage to the Queen's Chamber, that ball, could it reach so far, would strike the Holy City!

Of itaelf this might be passed as of no special aignificance, hut taken in connection with what has been developed in this lecture, the unexpected discovery induced a feeling as if the half-smothered pile with all its burden of centuries suddealy arose out of its sands and rubbish, lifted up ite stony hand, and looking the very image of old time, pointed its heavy and half pendent finger to the city of Melchisedek, David, and Solomon, seying as with a voice out of the bottom ages, "Look over
there! Savants of the earth, and all ye that inquire, go yonder! There observe, listen, and wait, and ye shall know whence $I$ am, and whereof I witness!"
"Abd I heard a loud roice 狍ing in Heaven, Now is come salpation, und atrength, and the kingdom of our God, and the power of His Cbrist: fur tho eccuser of our brethren is cats down, which accubed then before our God day and night.
"And thay "wercese him by the blood of the Lamb, end by the word of His lestiroong. "一HEF. 12: 10, 11.

## Eecturt Whitd.

AKALYBIS OP TBADITIONS, OPINTONB, AND RESOLTE.


HATEVER may be ultimately concluded respecting the origin and intent of the Grent Pyramid, it is certainly one of the most astonishing works ever produced by man. Apart from all else, the coincidences between it and our most edvanced physical aciences, together with the thorough correspondence between it and the Scriptures, as pointed out in preceding lectures, establishes for it a wonderfulness if not a sacredness unequalled by unything outside the aphere of miracle. But the history of traditions and opiaions concerning it is quite as remarkable as itself, and alsostrongly confirmatory of the conclusions towards which we bave heen advancing. To show this and to indicate some of the attendant results is what I propose in the present lecture.

It is a singular fact and not without signiticance that whilst this oldest, largest and highestedifice of atone ever piled by human hauds
luna been before the eyes of the most intelligent. portions of the race for more than four thousand years, the learned world has not yet been able to aettle what to think of it. Strange to say, it has alwaye been a puzzle and a mystery.

## The Ancient Thaditions.

The Jews up to the Saviour's time had a cherished tradition that this Pyramid was huilt before the flood. Josephus, the learned scribe, gives it as historic fact that Scth and his immediate descendants "were the inventors of thet peculiar aort of wisdom which is concerned with the heavenly bodies and their order. And that their inventions might not be lost before they were sufficiently known, upon Adam's prediction that the world was to be destroyed, they made two pillars, the one of brick, the other of stone. They inscribed their discoveries on them both, that in case the pillar of hrick should be destroyed hy the flood, the pillar of atone might remain and exhihit these discoveries to mankind." He also adds, "Now this (pillar) remains in the land of Siriad (Egypt) to this day." (Jewish Antiqwities, i, 2.) Such an ides so strongly rooted in the mind of God's chosen people is very noteworthy, to say the least.

The Arabians had a corresponding tradition. In a manuscript (preserved in the Bodleina Library, and tranalated by Dr. Sprenger) Abou Balkhi says, "The wise meu previous to the flood, foreseeing an impending judgment from beaven, either by aubmersion or by fire, which would destroy every created thing, built upon the tops of the mountains in $\mathrm{O}_{\mathrm{p}} \mathrm{per}$ Egypt many pyramids of stone, in order to have some refuge against the approaching calamity. Two of these huildings exceeded the rest in height, being four bundred cubits high, and as many broad, and as many loug. They were built with large blocks of marble, and they were so well put together that the joints were scarcely perceptible. Upon the exterior of the building every charm and wonder of phyaic was inscribed."

Massoudi, anotber Arab writer, gives the same even more circumstantially, end says that on the eastera or Great Pyramid as built hy these ancients the heavenly spteres were inscribed, "likewise the positions of the stare and their circles, togetber with the history and chmonicles of time past, of that which is to come, and of every future event."
Anotber Arabic fragment, claiming to he a translation from an ancient Coptic papyrus,
gives a similar account of the origin of the pyramids, and states that "innumerable precious things" were treasured in these buildings, including "the mysteries of science, astronomy, geometry, physic, and much useful knowledge."

So, too, the famous traveller, Ibn Batuta, says, that "the pyrnmids were constructed by Hermes, the same person as Enoch and Edris, to preserve the arts and aciences and other intelligence during the flood." And it was by reason of fanciful exaggerations of this same tradition that Al Marnoun made his forced entrance into this edifice.

Of course these accounts cannot be accepted in their literal terms. They are manifestly at fault in various particulers. The very oldest of the pyramids, by its own testimony, was not built till six hundred years after the flood. Seth and Enoch therefore were not its builders, whatever they mny have contributed indirectly to it. Nor was the motive for it just the one alleged, though perhaps involving something of the truth. The idea of the storage of material treasures, or of literal inscriptions on the walls and stones, has also been proven erroneous, at least as to what now remains of the edifice. But where so much smoke is there is
apt to be some fire. Nearly every superstition in the world has some truth at the bottom by which it was brought into being, and there is every probability that there is here also some kernel of reality. The pyramids certainly exist, and they exist just where these traditions locate them. The great one also proves itself possessed of a marked scientific character. Much of this acience must neceasarily have come over from antediluvian times. Six hundred yeara were too short for mankind to have made all the observations bere recorded. Noah had apecial revelations in the science of measures, mechanics, and all that buperior wisdom necessary for the building of a ship larger than the Great Eastern, and capable of weatbering a wilder aud wider sea than ever was navigated before or since. What he and his fathers knew before the flood he certuinly would not leave behind when he embarked for a new world, which it was his conscious mission to people. The implements used in the building of the ark, the knowledge of their uses, and how to manufacture them, to gether with all that God bad taught or man had learned on the other aide of the flood, he took with bim into the ark, and with the sarne disemharked on our side of that awful water.

By some of his immediate descendants only a short time after the death, if not within the lifetime of his son Shem, the Great Pyramid was built. Of necessity, therefore, the science by which and to which this pyramid was fashioned, and perhaps the very tools which helped to build the ark, at least the knowledge of how to make and use auch tools, came over from beyond tbe flood, and found imperisbable memorial in this monument. Hence, though not built by Seth and the Sethite antediluvian patriarchs, there was still a real connection between it and them-between their science and what it embodies.

And even what these traditions state with regard to the intent of the huilding is not wholly without basis in renson. It is pretty clear that there was an atheistic and God-defiant science before the flood the same as now, which would necessarily create anxiety on the part of the holy patriarchs to preserve and perpeturte the pure truth as God had given it. Their religious fidelity would involve this, and we know that they were faithful in this respect. As a false worship, an oppressive rule, acorrupt aystem of weights and measurea, and a perverted life in general were set up by Cain and his wicked seed, luring the world to de-
atruction, Seth and his posterity, as they "continued to esteem God as the Lord of the universe and to bave an entire regard to virtue," held to another theology, acience, and syatem of thinges very sacred and dear to them, which they would be most religiously concerned to preserve and transmit to remotest generations. Noah as a faithful Sethite would be apecielly anxious and diligent to inculcate and perpetuate that order, his faitbfulness to which had snved him and his house when all the rest of mankind perished. The faithful among his deacendants could not but share in the same anxicties, particularly when they saw mankind again relapsing into the old Cainite Apostesy. Out of devotion to the truth of God, nothing could be more natural for them than, over ngainst the impious Babel tower, to wish for some permanent memorial to God and the sacred wisdom and teaching which they had from him. Acting thus under the holiest of impulses, especially if aided in it by divine ingpiration, ns Nosh was in the building of the ark, just such a modest but mighty acience-laden piller as the Great Pyramid might be anticipated as the reault, and the bysential import of these strange traditions thus be realized.

More Modern Opintons.
But over againat all such ideas there is a long array of the most diverse and contradictory opinions.

For a long time it has been customary to regard the pyramids as mere monuments of the power and folly of the monarchs by whon they were erected, and of the enslevement of their subjects. Pliny says that they were built for ostentation and to keep an idle people at work. Hales calls theon "stupendous monuments of ancient ostentation and tyranny." F. Barbam Zincke enlarged on the theory that "capital is bottled-up labor, convertible again at pleasure into labor or the produce of labor;" that as there were no government bonds, consols, n.nd productive stocks in which to invest in the time of the pyramid builders, they might as well invest their bnrren surplusage in making for themselves eternal monumente, or some safe and magnificent abodes for their mummies, as to conceal it in barren treasuries to tempt other people's covetousness ; and that this is the way to account for the pyramids! Robinson refers to thein us "probably the earliest as well as the loftiest and most vast of all existing works of men upon the face
of the earth," but thinks "there is little room to doubt that they were erected chielly if not solely from the vain pride of human pomp and power." Stanley speaks of them as the product of a silly ambition, the study of which can make them only " more definite objects of contempt." To such an estimate Brande has sufficiently maswered that "this is a very superGcial and prejudiced view of the matter. The varying magnitude of the pyramids, the fret of their being acattered over a space extending lengthwise about seventy miles, and their extraordinary number, appear to show pretty conclusively that they must have been constructed (in their original, at least) from a senae of utility and duty, and not out of ceprice on' from a vain desire to perpetuate the names or the celebrity of their founders."

Some trace the pyramids to Ninnod, and think they were meant to be towers of security. But the idea of a Nimrodic origin of these structures is a mere surmise, wild and - without a particle of evidence looking in that direction. And as retreats for men in case of flood or invasion, wo such structures ever could have been thought of by any rational people, and none others could have built them. Destitute of habitahle space within, incrapable in
their perfect state of being ascended, and furnishing neither atanding rootn nor shelter on their summits, they would be a poor resort for aalety in ony such emergency.

Mandeville considered them the granaries built by Joseph to store up the products of the seven years of fatness against the succeeding seven years of famine. But nothing could be more ill adapted for a purpose of that sort. They were a thouand times nore costly than the worth of all the corn they could hold, and any one of them would require more time to construct than double the number of years Joseph had to prepare for the famine. We also have the higheat evidence now that the Grent Pyramid, which alone was capable of serving in this line, was built bundreds of years before Joneph was bórn.

Others have regarded them as astronomical obaervatories, and some have even figured an inaginary base around each where the students of the ak'y might sit and contemplate like great heavenly choirs. But that such. amazing buildings all in one low place and incapable of being ascended ahould have been erected merely to furnish sittings for a few atar-gazera, for whom any rock or hillock would answer as well, is a little too much for credulity
itself. And the modern uncovering of the Great Pyramid'a finish at the base has effectunlly dispersed forever all these imaginary cloirs.

Otherg have supposed the pyramide intended as artificial barricades against the sands of the desert or the breaking forth of the Nile. But the eye of an observer sees at a glance the paltry absurdity of auch an idea. The Nile never had any notion of breaking over this hill of solid rock, and if it had the pyramids were a vain thing to hinder either it or the sands of the desert.

## The Tonb Tienfy.

A more extensively nccepted opinion now is that the pyramids were all designed for royal sepulchres "and notbing elae," which is doubtless true of most of them. It is possible also that the idea of a tomb for Cheops may have mingled with the original design of the first and greatest of them, though there is no evidence to that effect. It may have been given out for a tomb for him as a mere blind to the nation at large; hut in any event the tomb idea qever could have been more than subordinate and incidental.

We know now that this pyramid was built
during the reign of Cbeops, in the so-called Fourth Dynasty of Egyptian Kings. But it is nearly as certain that Cbeops never was entombed in it. The account given by Ilerodotus is sometimes quoted in proof that he was, but it is clearly a misunderstanding. That account says that Cbeops whe buried in some aubterraneous place wbere "the Nile water introduced through nn artificial duct aurrounds nn island." But there is not a single opening eitber in or under the Great Pyramid which is not far above the highest Nile level. That Cheops never was entombed in the so-called King's Chamber is therefore certain in so far ra what Herodotus tells about it is accepted. Personally be knew nothing. He only records what was told him, And the priest from whom he got his statement either was as ignorant os himself, or Cheope never was buried in this pyramid. Diodorus saye positively that Cheops was not huried here, but in some obscure and unknown place. For six hundred years after Al Mamoun hroke open this pyramid the Arab writers who tell of the feat, alay not a word of any buman remains or indications of sepulture being found. Shehab Eddin Awed Ben Yahiya, on the contrary, says that "nothing was discovered as to the motive or time of ita
construction." Massoudi tells of certain findings, such as colored magic stones, columns of gold which nobody could move, images in green stone, and a cock with flaming eyes, which atories none but a Moslem can believe; but anye not a word of the finding of any man or any evidence of the use of the place as $n$ tomb. And not less than a dozen of the best European authors on the suhject, from Helfricus to Sir Gardiner Wilkinson's Guide Book to Modern Egypt, though some of them believe that the Great Pyramid was intended for a sepulchral monument, agree in stating that there is no proof tbat anybody ever was entombed in it.*

[^28]But if this edifice was reared to be a royal sepulchre, why was it not used as such? Very curious nre the explanations to which the tomb theorists have resorted to account for the filiure. Diodorus among the old writers, and Baumgarten among the more modern ones, say, that the people of Egypt were so enraged at the sufferiugs endured from the builders of the two greateat pyramide, and at their various violent actions, as to threaten to tear them out of their sepulchres, whereupon "they buth charged their relatives at their death to inter them secretly in some obscure place." To this Colonel Vyse has conclusively answered, "If Cheops reigned fifty years, and had sufficient power to construct the Great Pyranid, it cau scarcely be supposed that his body was not deposited in it [if so intended], particularly as his successor is said to bave reigned filty-six years, and to have erected a similar tomb for himself, which be could scarcely have done had his predecessor's tomb been violated or suy doubt have existed about the security of his own."

Helfricus and Veryard get over the difficulty

[^29]by asaigning the Great Pyramid to that Phar raoh who perished in the Red Sea while pursuing the departing children of Israel. As that monarch's body was never recovered, they say of conrse his sepulchre never was used! Still others explain that the tomb was Joseph's, and became vacant at the time of the Exodua, as his hrethren took his body with them when they went up to the land of promise. But unfortunately for these explanutions, the Great Pyramid was built some six hundred years before Moses and several hundred years before the viceroyalty of Joseph.
The truth is that the tomb theory dues not fit the facts, the traditions, or any knowledge that we have on the subject. It is wholly borrowed from the numerous later pyramids, ambitiously and ignorantly copied after it, which were intended and used for royal sepulchres, hut with which the Great Pyramid has nothing in common, save locality and general shape. In all the examination to which it has been subjected, whether in ancient or modern times, and in all the historic fragments concerning it, there is nothing whatever to give or to bear out the idea that its intention was simply that of a royal sepulchral monnment, or that can legitimately raise the tomht
theory any bigher than a possible but very improbable supposition.

Sometbing more tian a Tomb.
It is also important in this connection to mote that something wholly distinct from a mere sepulchre, or something additional and of much groater sirgificance, has always baunted the convictions of those who bave most profoundly studied this wonderful structure.

Sandys givea place to the idea of a tomb, but considers it a tomb built with special reference to the symbolization of spiritual doctrines and hopes, together with "conceits from astronomical demonstrations." Greaves accepts it for a tomb, but one framed with intent to represent spiritunl ideas. Shaw denies its tombic character altogetber, and pronounces it a temple of religious mysteries. Perry admits that it may have served as a royal tomb, but - had special reference to sacred beliefs. Jomard gave but little credit to the treasure theory of the East or the tomb theory of the West, and considered this pyramid likely to prove itself gifted with something of great value to the civilized world, particularly in the matter of menwures and weights. Wilkinson considers
the pyramids tombs, but is persuaded that some wers "intended for astronomical purposes." Mr. St. John holds them as meant for religious uses and symbolisms. Agnew takes them as tombs, hut at the same time as embodiments of science-" emblems of the sacred sphere, exhihited in the most coavenient architectural form "-a aquaring of the circle outside (which is true only of the Great Pyramid) and a setting forth of various geometric, astronomic, and mathematical mysteries inside. Sir Isanc Newton considered them sources of very important information on the subject of measures. Sir John Herschel was persuaded of the Great Pyramid's astronomical character, and found in it standards of measure which he urged England to adopt in preference to any other on earth. Beckett Denison admits it to be a highly scientifie monument of metrology, mathematics, and astronomy. Hekekyan Bey, of Constantinople, in n volume publisbed in 1863, ignores the iden of the granite Coffer being a arrcopbagus, and speaks of it as "the king's stone," deposited in its sanctuary as n record of a standard of measure. Proctor argues that it is "lighly probable" that the huilders of the Great Pyrumid sought "to represent symbolically in the proportions of the
building such mathematical and astronomical relations as they were acquainted with," and " may have had a quasi scientific desire to make a lasting record of their discoveries, nnd of the collected knowledre of their time." And since what has been written and pointed out by John Taylor, Pinzzi Smyth, Sir John Vincent Day, Rev. T. Goodsir, Croptain B. F. Tracy, Mr. Janes Simpson, Henry Mitchell, Dr. Alexnnder Mackey, Cbarles Casey, Rev. F. B. A. Glover, Hamilton Smith, J. Ratstun Skinner, and others, within the last fiteen years, we can but wonder that any one at all read up on the subject sbould tbink of withholding from this colossal monument the award of something vastly more than a mere tomb.

That subterrnacan chamber cut deep into the solid rock would seem to indicate a tonb, hut that chamber never was finished, and no one pretends that it wes ever used for sepulture. It must have been ment for some other purpose. A vast tumulus, solidly built, with but few and narrow openings, terminating in finely polished rooms in its interior, would seem to agree with the idea of a grand repulchre, but when we find in it a transceudent geodesic plan of location, equally dividing the
earth surface between the equator and the north pole, palpably marking the centre of all habitable land distribation on the globe, and giving the best meridional line for the zero of latitude for all nations, surely we ought to begin to think of something else. A square with four sloping sides built up to a point in the centre, would seem to be a proper device for an enduring royal massoleum, and hence the same wrs long accepted in Egypt for sepalchral monuments of the kings, but when we find in the first and original of them a perfect geometric figure, so framed that the four sides of its base bear the same proportion to its vertical height as the circumference of a circle to its radius, that each of its base-lines mensures the even ten millionth part of the semi-axis of the earth just as many times as there are days in the year, that its beight multiphed by $10^{9}$ gives the mean diatance between the earth mod its great centre of light, that its unit of length is the even five hundred millionth part of the polar diameter of the globe we inlunbit, that its two diagonals of base measure in inchee the precise number of years in the great precessional cycle, that ita bulk of masonry is an even proportion of the weight of the eurth itself, and that its setting and shaping are
squared and oriented with microscopic accu-racy,-nothing of which is to be found in the acores of ncighboring pyramidal tombs,-by what law of right reason are we to diamias from our thoughta every idea but that of a mere sepulchre? A poliahed stone coffer, conveniently deep, and wide, and long to accommodate the body of a man, and put up in noble place as here, would seem to bespeak n royal sercophague, but when we find that Coffer of the utmost plebeian plainness, quite disproportioned to such a purpose, devoid of all known covering, ornament, inscription or sepulchral insignia, incapable of being placed in its chamber with a body in it, is there not room for rational doubt that it was ever meant or used for a burial casket? And when we perceive in it a most accurately shaped standard of meesures and proportions, its sides and bottom cubically identical with its internal space, the length of its two sides to its height ns a circle to its diameter, its exterior volume just twice the dimensions of its bottom, and its whole mearure just the fiftieth part of the chamber in which it was put when the edifice was built, we may well wonder what all auch unparalleled scientific elaborations have to du with a mere tomb! The inclined entrance
of a fitting size to receive a coffin, and down which a coffin could be conveniently slid to some chamber in the depths below, would be in keeping with a tombic intent, but when we lind it terminating below in what never was a burial-chamber, and turaed above in a sharp angle which no coffin such as the Coffer could pass, and that entrance most inconveniently located just to bring it into the plane of the meridian at an angle to point to the lower culmination of a pole star at the same time that the Pleiades ure on the meridian above, -does it not become necessary to think of something more than a mere tomb, if not to abandon that idea altogether? All the other pyramids of Egypt were meant for tombs, but none of them have any upward passages or upper chambers. Tbe Grand Gallery in this edifice, so sublime in height, so abrupt in begianing and termination, so different from all the other pasarges before or beyond it, so elaborately and peculiarly contrived and finished in every part, is absolutely incompreheasihle on the tomb theory or on any other, anve that of a high estronomical, historical, and spiritunl aymbolism, having nothing whatever to do with the entombment of an Egyptian despot. And when we find in this edifice throughout, one great system of
interrelated numbers, measures, weights, angles, temperatures, degrees, geometric problems, cosmic references, and general geodesy, which modera science has now read and verified from it, reason and truth demand of the teachers of mankind to cense writing that "no other object presented itself to the builder of the Great Pyramid than the preparation of his own tomb."

Tbat all these things should appear in a great metrologic, scientific, and symbolic atructure, meant to menorialize the most important features of universal nature, history, and theology, we can easily underatand. But that they should turn up in what was never meant to be anything but a tomb, as Lord Valentia, Shaw, Jomard, and others have submitted, is beyoud all rational comprehension or belief. Mere literary Egyptologists, whose world of inquiry is bounded by clessic tombs, Siriadic gepulchrea, and heathen temples,-a few aneering scientists, who find bere an impediment to their atheistic philosophies, -consequential theologues and pedants, who have reached the boundaries of wisdom, -and all the wiee owls of stereotyped learming, ensconced in their hollownesses of decay, may pooh-pooh and hoot, hut if this pyramid was meant for a tomh
it is the most wonderful sepulchre ever constructed, the mere accidents of which are ten thousend-fold more magnificent in wisdorn, interest, and worth to mankind, than all the tombs and Pharaobs of all the dynasties, and all their otber works besides,-a tomb, too, to which there has now fortunately come a resurrection morning, second only to that which split open the rocks of Calvary and dentonstrated a glorious immortality for man.

## Not a Temple of Idolatry.

Brande has expressed the opinion, that "if we had aufficient knowledge of notiquity, it would probably be found that the motives which led to the constriction of the pyramids were, at bottom, nearly ideotical with those which led to the conatruction of St. Peter's and St. Paul's, and that they are monuments of religion and piety, as well as of the power of the Pharaohs." To whatever extent this was the fact with regard to the Great Pyraraid, there is no evidence that it was built for an idol temple, whether to Athor, as suggested by Mr. St. John, or to Cheops, as insinuated hy Mr. Oshurn. Certain Eastern peoples mny have made pilgrimages to it, as the Western people do now, or as the Queen of Shebs came
to hear the wiadom of Solomon. The Egyptians themselves may afterwarda have accepted it as " the great temple of Suphis," and even appointed priests for the celebration of his worship in connection with it. But that can be nuch better explained in other ways than by assuming that Cheops built it either as a tomh for his body or as a temple for the bonor of bis soul.

Egypt was a hotbed of idolatry from the beginning. Ita people began by the worship of heroes and heavenly bodies, and ended in the worship of bulls, and goats, and cats, and crocodiles, and hawks, and beetles. Their false religion was in full sway when Cheops was bora. Lepsius tells us that the whole land was full of teraples, filled with statues of gode and kings, their walls within and without covered with colored reliefs and hieroglyphica in celebration of the virtues of tbeir hero gods and their divine and ever faultless children. "Nothing, even down to the palette of a scribe, the style with which a lady painted her eyelashes, or a walking atick, was deemed too insignificant to be inscribed with the name of the owner, and a votive dedication of the object to aome patron divinity." And yet, here is the Great Pyramid, the largeat, finest, and
most wonderful edifice in all Egypt, situated in the midst of an endless round of tombs, temples, and monuments, all uniformly loaded down with these idolatrous emblems and inscriptions, and yet in all its thirteen acres of masonry, in all its long evenues, Grand Gallery, and exquisite chambers, in any department or place whatever, there has never been found one ancient inscription, votive-record, or tbe alightest aign or shred of Egypt's idolatry! In the centre of the intensest impurity, the Great Pyramid stands without spot, bleraisb, or remotest taint of the surrounding flood of abominations,-like the incarnate Son of God, sinless in a world of sinners. And to bold such a monument to be itself a temple of idol worship is like calling Christ a minister of Beelzebub.

## Historic Fragments.

Passing then to the historic fragments relating to the subject, we find additional reason for the same concluaions.

It is given as a fact, and specially empber sized, that during the huilding of the Great Pyramid the government of Egypt was atrangely and oppressively adverse to the eatablished idolatry of the nation. Cheops atands
charged on all sides as at that particular time very "arrogant towards the gods," having shut up the temples, interdicted the customary worship, cast out the images to be defiled on the highways, and compelled even the priests to labor in the quarries. Hence the indigant hicrophant whom Herodotus consulted, snid, "The Egyptians so detest the memory of these kings that they do not anuch like to mention their names." It thus appears that Cheops was the ponitive foe and punisher of idolatry nt the time this building was being put up, which fact alone wholly and forever sweeps awny ull idea of this pillar baving been erected for any idul's temple or as a votive offering to any god or gods of the Egyptian Pantheon.

It further appears from these fragments, along with other indications, that after the Great Pyramid was completed, late in his life, Cheops relapsed into the old Egyptian idolatry, became a devotee of the very worship which he had so sternly suppressed, and not only reopened the temples, but actually put forth a hook on the gods of his country, which was highly esteemed for ages after. ${ }^{\text {m }}$ How,

[^30]then, did it bappen that during the thirty or more years in which the Great Pyramid was buildiug, this man, born and reared in idolatry, and dying a devot of it, was the suppressor of its temples, the enslaver of its priests, and the defiler of its gods? The answer mny perbaps be found in another particular with which these fragments make us acquainted.
During the building of the Great Pyramid there was a noted stranger abiding in Egypt, and keeping himself about the spot where the building was going on. The prieat consulted hy Herodotus describes him as a shepherd, to whom ratber tban to Cheops the Egyptians attribute this edifice. The precise words recorded by Herodotus are, "They commonly cnll the pyrnmids after Philition, a shepherd who at that time fed his flocks about the place." (Rawlineon's Derodotus, vol. ii, p. 176.) Here is a most remarkable and significant item of information,-an uuknown but conspicuous stranger, possessed of flocks and herds, abides about the locality of the Great Pyramid for all the years it was in building, and is so related to the work that all Egypt for more tban seventeen huadred years considered him its real originator and huilder, Cbeops merely furnishing the site, the workmen, and the
materials. Nor whs he some great professional architect, whom Cheops heard of nad sent for to build him a sepulchre. The account aays be was a shepherd-a keeper of flocks-and hence of an order whose business lay in the line of keeping sheep, but not in the line of building pyramids to the order of foreign kings. He is called "Philition" or Philitis. This would seem to imply that he was one of a peculiar and special religious brotherhood, or that he was a Philistian, -one who came from or located in Philistia.

There were several classes of Philistines, different in religion and race. The Philistines of Jewish times are of unsavory odor. But it was not so with certain earlier Philistines whom the Scriptures mention with honor as a people specinlly favored of Jehovah. When Israel was on the way to Canaan, in order to revive their drooping confidence, God told thern of a much earlier people whom he had in like manner conducted up frorn Egypt. He calls them" the Caphtorims which came out of Caphtor" (Deut. 2:23). This Caphtor was the very region of Egypt in which the Great Pyramid stands, and these Caphtorims from Caphtor, God elsewhere calls "the Philistines," whom $H e$ " brought up from Caphtor."

# （Arios 9 ：7．）So that not only from Herodo－ tus aud his informant，but from the Bible itself，we learn of Philistines once in the neigh－ borhood of the Great Pyramid，who were the objecta of the Divine favor，and whom God brought up from thence，as be long afterwards hrought up the children of Israel．＂ 

[^31]
#### Abstract

There is also another remarkable fragment bearing on the subject. Manetho, an Egyptian priest and scribe, is quoted by Josephus, nad others, as saying, "We had formerly a king whose name was Timaus. In hia time it came to pass, I know not how, that the Deity was displeased with us; and tbere came up from the Enst in a strange monner men of an ignoble race, who had the confidence to invade our country, and easily aubdued it by their power without a battle. And when they had our rulers in their hands they demolished the temples of the gods." (See Cory's Fragmenis, p. 257.) This Timaus of Manetho is doubtless the same person as the Chemmes of


[^32]Diodorus, the Cheops of Herodotus, and the Chufu or Suphis of the monuments. The desoription is peculiar, and though tinctured with Egypt's proverbial hatred to this clams of shepberds, indicates a wonderful influence won over the king by purely perceable meana, which could hardly have been less than supernatural. Manetho himself refers it to the pleasure and displeasure of the Deity, and further adds, that this people "was styled Hyksos, that is, the shepherd kings," and that " воme say tbey were Arabians."*

Mnnetho wrote about three hundred yeara

[^33]before Christ, and his statements are somewhat mixed with the history of anotlier set of shopherd kings of a long-suhsequent dynasty, but the ground of the story belongs to the period of Clieops and the Great Pyrnmid, for it was then that this peaceable control was obtained over the reigning sovereigns by a aliepherd prince, the temples closed, the gade destroyed, and the people oppressed with lahor for the government. Manetho says that theae "Arabians" left Erypt in large numbers, but instead of going to Arabia, they went up to "that country now called Juden, and there built a city and named it Jernsnlem."

It would tbus appear that the shepherd prince counected with the building of the Great Pyraraid wha from Arabia, and subsequently located in Paleatine (Philistia), bence probably called "Philition"-the Pbilistian. Tbe connection of him with the building of Jerusnlem is very remarkahle, and may serve to identify him with some Scripture character. Josephus quotes the passage as referring to the Jews, but that can hardly be the case. The Jews did not originally huild Jerusalem. They did not even bave possession of it till the time of David, about five hundred years after the Exodus. Jerusalem existed, and wore at
least a part of its present name, full a thousand years before David. As early ns Abraham's time it was the reat of a great king, to whom Ahraham himaelf paid reverence and tithes, and from whom he accepted blessing and communion, as "priest of the Most High God." With reference to his character and office, the Bihle calls him Melchisedec, plainly a descriptive and not a proper name, be being first "king of righteousness, and after that also king of Salem." (Heb. 7: 1, 2.)

## Who was Melohisedec?

An illustrious personage thus breaks upon our notice with all the sudden grandeur of the Great Pyramid itself. Who he was has been something of a question for thousands of years,-a question which perhaps cannot be positively answered. Kohlreiff, in his Chronologia Sacra (Hamburg, 1724), as cited by Wolfins, identifies this personage with tbe patriorch Job. There is also more to sustain this view than any other ever presented.

The time is the same. On general internal evidences, Dr. Owen (in Theologoumen.), assigns the Book of Job to the period immedintely preceding Abraham. The length of Job's life places him in the pre-Abrahamic age of Serug;

> Reu，and Peleg．＊He evidently lived before the Exodus，nad before the destruction of Sodom nud Gomorrah，for though the Book of Joh refers to Adam，the fell，and the deluge， there is no allusion whatever to the awful disaster to the cities of the plain，the Sinaitic laws，or any of the miraculous events of Israelitish history．Such an omission in such a discussion，in the vicinity of these great

[^34]occurrences, could not happen if these events had preceded it. Job speaks of the rock yielding him a apring of mineral oil ( $19: 6$ ), and such oilsprings there evidently were in the region of Sodom and Gomorrah prior to the great burning of those cities, and the earth under and about them; but they have never since been found. Moses alludes to the same, but only by way of metapbor drawn from the Book of Job, for no such circumstance ever literally occurred in the bistory of Iarael. Those oilspringa were drained and exhausted when those cities hurned. Besides, sundry astronomical calculations made from notices of constellations contained in the Book of Joh fix the time of the patriarch's great trial contemporaneous with Melchisedec.*

[^35]The country of the one is also that of the other. Abraham met Melchisedec in Palestine, but no one claims that he was born and reared there. There were important Shemitic migrations hitherward prior to that of Ahraham. $\dagger$ In the Chromicon Puschale the tradition


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precessional cycle, and anys that it fixes the epoch of Job'a trial in the jear 2188 B.O., which would be juat thirty-foar year after the building of the Great Pyramid. Dr. Brinkley, of Dublin, repeated the caleulation, and brought it out wompmere about 2180 B C. Dr. Bales adopta the calculation by Brialley, sod refera to another calculation on the semedsta hy Ducoutants in a Theais published in Paris, in 1765, which givea the asme within fryly-two yedrs. Such a moincidence, baya Wernys, is very etrikiag, and the argumenit deduced from it, if well founded, would amount nearly to a demnatration. $\dagger$ "The primeval Cunanites Fore of the race of Ham, and no doubt originally apoke a dialect clotely akin to tha Rgypien, but it is clear that before the coming of Abraham into their country they hed hy some mana become Shemitized, siace all the Canamitigh agmes of the tirae ere pelpably Sbemitic. Probebly the movements from the country about the Pereied Gulf, of which the hielory of Abrehem furvishea an ingtance, bed been in progrega for mome time before be quited Ur, and an influr of emigrents from that quarter had made Shemitism slrasdy predominant in Ryris end Paleatine at the date of bia errival,"一Rawliason's Aerodolus, vol. i, p. 597.


Kofld, in bie Fiat of Irrael, arguas to the amme effect He謟y, "It is clear that there was bere a primitipe peopla which once exbendud over the whole leod of the Jordan to the left, and to the Euphrates on the right, and to the Red See on the nouth," and that "thabe people," who bad very largely dieplaced the old Canagatite in Paleatine, "Wore of Ebconitio race."-7ol. i, p. 281.

Hence, an Wilking oberree, Abrahem on bis arrival found tbe population consisting at least in a very large meanure, of
is received with strong assurance, that Melchisedec, like Abraham, came from beyond the Jordan. Nor is there any doubt of Job's having come from that anme mysterious " Erat."
In general character and position, Job and Melchisedec appear to be one and the aame. Paul calls on his Jewish renders to "consider how great this man (Melchisedec) was," and of Job the sacred record is, "This man was the greatest of all the men of the East." Melchisedec whe " priest of the Most Higb God," and of Job it is written that he sent and offered burat-offerings for his sous and daughters " continually." Melchisedec was a princely personage-"King of Salem;" and all agree in assigning a princely rank to Job. It remains a question till now, whetber he was not a real "king;" many maintaining that he was.

[^36]He certainly was at lenst a great emir. Mel. chisedec was a worshipper of the one true God, outside of the Abrahamic line, and the same is true of Job. From these and other coincidences it would seem that in Melchisedec, King of Salem, we do really meet the great patriarch of Uz , near the end of those one hundred and forty yenrs of glory which sacceeded his sore affliction.

The genealogical tables also supply a name which would seem to indicate the existence of an Arabian Job, wbo appears at the right time and in the right connections to be this arme identical patriarch. In the tenth of Genesis, the sacred historian departs entirely from his usual method, in naming the thirteen sons of Joktan, as if for the special purpose of reaching the last in the list.* He sets down

[^37]that name as Job-ab, which is quite capable of being read father-Job, in allusion to some such position and career as that of the great patriarch of Uz , or Melchisedec. Alterations were likewise made in the names of Abrahrm and Sarah in allusion to their special calling and office. The seventy translators from tradition, most of the Hebrew authors, Origen, the Coptic version of Job, the Greek fathers, and various modern writers, represeat $J u b-a b$ and $J o b$ as one and the same name. In that case we would here have a Job, a veritable Arabian, a descendant of Eber (through Joktan, as Abraham through Peleg), and bence a true Helrew in the older and wider sense, who answers well to all we know either of Melchisedec or the Uzenn patriarch.

From Job we have the most unique and independent book in the sacred canon-the sub-

[^38]limest section of the inspired records,-e grand monument of patriarchal life, manners, and theology,-evidencing a knowledge of earth and sky, of providence and grace, and a command of thought, sentiment, langunge, and literary power, which no mere man has ever equalled. In it we find a familiarity with writing, engraving in atone, mining, metallurgy, bailding, slipping, natural history, astronomy, and science in general, showing an advanced, organized, and exalted state of society, nnswering exactly to what pertaing ahove all to the sons of Joklan, whose descendants spread themselves from Upper Arahia to the South Seas, and from the Persian Gulf to the pillars of Hercules, tracking their course as the first teachers of our modern world with the greatest monuments that entiquity contains.

## Ter Peimitive Civilazrs.

It has become the fashion to refer all this to Arabian Cushites, or a people of Hamitic blood, but it is one of the blunders of the would-be wise. Becase the neme of Cush, usually rendered Ethiopia, became early attached to some undefined portions of Arabia, and because the children of Canaan originally settled in Palestine, therefore everything relat-
ing to prehistoric Arabians and dwellers along the Mediterranean shores must needa be credited to the children of Ham, though it should leave to the Shemites acarce a place on earth! Such a theory may have its day, but there is every evidence, biblical and secular, literary and monumental, that tbe greatest and mightiest population of the ancient Arabia was mainly, if not excluaively, of pre-Abrahamic Shemitic stock. The tribes which possessed it were mostly of the seed of Joktan, son of Eber, till the descendants of Abralam through Esau and Ketural, and the descendants of Lot, began to fill in from the northwest." These Joktanites were the true Arabians, and the superior people who occupied the most important portions of the country, populated its shores, gave it their Heberic language, cultivated every interest of human society and greatness, planted their colonies in Eastern Africa, around the whole eastern coast

[^39]
# of the Mediterranean, and westward as far ay Carthage, the Guadalquiver, and the shores of the Atlantic. They were <br> The true ancient Erythrman atock, <br> E'en that age rece wbo trat enayed the deep And wifted merchandise to court anknown; <br> The flrat great foundere of the world, Of cilies, snd of mighty gtotes, end who flret viswed The atarry lighta, and formed them into achemes." 

[^40]
## Nor does it argue anything against Job's being Joktan's son, that in the Mosaic or sub-

Dikla what the father of a great tribe of traffacars in aromatice,

Obal peopled the southern extremity of Arebia, whenco colonien crossed the Btraite of Babelmandeb, and took ponesssion of the bug still called efter him, the Avalitie, His dencendnote were great marchanta, and carried on largo trade in the best myrrh, and other odorous drugs, blao in ivory, lortoigeshell, tin, whent, and wine.

Sheda was the falher of one of the triben of the Babeans. There was a tribe of Cusbite-Sabeano, whose vulgar depredations are referred to in the Boot of $\mathrm{Job}_{\text {, }}$ and algo a intar tribe headed by a son of Jokohan, grandson of Abraham The JokLenic Sabennh were luetbad near the Hed Sea, and were the richeal of all the anciant Arabiana in golds silyef and precious alones. Fzekiel mentions tbem as trading with anciont Tyre. They wero motallurgish, lepideries, and dealers in all rare luxuries. They were among the wiseat and most intelligent, as Well as the richeat and mont enterprising of ancient propien. It wes their queen who came to hear the wiodom of Bolomont and from among them, secording to the Rgyptian aceounth, there came up delegations Lo pisit qual wiew the Great Pyramid as if comprebonding and revereneing it 的 no Egfptiane ever did.

Ophir is the very word for wealth, and from the name of the decendunts of this son of Johtan, wo have our word magazine, illustrative of their consequance as bankers and depositaries of Lreasures. From them Golomon got almug trees for pillers to the teraple, brougbt in the shipa of Hiram, bimeelf being of this samo Juktenic blood and language.

And with Job to eomplete the list we have bere beyond queation the man illuatrious family of people of prohistoria times.

Beldwin, in hit Prehistoria Nadions, eayg, "It would be un= feasonable to deng or doubt tbat in ages farther breve in the past thad the begimings of any old bation mentioned in our

# sequent editing of the Book of Job, his friends are asid to be from countries called afler the 


#### Abstract

anciant bistorien Aralia was the seat of a groat and iffingtíal civiliation. This fect, so elearly jndiceted in the remaiat  many problems that arige in the enurse of linguistic and archaolngical inguiry. It ia now enmitted that ther were the first civilizera and buildera throughout Wetern Adia, and they ere traced by reasios of their language, their architecture, and the inflence of thair civilization on both ahores of the Mediterranean. It te epperent that to other race did so much to develop and eprend civilization, that no other people hed auch an extonded and successful bybien of coloniation, that thay seem to bave menopolised the egenciea and ectivitige of commerce by sel and land, and that they were the lordly and ruling race of thair time. The Arabiens were the grast maritime people of the world in ages beyoud the roach of traulition. As Phagicians and Bobthern Arabiang they controlled the gens In laber timea, and they pere still the cbief napigators and tradera on the Indian Ocean wben Feaquez di Garna went to Ibdie rround tbo Cape of Good Hope."-Pp. 6i, ©t.

From Herodotas we learn that the Phasicians came from the Erythrean Sea, which he explaine to bo the Pergian Gulf, that having crosed ovar from thence thay eatablibhed themeelves on the coast of Byria on the Mediterrasean, and that their chief citice wers Tyre and Bidon. MoChanland saya thby were once bupreme throughout the Meditarranesa, and even begond the pillars of Harcules. Tyre ani forth numerous colonied and founded flourjahing commbrcial commuaitiea in Farion parth of the worid. Her marchant princes paread their dominion oper Cyprus and Crete end the amaller islands of the Archipelago in their viefnity. Theg slan mede mettementa in Pardinia, Sicily, and Bpain, bad their peraels penetrated en far ot tha islands of Medeirs to the weat, and to the Britioh Lales and the Baltic on the north. Treces aleo are found of them in Indis, Ceylon, and onvard acrose the Pacifo to the ahorea of the New World. Carthuge, for a long ticte the rival of the Roman


# nanes of some of Abrabam's descendants. Names which did not exist for thousands of 

Aryans, was the most flourisbing and last burpiving of the Pboniviar colonig. Tho renowned Hemilgar and Hanaibal wara membera of thif family, also Cadmus, who was the frat to introduce lettera into Greaca, and Ninus, the just and wien litg of Orate, who acoording to Thucydides, wan the firet Enown foundor of a maritime empife.-MeCeuglend'a Builders of Rabel, pp. Eq-56.

That the Phaniaisns werg Shemitic, and not Henites, in propen by their lagguge, which from the ingeription: they bave lefi is manifastly and incontrovertibly the eman for tho most part and in every cesa with whet fa familiar to the modern etudent é Fibrew, Ben Geonius's Sgripturw Lingurgua Phemiciae Montumenta, where that distinguished acbolar, as Gale and others have elso observed, gays "Omnino boc tenendum est, pleraquet pene omnis cum Hebrifis convenire, give redices spectas, sife werborum at formandorum et fectendorum re tionam. ${ }^{\text {" }}$

Rawlinson, in bis Easaya on Herodotur, Buneen, in bie Philosopty of Dh. Hestory, and .WYtlkins, in bis Phewicia and Israd, with every degroe of conflence ageart and muintain that the Phenicians wars Shemilea, and hence of the Joklanic lineage. Rewlineon aleo remarka that these peoplo possessed "e wonderfal ceppecity for affecting the apiritual condition of our epecied, hy projecting into the fermenting meme of bumen thougbt now and strage ideeng, eaperiaily thom of the most abstraet kind. Shemitio racea have influenced far more than any others the history of the world's mental progrese, and the priacipal intellectual revolutions which have talen place are trecesble in the main to them. "- Farontotur, p. 689.

An item of evidecoce of Melehisedec's connection mith this people in fourd in the name of the Deity given in Gen. 14: 18 , Fhare the God of Melchisadec is called, not EtooA or Elohim, but Elian, which it the Pbonician dosiguation of chod uped by Bencboniathon, the Pboniciar eage, from whom sundry fregments bave been preserved, Bee Eanrick's Phatielia, p. 288.
years afterwards are in like manner given to the country about the Garden of Eden. (Gen. $2: 11-14$. )

There is no evidence that the chief river of Palestine bore the name Jordan-River of Dan-till long after the time of Moses and Joshua, and yet that subsequent Jewish name is everywhere inserted in the antecedent records. And so Eliphaz might much more intelligibly be said in Moses' time to have been from the country then known as Teman, and Bildad from the country then known as Shuah, though they hoth lived and occupied those regions hundreda of years before Teman and Shunh were born. There may also have been an earlier Teman and Shuah whose names others long after them in some way inherited. The original name of the territory in general is preserved in the designation of the country of Joh himself, which also plainly antedates the Teman and Shuah descended from Abra* ham. From Stony Arabia to Damascus, along the whole east of Palestine, the country is called Oz . The more precise region whence Job came, likely was that portion of Arabia bordering on the east of Edom, Bouth of Trachonitis, and extending indefinitely towards the Euphrates. $D_{\mathrm{z}}$ is a Shemitic name, called

Aws in the Arabian antiquities, and denotes the region wbere Shem hinnself prabably lived and died.* Judging from chnpter $8: 8-10$, and $12: 12$, we may readily believe that Job himself saw, heard, and often consulted Shem, and got his sacred wiadom from him. In the providence of God he in a measure at least, and perhaps by special call and ordination, took Shem's place as the principal representative of the patriarchal religion after Shen's death, as Abraham subeequently, whom Melchinedec blessed and consecrated as meant to fill this office after him, till he, of whom Melchisedec was the illustrious type, should come. $\dagger$

## Job and Phelitis.

And as Melchisedec and Job were most likely one and the same person, so the same would seem to be the Philition of Great Pyramid notoriety. Job was the youngest of a

[^41]family in which was the acience, faith, and enterprise for such a work, beyond all others then living. Job was an Arabian, and a thepherd prince, just as the Egyptian fragments testify respecting Philitis. Job's account of his own grentness, doings, and successes, depicted with so much beauty in chapter 29 , grandly harmonizes with Manetho's story of the strange power of the Hiceos over the Egyptian rulers obtained "witbout a battle." He held idolatry to be a crime puniahable by the authorities (chap. $31: 26-28$ ), just as Cheopa was parauaded while the Great Pyramid was building. He was a true man of God, a puhlic instructor in sacred thinge, with whom Jehovah communicated, and whom the Spirit of God inspired." The Almighty speaks to

[^42]him in chapter 38 as if he were the identical person who had laid the mensures of the Grest Pyramid, stretched the lines upon it, set its foundations in their sockets, and leid its topstone amid songs of exalted triumph." Chap. 19: 23-27 looke like a description of the high intent of the Great Pyramid, and a prayer that it might endure with its glorious freight even to the end of the world. And the more I study the Book of Job in the light of its author's identity with the mysterious Arabian atranger to whom the Egyptians attribute the Great Pyramid, the stronger and

[^43]more satisfying to me becomes the likelihood that here is the mighty prince and preacher of Jehovah from whom we have that monument. All the facts, dates, and circumstances amply accord with the theory that "Melchisedec" was Job, and that the same was the "Pbilition" of Herodotus.

But whether such identity can be eatablished or not, the effect in this argument is essentially the same. If these three names denote three distinct persons, they all belong to the time of the Great Pyramid's erection and to the anme general community or class of people. They were all shepherd princes. They all hated idolatry, worshipped the true God, and fulfilled a sacred mission mostly before Abraham came upon the stage. And closely related to thern were others of the same faith and spirit, and scarcely inferior in digaity. Eliphaz, and Bildad, and Zophar, and Elihu, must be counted with them, and of them we may judge from what we read and hear of them from the Book of Job. From all these together we get an impression of the age and communities in which they had their homes, and what sort of men then lived and operated. What we find in them we may put
down as characteristio of their period, and from it safely reason.

## Rrsidts.

We thus learn what is indeed of very great moment, to wit, that God then had his priests and worahippers upon earth, and that they were the most princely, learned, and commanding people living. We thus learn that it was God's habit to converse with them, to direct their ways by special revelations, and to inapire them for the utterance and recording of his mind, will, and purposes. We thus learn that they were the family kindred and blood relatives, the same in language and country, with those whence the after world obtained all the original elements of science and civilization. We thus learn that with them was the competency and every qualification, both natural and supernatural, for the erection of just such ar monument of science, theology, and prophetic history, as we find in the Great Pyramid. Nay more, we thus learn that it was the subject of their apecial craving, that their worde, wisdom, and immortal hopes should be engraven with pens of iron in imperishable memorials of rock! (Job 19 : 2327.)

No matter then whether Philitia，Melchise－ dec and Joh were one，or two，or three；such mighty men of Jehovoh there were in that far－ off age．They believed in one God，and in holy angels，and in a devil，whose subtle de pravity had inoculated all natural bumanity． They feared sin，and sought forgiveness and salvation through bloody sacrifice．They hoped for a coming Redeemer，and for resur－ rection through him．They treasured the primeval recorde，traditions，and revelations from Adam down，even the same from which Moses compiled when he framed his Genesis．＊

[^44]
# Specialcommunications, teachings andimpulses from God were alao as common to these people 

indicate the time when it was writeo end ite proleable athor. Cortainly no one wer so wall qualifled to write it as Adam himself. And if be wrote gotibing, it must above ell have been thie. Ansuming sloo that he, and not Moese, wet the original nartalor, wa are greatly helped with regard to the allutiona to the topograplyy of Kden, which doubtlegs was much changed, st lenst in the apprebengions with which men Iooked upon the geography of the earth in the time of Mones, from what it was in the time of Adm. Two thougnd gearg make a wonderful difference in the atalements of a gesotheer, even with perand to the meme locsilities. The ecconnt of the temptation and fall glso become more intelligible and intaresting in ita nimplicity en Adam's own falement, than ethet of wo remota a historian as Moseg. The name for the Deity (Johomah Elohint), Jehopah Goul, in also peeajiur to this gne engtion of the dipine word.
II. Geneais 4: 1-26 in again 4 distiact monograph, the close seanting to Indicate the author, who spesks of the Deity alway under the name Jehomh. If we have angthing from Seth, this fa the nection ahove all othera that would fall to him. It is perbepe only the conelusion of en etopler record from that boly patriarch.

1II. From Enoch we oertainly have at leat a fragment whiob is preserved in the Epistle of Jude, beginning at verae 14. He unes the neme of Deity the abme as Seth.
IV. From Nogh we would aeem to hapo meperal hooks, the first inoludiog Gen. 6 ; 1-A2. ILe title ebowa ite monographio character, and ita close fidiontan when and by whom it wit writlen. It denoles the Deity exclunively by the one Dame (EHohim) God.
F. A mecond Book of Foik would aeem to be Gen. 4 : $8-22$; $7: 7-24 ; 8: 1-10 ; 9: 1-27$. None was so compelent to write this necount a be, sud the oecurranced are mo wonderful that it could berdly he otherwise then that he would , en a preacher of $^{\text {a }}$ righteonnem, beve eolomily recorded this momentous account Its end is indiasted by obrage in the aame denoting the
as to Abraham after them. (See Job $4: 12,13$; $6: 10 ; 23: 12 ; 33: 14-16 ; 38: 1 ; 42: 5-7$.

Deity in what follows. It alen edde greatly to the life character of the nurratipe to take it an from the hand of him who Whe the most deeply eoncerned in the matier.
VI. There is probubly a third Book of Noth, in the forto of en epocalyper of the cration work, given in Gen. 1: 1-81; 2: 1-8. Tha nature of thia revelation wes quito apert from any personal oxperienco of recollection, and conld an well have beed given to one prophet as another. The form of deaigoating the Deity (Etohimp) is that in the eections which appear to heve
 to bo other portions of the Btble. If in a complete monograph in itself, and can be beat conceived by reforring it to the prophat Nugh.

VIL. Genesis $4: 1-4,8-8 ; 7: 1-8 ; 8 ; 20-22 ; 0: 28,29 ; 11=$ 1-f, showf quite a difierent atyls from aither of the other aectlona. It does not appear as a continasion of the Noachian marralive, hut rather as frggacnts of an independent recount, from which Mobst hes interwoven prita to give a grester fulnese to the relord in geveral. It deaignetes the Deity (Jehovah) the amean Gath end Enogh, and not es eilher Adero or Nogh. The author evidently lived after Noah, though personsily familiar witb the aftira attending and following the deluge. Therefore, it is most probable tbal whe hep theee fragmenta from tho pltriarch Shem.

FIIL. So, Genesig 10:1-82 and Genetie 11:10-26, are plainly monographs, and as plainly from distivet gouresa. Hed Mosea been the original euthor of hath, the one would beve been made to corragpond with the other, and we would have had one eymenetrical statement of the genealogy, continuoue end digerted. The lert beare internal evidence, emountiog almost to certeinty, that it wis composed by Hber from his own pertothe knowledge, and while livigg with hif younger son Joktan. That it was written before Sodom wis deatroyed is proven by verse 19. Had it beea writlon by Mopes, he would not bave sald, "as thos goedt mito Sodom and Gomorrah,

# They had the moral and intellectual qualifications to furnish the sublimest section of the holy Scriptures. There wns no superior enlightenment, no higher civilization, no parer faith, no truer acience, no more intimate famil- 


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and Admak and Zetoim," but "an thou gocel whto the Salt Spar"," ea in Deut. 8 : 17 and elaowhere, The geneulogy in the elevonth chapler ia aleo more orderly in style, and was muat likely mado up by Terah or Abraham, from information bended down from father to son in the family from which he wes bimelr deecended.

It would be presumption wopesk conflently on such resubject, or to elain that thia is beyond mistake the suthorship of these beversl nections of the sacred wurd. The inspifation of Moses is wartant ennugh for all of thern. Hut Moseg nowhere claime Lo have been the original author of these recorda, neither doea the Scripture aseort that they were written by bim. On tho contrary, it telle us of a succession of inspired men from Adsm's Lime, from whom wa have nothing, except as above indicated. And es the naspor the bigtnrian lived to the aventa which he relates, the more satiefactory his mecount; If thera is reason to balieve that these dopuments were written by the partiee personatly concerned, they become the more impressive, in leresting, and easy to be underalnod.

It is at least intereating to then the Bible and read the several portiona es a hove basigned to Adnm, Both, Bnoob, Noeh, Shem, ete, in order to ree whut life end epirit thmes records 部免e on, When viewed in a why which is at onee eo probable end so folly in accord with otber statements of the Beriptures.

From the terta in Luke and Acts it is clear that the Goapel ia an old as the raee, and that there never was a time wben it was unknown and unacunded. It in trabegble in the conetellations of the beavens, as represented of old $;$ it is reflected in the tradition and raythologies of all ancient peoplet, and in eyery ege there were holy prophete who treanured tho divine otnclea, end prophesied and tagbt concerving the coming and achiovementh of Jesur Chriat, and "the restitution of all thioga."


iarity with the works and purposes of God, than they possessed. And a princely member of their myeterious and loving brotherhood it was who dwelt in Egypt while the Great Pyramid was building. Huving obtained peaceable possession of the king's heart, he induced him to shut the temples, punish the prieste, cast out the gods, and lend his royal co-operation for the building of a pillar to Jehovah of hosts, which should last to the end of time, and which men ahould open and read in this last evil age, and know that it is from Ilim who is about to judge the world for its apostasies.

Thus then, by a chain of traditions, facts, and Bible testimonies, we connect the origin of the Great Pyramid with a mighty prehistoric people, wholly separate from Egypt and its aboninations,-a people among whom inspiration, as true and high ns that of Moses, wrought, and from whom we have not only the noblest of the aacred books, but likewise the noblest edifice on earth, equally fraught with loly intelligence, divine truth, and inspired prophecy.

Wbat heve we then in this unrivalled pillar, but a Miracle in Stone-a petrifaction of wisdom and truth, revealed of God, preserved
among hin people from the foundation of the world, and thus memorialized by impulse and aid from Him, that it might outlive the apostasies of man, and stand as a witness to the Lord Almighty when be cometh to judge the world, and to fulfil his promise of "the restitution of all thinge."

Men may combat and acorn a conclusion so sublime. They may utterly reject it, as they also rejected Christ, and still reject his salvation. But it involves nothing impossible-nothing improbable-nothing but what we might reasonably expect in view of what God did in ancient times, and promised to the fathers. It is agreeahle to every item of history of which we can evail ourselves. It conforme to the remarkable traditions on the aubject, which cannot otherwise be accounted for. Passages and allusions in both Testaments imply, if they do not positively deciare, that it is a thing of God. And the great monument itself gives palpable demonstration of what cannot be rationally explained on any other hypothesis.

## Primeval Man.

Materialistic and skepticnl science appears disposed to settle upon the belief that man is a being who has had to educate himself up to
what he is, from a troglodyte, if not from something much lower. Of course this goes against the Scriptures, and seta aside as fable and mythic superstition all the most essential substance of the Scriptures. But what care such scientists for that? Such consequences to a theory they take rather as a recommendation. But no such philosophizing cen stand before the Grent Pyrainid. If the primeval man was notbing but a gorilla or a troglodyte, how, in those far prehistoric times, could the builders of this mighty atructure have known what our profoundest aquants, after a acore of centuries of ohservation and experiment, have been able to find out only imperfectly? How could they know even to make and handle the tools, machines, and expedients indispensnhle to the construction of an edifice so enormous in dimensions, so massive in its materials, so exalted in its beight, and so perfect in its workmanship, that to this day it is without a rival on earth? How could they know the apherity, rotation, diameter, density, latitudea, polea, land distribution, and temperatare of the earth, or its astronomic relations? How could they solve the problem of the squaring of the circle, calculate the $\pi$ propurtion, or determine the four cardinal points ? How could
they frame charts of history and dispensations, true to fact in every particular for the apace of four thousend years after their time, and down even to the final consummations? How could they know when the Mosaic economy would start, how long continue, and in what eventuate 9 How could they know when Christianity would be introduced, by what great facts and features it would be marked, and what would be the cbaracteristios, career, and end of the Church of Christ : How could they know of the grand precessional cycle, the lengtb of its duration, the number of days in the true year, the mean distance of the sun from the earth, and the exact positions of the stars at the time the Great Pyramid was built? How could they devise a standard and system of measures and weights, so evenly fitted to each other, so beneficently conformed to the common wants of man, and so perfectly harmonized with all the facts of nature? And how could they know to put all these things on record in one single piece of masonry, without one verbal or pictorial inscription, yet proof against all the ravages and changes of time, and capable of beiag read and understood down to the very end of the world?

Yet, these things teey did know! Here
they are in solid stone, diaplayed to all eyes, and challenging the scrutiny of all the acoants of the earth. Men may aneer, hut they cannot laugb down this mighty structure, nor scoff out of it the angles, proportions, measures, nature references, and sacred correspondences which its makers gave it. Here they are in all their speaking significance, stuhborn and invincihle beyond all power to suppress them. Nothing now can blot out thie record, and on it is written the true Seriptural dignity of primeval man, fashioned in the image of his Maker, furnished of God with everything requisite to his highest life on earth, and illumined and impelled of beaven to make this memorial of his sacred possessions, ere they should be fivally lost amid the ever-increasing deterioration. It is a record whose antiquity none can dispute, whose autbenticity none could corrupt, and whose readings none can construe without the admisbion of a Divine intervention!

And then wbat? Why then inapiration is a demonstrated reality,-then miracle is a tanyiblo fact, - then the foundations of inffidelity are disoolved, then the Scripture are true,-and then our Christian faith and hopes are sube, and cannot disaproint ds!

Wondrous Providence of a wondrous God, to have planted in our world such a memorial as this,-

> Building in stone g real revelstion, Which in Time'g folmeas bas at lagt been read

Use of the Ptrakid respecting Fatte.
It is not a substitute for our glorious Bible that we find in this marvellous pillar, nor a thing to be put on equality with the Scriptures, as though the written word were in any manner deficient. We throw back the imputation that we would propound a new religion with a new oracle. Our vaulting acientists bave quite monopolized that business. The world resounds with the pratings of their varied sects and schools, agreeing in nothing but in negations of the supernatural. We are content with what our holy books record. But when a sacrilegious rationalism would emnsculate them, and an Epicurean pbilosophy would trample thiem into the slough, we rejoice and thank God that before he gave these books be caused this mighty pillar to be stationed in the very path of vaunting science, that his assailed, ahused, and oft-bewildered children in the extremity of the ages might
be able to appeal to it exultantly for montmental attestation of their faith, end, amid the wrinkles and infirmities of failing Time, still have to show an unfaded memorial of its glorious youth.




## Geture fourth.

## sUPFLERENTAL ORGEPYATIONS.



HE rapidity with which entire editions of my former Lectures on the Great Pyramid have been exhausted, indicates that the subject is deemed meritorious, and that the public mind, in some good degree, is disposed to consider the novel but daily strengthening theory of the divine source and aacred message of that marvellous pillar. It would, therefore, seem to be due that another Lecture should now be added, with a view to some further discussion of sundry points touching the great monumental wonder, particularly in respect of what has transpired on the subject since the preceding Lectures were publisbed. Hence this Fourth Lecture, which I propose to devote to a series of observations of a somewhat miscellaneous character, supplementary to those which have now been before the public since September, 1877.

## A Few Testimonies.

It is with gratitude that I refer to the numerous testimonies, publicly and privately given, to the fitness and worth of the presentations heretofore made. It may savor of personal vanity to rehearse them here, but it is due to the subject that some of them should be recited. The theory to which these efforts have been devoted is yet so new, the number of those disposed to make light of it is so great, the prejudices against it are ao strong, the desire of many to know what others think is so reasonable, and the implications are ao momentous, that no overweening moderty should keep back what may be of value to inquirers, or aid in promoting an appreciative examination of the thrilling proposition. Certainly, when the way to a fair hearing of the truth is to be cleared, all prudery should atand aside.

It is, of course, of the first importance, in asking men to form a judgment on auch a question as that which I have endeavored to propound, to know whether the facts are properly atated and reliable. So long as there is doubt on that point there can be no real earnestness in the matter. It is only when the
facts are truly made out, that the obligation is upon the human mind to make a logical and true disposition of them. As to the correctness and frithfulness of the presentations made in my former Lectures on this subject, besides the references given in place, and the means of verification more or less within the reach of all, the following may be taken as of some worth.

William B. Whiting, Commodore in the United States Navy, writing from 54 Prospect Avenue, Milwaukee, Wis., February 2d,1878, in connection with other things, to which I will subsequently refer, вays:

I beve read your book, A Mracle in Stome, with profound attention, as well an interest. I an not eble to criticize or trat ell the factarested therain; bot, in far as I am oble, $I$ know most of them to be correct.

The Episcopal Register, Philadelphia, October 13th, 1877, bears this testimony :

We heve auraclefa given eome attention to the subject, and are prepared to accept certain of the atacements contained in the volume before tra-A Miraele in Stone. The Pyramid in certainly e great mystary, and perhapa it was lenfor this age to solve it. The euthor, in the new work under notice, reletes the general facta and acientifle features.

Prof. Piazzi Snyth, Astronomer Royal for Scotland, author of a number of the most original and profound works on the Great Pyra-
mid, and of all men living perhaps the best qualified to judge in the case, writing from 15 Royal Terruce, Edinburgh, October 26th, 1877, among other thinge aays:

1 beg to thank you for your boot, a Mirache th Stone. I heveread now every word of it, and find that, whereasit ahowis you to hape got a more thorough and practical knowledge of the ecientific claim of the Great Pyramid to be ettended to by the intellectual of the present age than ning hundred and ninetyging out of a thousand who talk mbout it, it ahowi thet unexceptiesable introduction to and hold of the subject to beve been blosed to you by minore vivid, practical, powerful eenee of the religious mesaga of the Great Fyramid to the present and coming age of the world then anything I hape avar asen manifebted yet in say Pyramid writing bitherla produced an either aide of the Atlantic.

Part of my rading yesterday was in a railway carrlage, in foggy wet weathet, but the happiness of your phrasan, tha justnege of gour conclusiona, the flow of your language, but fee above all that akill, the inexpressibly high ralue which you plecs on eny ulterange of God, whether in Ford or stone, as corrpared with the tonehinge of the echoole, Fres one of the most anthusiantio episodea that I beye passod through for a lang time; and I hawa noted aeveral pointh, puch ag your explar-nation-most apiritual as well as aymbolical-of the fity-gix ramp-holes in tha Grind Gailery, 鹃 apperantly quite new in the Pyramid theory, but deetrying of forming a part of it hanceforward foraver

> As testimonies to the force of the facts and arguments contained in the preceding Lectures, I take the liberty of presenting also a few extracts from notices and reviews of them which have been given to the public.

## From The Tisitor, October 18th, 1877.

The distinguished author regards the Graet Pyramid as beying been buitt by dipine inspiration in the far agea of the past; and if its external form, lincs and engley, well ms the inkernal arrangementa are cotrectly described,-of which there peema to be no reason to donbt, -then the concluaions at which the writer arrives appear to be logieal sud nearly irreaiatihls, thougb not amounting to demonstration, 数 to the wonderful kuowledge of the builders in entromeny and geometry; and, what is of greatent inkereat, gres fir towirds eatablisbing the authenticity of the Hols Seriptutes, nut one book of which what written ontll meny years subequent to its erection, thun pleoing them beyond the cavile of modern skepticiem.

The book is well saited tothis age of empiric pbilosophy, and of ecience falsaly so called, and is calonialed to do much good. The viewe entertained by the author as to the identity of Melcbisedec and Job may posibly be regerded an momewhat fanciful, end et variance with the opiniuns of commentalore generally, yet nevertheleag have an atir of much plamibility

From The Churchman, Jenuary 19th, 1878.
We are glad to gee this publication. Probably most readers will question the seundness of eome of the author's induotions; but, aettiog sside everything of a doubtiol charmeter, there is enough len to atartla one who comes to the aubject for the firat time.

The stme argument from design which leads to to beliave that the porld had a pergonal Orantor, warrants the belief that the Great Pyramid was built to parye as m monument in atone, not only of the most important mathematical and astronomical truthe, but aleo of the deeper tuyterien of God's Revelation. We cannot follow the author through the varions chapters in which be traces the great Great Pyramid's digeloaurea, but there Is ample ground for something more than conjeatare in the thinge bera related. The barmong which ia pointed out an axistigg between them end, on the one hand, the trutha of acience, end, on the other, thome of Holy Scripwre, eannot beve been ellogether the reanit of chance.

The work in tmore fapeionting than any romence, Yet it recorde pasibify only the beginging of yet raore wonderful developmente ta followin the futare. What wes once only an object of curiosity for travellera ha beecme the subject of most intunge historiagl, scientific, and religious inlarese

## From The Congregationalish

It geems that the Graat Pyranjid, on baigg aubjected to a rigld scientilc eromination , without and within, yields a greater oumber and variety of facth, medursmente, and olhor qualities, which, to eny the leath, are aingulerly coinoidental with other facta, meadures, end qualitied, relating to religious bistory and other depariments of knowledge, in a wray to guggeat, if it doeg not prove, bow the structure may or must hspe been planned by eomemind convereant with thlage to come; colending to the concluaion that the erehitect of the Great Pyramid was God himeglf, who inspired in detaile, as be did thoas of the ark, the tabernecle, and the temple, end eealed up in its dumb atonea, end atrange paseagee and chambers, an attertation of the other revelation he was to give to the world in the writuen bote.

The whole story of this new and somewhat starting theory bas been well told by Dr. S., who has written with the Euglish authorities before him. To thote fond of curious research end 'labored calculations, it presenta an erceedingly iotereating aubject. Wor cen me refrain from eaying that, afler all possible paina heve been taten to avoid an exces of fenciful interpretation, there remaina a mass of incontestable coincidences which fo certainly very hard to explain on eny theory of the edifice beipg simply a tomb. It is the grand aymhol-worla for the world,

From The Epiecopal Recorder, January 2d, 1878.
We have, in this book, several lectures deaigned to explain, corroborate, and entabliah cartain zusin positions; and thone positions arb etartling, and challage the most careful and earnent study. Tha lecturer aeems to have read eperything that ha bean written ebout the Great Pyramid; to have


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weighed epery conjecture, opinion, and argument; to have conaulted history and prophecy; to bave corrected asicuen, and to have discopered an epitome of all autural, athnic, end epiritual knowledge. Wo hardly know which is the greater, the Pyramid or the book. To quote any atriking paragage as a apecimen of the wort watd require a trabeoription of the whole, for it is all interasting, end one of the most readeble and inatractive books of the times. Wefeel conflent thet the biblical stadent who reads it will consult it frequently, and that materiale auough will be found in its prget to furbith edequetely eny namber of prize essaya, leetures, and debaten. If tbe fucts prepented are eatablished, then the truth ja confrmed that the huilder of the Great Pyramid was the greateat and most fully inspired man of the humen rese, and his work in stune ne truly a work of God ad the fen-und-ink warke of Moes and Isuiuh.


From The Lancaster Daily, November 28th, 187 .
This view of the Great Pyramid in being wdopted by a widening circle of Chrigtian believers, until oven a akeptic scientist has dignifed it at "the religion of the Pyramid ${ }^{3}$ " It presents more intrinaic evidencea of werity than thinge which hope for generations commanded the devotion and aroased the anthabinfm of religioun eredulity, end it may yet come to be an accepted fact in the diyine economy.

These expresaions and others at hand, most of them from sources of the highest worth for intelligence and candor, sufficiently indicate that, in dealing with this subject, we are handling, not only a legitimate and worthy theme, but one of serious importance, which challenges the earnest attention of philosophers and divines, and which must be taken into account in order fully to construe the history of man or the dispensations of God.

## Adferse Carticisms.

But it is not hence to be inferred that no adverse judgments have been given upon these presentations. In such a case it would argue that misapprehensione, perversity, prejudice, ill-affections, and foregone conclusions had ceased to influence the human mind, if no opposing criticisma had been called forth.

When Prof. Smyth propounded to the Royal Society of Edinburgh the earth-commensurated standard and syatem of linear raeasure, so marvellously and fully aymbolized in the Grent Pyramid, one of the most distinguished meanbers of that leerned association felt hinself moved to put a summary extinguieher upon the whole thing. To accomplish this he consented to lay aside all the seriousness and dignity of genuine acience, and betook himself to the expedient of a ridiculous trick. Before the time at which he proposed to deliver his lecture of reply he selected a hat, the brim of which measured exactly one-balf the length of the pyramid and sacred cubit, had it placed upon his desk by an assistant, and, when the proper moment arrived, procceded with great gravity and unction to enact the farce of mensuring it before the audience. Having with the
utmost precision taken its dimensions, he triumphantly announced it just the twenty millimhlh part of the earth's polar axib, and bence arguing all the high and inspired science in the maker of that hat, which is claimed for the huilders of the Great Pyramid! Of course the learned baronet brought down the house, hut it was the turning of the halle of acience into the stage of the jesting roountebank, in order to heap scorn and insult upon the intel-

- ligence of (in any view of the cass) the greatest monumental builders that ever lived. And after the same style have some of my critica seen fit to proceed. Thus a popular journal, specinlly devoted to the religious edification of the young, as a specimen, perhapa, of ita way of feeding Christ's larnbs, printe the following:

Meny of the conclusions would he paralleled by assumption that all the popable combinations of the engraver's geometric lathe were mipacuously revesied to ittr inventor ; all the mathematies of the aliding rale to ita contriver, or tha whole science of trigonomatry to the men who fret conceived a plane triangle. Given a lrue pyramid, and a multitude of anhtle theorema are immediately iaherent, which ara indebritaly increased as the pyramid taice one or another limitation in sbepe; but it does not follow that all the theorems were miraculously repanded to the architect. If eo, whatonpigators and antronomers are the coutatry hoya who make their own epherical beae belle a And, iİ we make the unit of measurement only emall enough,
how inany harmonies of the beaven and spherea will these batls 5piry

So another journal, one which claims to minister to the higher spirituality in religion, considers the whole question adequately disposed of by this illustration :

Take a hole in the ground, which was expefated and stoned round you know not when, then assura tbat this helo had an astronamical purpose, and proceed to find a time whun come star would lave shone atraight into the hale! That ia the logic of tho wirtele-in-stone theory.

And yet another religious paper, which loudly assumes to itself the leadership of advanced modern thought, says:

The synbulism which the suthor flads in the construction of the great mohument, could be found by the asme procesi in the nuw Chieqgo cutom-housa, or my other building-

It is questionable whether such writers comprehend their own language, much less the matter which they have undertaken oo pertly to dispose of. For the credit of human intelligence I am glad to say that, out of more than one handred published notices, these three have the eminent distinction to themselves of gravely considering the pyramid argument sanely met by conceits so shallow. As Sir J. Y. Simpson's hat trick reacted to his own die-
credit as a representative of science, , whilst the imperishable facts touching the Grent Pyramid went on making converts to the only theory that can account for them; so it will ever be, People are mistaken and do great injustice to themselves when they think to aneer down the sublime intellectuality of this hoary monument of the primeval world; and these comparisons are nothing but aneers of a very luw order. Just illustratione they are not. In neither of them is there the slightest parallel to the case we present. "These spherical halls" (?), holes in the ground, or other named constructions, must first be accurately measured, as the Pyramid has been, and proven to contain the data assumed for them, or what is equivalent to the actual and indispatahle facts and formulas deduced from the Pyramid, before the sort of conclusion insinuated can with any soberness be entertained.

[^45]I do not undertake argument with ridicule; but, when it is put forth in the guise of logic, it is due that some notice should be taken of it. And, from the temper and spirit of these writers, it may be safely concluded that, when they have once had it demonstrated to them that the objecta they name contain but a hundredth part of the coincidences with the great facts of science and ascred theology shown to be emhodied in the Great Pyramid, every man of them will be loud in claiming and proclaiming the undoubted supernatural intelligence of the boye who made the "spherical balls," the digger who shaped that hole in the ground, and the architect who designed the form and measures of Chicago's new custom-house, albeit these things casne into being under all the light and intelligence of this nineteenth century, whilst the Great Pyramid was made and finished four thousand years ago, at a time when the knowing ones of our day assert that men had no implementa but chipped fints, and no dwelling-places hut dens and caves of the earth.*

[^46]
## The Verdict of "Not Proven."

Several of the reviews, which have otherwise spoken respectfully of these Lectures,
horior of the French metric syatem, boceuse its inventors were atheishin We guppose that be carafully Investigates the theological moundners of bia bakor und milkman. ${ }^{\text {h }}$

If this writer bad fiyen us sound remsons why we ghould not have regard to the theolagical soundness of all people with whom wo have to do, we would presess at least ono item of wisdom from him, And if bis mark and epidence of intallectual grewtuea is, to be on good torms with the theology and religion of the inventors of the French metre, it ia no mortifeation to us to fall helow bis standard, inasmucb as the Word of God hus some rather uneomplimentary exprestona touching the


The courtly editor would have left ua room to arsign him a leas limited degree of cardor and fidelity to trath, hed besteted the rad pointa we made againat the French Matrology (pp. E8-60), insteall of eiting a mare incidantal faet in the capa, which, howeper, ef we think, ought to be at little recommendatory to him en to us.

Tbe real objections to the Franch metric syatem, which bo admite to have originated in atbeism (in which we beliape the baking of breed end the aerying of mille did not originatol, triyy be aummed up in the following statamenta, which we repeat for the common beneft:
I. IT Is wrscishtific, notwithetanding ile grant pretensiond to science.
(1.) It is founded on a enreed line instead of a atraight onefollows a circumference for a meanure of length inslend of an gris or diameler.
(2.) It ís beaed on the particular meridian of Paris, no more fitting than any other meridian, and tho mereurement of wbielt differs from that of other maridiana just as much eatitled to he taken for euch a purpose, for inalance the kissiun, had the Britisb Indian, which have been meanured an wall uatbat of Parib.
have summed up their conclasions concerning them in the words "not proven." What, and
(4.) It is inscurate and untrue, as now admithed, by ono loo little in evary 5300 parts.
(4.) It is utterly monningleas and unbarmonious with nature, as well in itu unit as in ita fractionsand mulliplications.
II. It is ingeremticy inoompenight.
(1.) It fit to nothiog, demanding a thorough reconstruction of idegs on an arbitrary funcy.
(2.) It is bi-lingual in ite torminology, taking ita names from lenguages incapable of ready understanding, except to clessical sebolera, who berpo the least use for it.
(d.) Ita Lerms are cumbrouk, long, jaw-breaking, and hard to be learned and remambered.
(4.) Iu unit of length is untridable and inespable of any natural mepsurement.
III. It tg opfengive in ite retigioug had tagolooical Brlationg, except to infldels and unbeliepers.
(1.) It is the furthest from the ecriptural and eaored eyetem of weights and measures of all eystems on earth.
(2.) It is the natinual ebaracteristic of the only nationality that ever officisily denied the divine existence.
(8.) It anfliales, at least in eome degree, with the buying and selling "mark of the Beart," which is connected with very emiaus divine judginents. See Rep. 18: 16; 20:4,
IV. We gavi a better bybtey alrgady-a bjghm more truly and signiflennty founded in gature, which, with certain glight and efgy correctione, from the memorializations of the Great Pgramid-hat great monumeat of the primeval wis-dom-would copstitute a eystem of metrology the most encient, the mont expresive, and the wost eceurate, benefleent, and eusy, that in at all know a mong men.

 eause a century or more of confuaiun and trouble, and diesble sll our present records, nod much of our literature glao, to the
how much, tbey severally include in tbis verdict, does not appear. If the meaning is, as scems to be intimated in one or two instances, that tbe question of identity between Job-ab and Job, or between Job and Melchisedec, or between Job, Melchisedec, and Philitis, is not convincingly made out, it was gratuitous to вay во, as I bad not affirmed such a proposition as certainly true, or as a necessary part of my argument. Remarkable coincidences and possibilities were somewhat discussed touching this point, but with the distinet suggestion that nothing is rested on it except to prove that men of these sublime qualities and relations did live in the period of the Great Pyramid's building, and that hence it was not impossible, but is quite probable, that the same was built under the direction of "the sons of God," nnd,

[^47]
## if so, under the tuition and guidance of God himeelf.*


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- It is to me a matler of regret, that writera on the Pyramid are puthing it forth es a doctrine, not only that Philitis certainly fa the anas at Melobisedec, which is highly probable, but that Melchisaded whe mota man, but ${ }^{4}$ he who talked with Mobea in the mount, who walked with Shedrach, Mesheck, and Abednego in Nehuehedneszer'a turnece of flre, Fix., the Son of God," mercly in the eppegrance of a man. This introduces a matter quite nnoecessary to the Pyremid theory, and one so thoroughly quogtionable and extrapagant in itelf, that it can work orly dinadrantage to the argument. It if planaibly argued by pome that Melehisedec, who is ay mysterionaly nod yet so honorably mentioned is the Bible, was "the Bon of Gud in human form," and his meeting, feoding, and blesing of Abraham, one of the numeroue Theophaniog referred to in the Beriptures. But that hat never yet been proven. If Melchisedec was © Thaophany, it beare none of tho featurce of the undispuled Theopheries, Melohinedee je acriptorally affrmed to be "like unto the Bon of Cod," which would very etrongly imply that he whe shot the Son of Ged himself, but only a typt of him, and hence a mas, at the common English version, whether with warrant or not, sflome that he wat. It is hard to underatand that "thia man" should carry bread and wine to Abrabam, and, an an erthly priest-kigg, take from the patriereh e tenth part of the eerthly spoils of wer, and coneent thus "to be ministered unto," if be Wes the Son of God, and not a buman being. Thers is no correaponding ceas in all the recorded Theophanies, which are elaimed ea "namerous," Andjp it is to be mecepted that Melchisedec was "the Sop of God in humen form" it netessarily Feakers, if it doen not Lotally destroy the eupposition that Melchisedec was Pbilitie, the shepherd prince, to whom the building of the Pyramid is ancribed. For then we will have on bend a propotition ao axtraordinary and dif:cult to maintain, as to be quite outaide of all probabitity. (1.) The Theopbuvies were all of very brief continusnce; but Mulchiandec, if be was Philitis, must bave continued and ministored on eurth fur


## So again, if the menning is, that the various doctrines entering into a sound theology, as


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at least forty yenrs. The Pyranid and its preliminery work alone occupied thirly yeara, during all of which time Philition; or Pbilitia, kept his tlocke about tho place in the ordinary babit and condition of a shepherd ting. To theas thirty yespa wa must edd the time required for the gathering of bis company end the autional arrungements in Egrpt in order to begin the work, together rith the time consumed in the migration to Paleetine, the bailding of Jerusalom, and what interput there may hare been from the ebticment in Jerusalem to the meeting of A hrabem. This mould give ua a Theopheny for the building of a memorial in abone, at least spoen limes as long as Cbrist's eartbly ministry for the eglpation of the work, which la herdly credlble without the strougent sort of eyidence. (2.) Thbordiتary divine method, in ell anulogous cares, is the selection, equipment, and comriprioning of real men th the agents end ministere of God. God did not agaung a form, end appear as an eatibly edministrator, in giving ua the Book of Reqelation, He did not writh it himelf, but ehpae and inspifod men for the parpose. Why not the came in the stone reeord It was through tbe mediata ministry of Moses and Auron that God wrought Israel's delivernace, and gare them their inatitutionas The work of ealpation itgelf was pot wrought but through the mediatenesa of a true homan nature. The planting of the Church and the miniatration of the Grapel and ita beneflea mas and is tbrough the ageney of men. And bowover divine or great the wort, it is always through some bumas inetrumentality, employed and enduwed for the purpone. Why, then, without positive proofs to thet effect, should we rist an imporLant cauae by essuming and taneling that it woud different in the care of the Pyramid? (B.) It wea just as ensy, and far more in aceord with analogy, oo make tha Grant Pyramid evarything Which it is now found or claimed to be, by an ordinary operation, like that which lod and infueneed the prophets in their work, an fur the Son of God to essume "the furm of man," and to live and operate a a shepherd-king, srebitect and prient fur


named in the Lectures, are " not proven" by the analogies and indications described, I fully agrec with the atatement. Tbese doctrines repose for their truth on quite another basis, and are proven from quite another source. The point was not to show their truth or credibility, but that accepting them as the substance of the Scripture Revelation, a clear and atriking correspondence to them ruay be found in the Great Pyramid, just as we might naturally expect if it is what I take it to be. The numerous instances which I pointed out, and which I know not how men can honorably get rid of, are not given as proofs of these doctrines; but, the fact that they exist, and may be so vividly traced in the great monument, is brought out first in the interest of exegetical acience, and second as furnishing strong reason to suspect that the Book which teaches these doctrines, and the Fyramid which so wonderfully harmonizes with them though built so long in advance, have both come from one and the sume source.

Supposing God to have caused such a memorialization of any portion of his works and

[^48]purposes, as claimed for the Great Pyramid, it is reasonable to infer that, as in the Bible so here, He would have respect to the whole story of Revelation, which is just as easy to Him as any part of it. If the whole atory were not traceable, at least in its main facts and features, the presumption would be against the idea of His having heen concerned in it. And so, on the other hand, when it is sbown that the whole atory is so truly and fully indicated in the Pyramid's symbolisms, the presumption fairly is that the Pyramid is from the same intelligence from which we have the Scriptures.

But the meaning of these reviews rather seems to be, that the whole presentation, as respects the new theory concerning the Great Pyrarnid, is "not proven." This presents a serious judgment for us, ms no $^{\text {none wishes to }}$ entertain for truth what has no reasonable - foundation. The queation then comes up, What is aufficient proof in a cose like this? No Christian will say that the thing is improssible; and considering the circumstances, and how God aided and directed in other constructions of human handiwork, no one can reasonably say that it is improbable. It therefore depends very much upon the particular moral
condition of the mind that undertakes to decide upon the matter, as to what is adequate proof and what is not. To the Atheist, the evidences of the existence of a personal, almighty, and intelligent God, are deemed inadequate and unconvincing. To the Deiat, the evidences of the inspiration of the Holy Scriptures are rejected as inadequate. To the Arians, the evidences of the co-oqual and coeterual three-oneness of the Deity are set aside re inadequate. To the Jew, the evidences of the Messiahship of Jesus of Nazareth, and of the plan of anlvation through him, are scorned as utterly inadequate. To a Socinian, the evidences of the doctrine of atonement by the blood of Christ, - to the Universalist, the evidences of future and eternul punishment,-and to many, the evidences of a life to come and the immortality of the aoul,-are all deemed inadequate. On all these and other points, great bodies of men, who make every claim to " intelligence, candor, and sobriety, write down as their ultimate conclusion, "not proven." And yet, every true and orthodox Chriatian holds each and every one of these thinge amply made out, with a clearness and certainty on which he resta with unshaken confidence for this world and the next. The auswer he
makes to all clases of these unbelievers is, that they do not atart with right principlet, that they are not open to the force of truth and fair argument, that they decide on imperfect and unreasonable grounds, that they wish to believe as they do, and hence are not willing to take in anything else.

It is a saddening truth, but still a truth, that the source of the skepticism of the unbelieving, however honest they may seem, is not in the inadequacy of the evidence on which to build a true faitb, butin some traditional prejudice, or personal perverseness, or unfaithfulness of examination, or unreasonahle standard of proof, or unconquerable ayerseness to the truth, or unwarrantable pride of position or catate, that stops the ears and beclouds the judgment. The everiasting challenge of the Saviour, on which he stakes the whole credibility of the Gospel, is, "If any man will do the will of the Father, he sball know of the doctrine, whetber it be of God." (Jobn 7 : 17.) So that we are fully warranted, by the unmiatakable word of the great Author of snlvation, in saying, that the true and only reason why people cannot find the convincing evidences of all that enters into the make-up of the proper Chriatian religion is, that they are morally un-
willing to test it by those methods of proof on which it proposes to demonstrate its claims. And if such are the causes that lead so many to regard the evidences of our holy religion, in whole or in part, inadequate, it is not to be wondered that many, from corresponding causes, should withhold belief in the case before us, The skepticism of unbelievers is not held good by Christians as agninst the divine authority of Chriatianity, or any of its doctrines; and as the verdict of "not proven" does not adequately settle the question in that case, so neither does it adequately settle it in this.

Were it shown us wherein tbe argunent for the supernatural origin of the Great Pyramid fuils in method or degree from that on which we repose our common faith re Christians, this verdict of "not proven" could be more intelligently considered. But no one yet has seriously attempted to point out any such defect. On the contrary, the editor of The Churchman, viewing the matter with the keen scrutiny of a broad and peatratiog consideration, and with the manly dignity of one who feels the far-reaching character of the problem and of the manner of dealing with it, gives it out as his conviction, which at the same time comen as a note of solema warning to all believers,
that "the same argument from design which leads us to believe that the world had a personal Greator, warrants the belief that the Great Pyramid woas buill to setve as a monument in stone, not only of the most important mathematical and astronomicul truthe, but also of the deeper mysteries of God's Revelation." In so far then as this judgment is correct, the dissenter has his only logical outcome in Atheism.

## Something is Proven.

But this verdict of "not proven," which a few have seen fit to return as the only answer needing to be made to the presentations respecting the Great Pyramid, not only fails on the one hand to specify what it holds to be "not proven," but it assumes on the other that nothing is proven of any worth to science or faith, or requiring to be seriously considered. It is thus either mere blind assertion or a very unworthy hegging of the question. Some things have been proved as fully and as surely as anything can he. They are also very important thinge, bearing on all the questions respecting humanity and revelation, and involving momentous implications for pbilosophy, history, and religion. And whether they necessitate
the precise conclusion that the Great Pyramid was built under the direction of some inspired man of God or not, the facts remain clear and unalterable, and nothing is true or sound in human thinking which cannot be construed with them. Investigators may, betimes, have been a little too quick and extreme in their interpretntions, and some may here and there have shown slight aigns of partial intoxication annid the wonders of discovery on discovery which have rewurded tbeir endeavors; but, with duc allowance for everything of this aort, there remains a great mass of facte, hard and solid as the rock on which the vast structure stands, from which the answer of "not proven" must rebound very daragingly upon those who propose to abide by it,

It is needless to recapitulate here the scientific data already described (though with some disabling brevity) in the preceding Lectures. All tbat is there stated respecting the geometrical, cosmical, astronomical, metrical, geographical, and mechanical features of the Great Pyramid, and very, very much more, has been amply tested by tbe very best acientific ability, and may be seen fully set out in all their invincible wonderfulness in the more thorough works which are happily multiplying on this
subject. The world may anfely be challenged to refute these grand fucta, whether they be put down as coincidences or aught else, They are proven, and they must atand, whatever men may make of them. And every attack upon them thus far has only aerved to bring them out. with more clearness, and with everincreasing recruits for their defence.

Tbere can be no question now as to the fact that the form and relative dimensions of the Great Pyramid exhibit practically the circle aquared, or that it is built to the mathematical proportion of a diameter to a sphere. The length of its four sides is tbe exact equal of a circle drawn with the Pyramid's vertical height for a radius (see Cbart). In other words, it is an arcbitectural embodiment, in a solid atone edifice, of the matheratical $\pi$, the value of which, in determining the relation of a sphere to its diameter, is 3.14159 plus a alight incommensurable fruction. When this was firgt discovered, and announced as" something very significant, the answer was that the mensures were not aufficiently attested to warrant the acceptance of it as a fact; and that, if it had this appearance, it was a mere coincidence or accident from which nothing can be aryued. Since then the measurements have been more
narrowly and fully determined, and the various commensurations, within and without, more exactly ascertained; but every fresh addition to our knowledge on the subject has contributed to the overwhelming demonstration that the Pyramid is really a memorial of the $\pi$ proportion, and that this is the grand key to much of its import. What is solidly given in the exteral dimensions meets us again wherever we go in the interior.*

[^49]It therefore pertains to scientific men to say What is to be made of all this. Will they say

Agnin, the entire length of the Antephamher floor, multiplied by $\pi$, gives the enace number of daye in a fear.

Again, the number of cubic inchea contained in the granita leaf which henge ecrose the A atechamber, measured to the edgeas of the dreased surfaces, is 10,000 r.

Go, likewies, in the Queen'f Chmber, the height of that eignilcont olehe in the east wall, multiplied by 10 m, gived the Pyramid's wertical beight.

Aloo that niche, to ite loner loug shalf, multiplied hy 10 玉, gives tbe Pyramid's buse-dide lengith.

Also the pquare root of ten times the height of one of the Queenta Chamber end wallia, divided by the beight of the niche, ige.

Eo, agaid, the lengthe of the flat ascending pasagge and the Girand Gullery udded together, of the hatal of escending line, divided ly measured or calculated, of the entrance parage from the origibhl surfece to the Brst macending parage.

The thirty-sixth burizontul couree of atonea in the etructure of the Great Pyramid iés temarlable for being zearly double the thick refis of the coursan immediately below it. The bee of that peculiar courae in just ten timea the beight of the A ntechember; and the distance from the wertical centre of the edifles to the bearest point of either eide at that height, divided by 10, givea the nutiber of daysin a year, and the same divided by the pertical haight of that poial is $\bar{t}$, or the proportion of the diameter of a cirele to ita circumferenco.

Bo, egain, in the Oofler, there comgo out the eame irrepressible. ${ }^{\text {F }}$. The beigbt of the Coter is to the length of is mide end end as 1 to of its logg eides, is m. A cirele, with the brendth of the Coffer's base for a dimmeter, of es equete, with the depth of tha Cofer, gived the external aren of one of its long eides, divided by $r$.

So, again, in the interrelations of the several main parts of the Pyramid an a whole, tbe King's Chamber, and the Coffer. In
it is mere accident, and just happened so? As well might they pronounce the placement of the figures in the multiplication table an accidenit. Will they say it was part of the common acience of the period? Then how came there to be not another vestige or trace of it in all the world for three thousand years but in this one single memorial? There are dozens of other pyramids in Egypt, and massive remains in various countries, dating to a very remote entiquity, and why does no trace of it appear anywhere in any of them? The new theory on this aubject fully explains all the facts, and if we are not to accept that theory
eseb of these thres one rule governa the shape of each, namely, the two principal dimensiona added together are timea the third. The Pyrimid's length and broedth thus equal or height; the King's Chanber leogth and height equal a breadth; the Coffert length and hreanth equal $\boldsymbol{\sim}$ haight.

All theed and numerous other puch propositions hnfe been thoroughly worked out by competont mathameticians, and, any one able to perform the necessary operations, neede only to refer to the ectual measurementa in order to verify ell for himself. Indeed, men might as Fell undertake to deny that tha Pyremid erista es to deny the gacertajned end demonstrable ompipresence and constant uge of these mathematical ideas in its opnstruction and arrengemanin, The discoperera and demonatratora of these fueta are Mr. James Simpeon, Mr. BL. John Fineent Dey, Prof. H. L. Smith, Captain Traç, R.A., Jobn Tiylor, Prof. Sayth, etc. Many of the facte bragiven in Johngon's Nete Unipersal Cyelopedia, article "Pyramid," ead in the lest edition of Onz Inherilance in the Grent Pyremid, by Prol. Emyth, 1877.
it devolves on those who reject it to give us something else that will explain them.

It is also a fact, that, the more science becomes sure and accurate in its enunciations, the closer do they come to the indications in the Great Pyramid. A remarkable instance of this has recently occurred with reference to the problem of the sun-distance.

By ohservatione of the transit of planets, from the lunar irregularities, by experiments touching the velocity of light, and from perturbations in the courses of the henvenly bodies, very many attempta have been made to reach a solution of this problem. In 1824, Encke gave the distance as $95,370,000$ miles, and his estimate has been most generally received. For some years, however, his figures have been regarded by scientists as from 1 to $2 \frac{1}{2}$ millions of miles too high, and the expectation hat been that the universal and expensive arrangements for the observation of the transit of Venus in 1874 would furaish the data requisite to settle the matter. The full reaults of these observations, made under the most favorable circumstances, and with the most refined astronomical apparatus, have not yet transpired; but they are begiuning to come out $t_{s}$ and altogether more favorably to the Pyramid indications,
which give the mean sun-distance as $91,840,000$ miles, The English estimate, which Prof. R. A. Proctor pronounces "a satisfactory one," now stands at $92,600,000$ miles, a reduction from the old estimate of 2,770,000 miles nearer to the Pyramid indications. In France, M. Puiseaux, who has bestowed very great and laborious attention to the subject, and who feels confident that he cannot be more than a few hundred miles in error, puts down the most recent estimate of the aun's distance at 91,840,270 miles, or 759,730 miles atill nearer to the Pyramid indications, and actually within 270 miles of the exact Pyramid figures! On the announcement of this result, the Freach paper, Les Mondes, very justly exclaimed, "La Grande Pyramide a vaincu"-Tee Great Prramid has Conquered !

A very interesting fact has also been brought to my knowledge by Commodore Whiting. In the communication to which I have already referred, that learned gentleman writes me concerning the desirableness of the Great Pyramid as a meridional zero for the universal computar tion of Iongitude, and says: "My friend, M. F. Maury, whom I succeeded in commend of the U. S. Observatory at Washington, was probably the greatest geognost in the world. His attention
was directed to the nether or lower meridian. The English, and all nations using the English language and charts, compute their longitude from Greeuwich, the French from Paris, the Spanish from Cadiz, the Russians from Cronstadt, etc., adopting these as the initiatory meridians of their respective charts, aud 180 derrees therefrom as the nether meridiau. In sniling around the world (ao common nowadays), persona going west lose a day in their calendar, and persons going east gain a day, so that circumnavigators, to prevent the confusion of dates that would otherwise obtain, drop a day in the latter instance, and duplicate one in the former when crossing the nether meridian. Different nations having different nether meridians creates confusion, and Maury said all nations ought to agree on a common nether meridian. The English, French, Spanish, Russian, etc., all have their nether meridian to pass over inhabited portions of the earth, so that persons but a few feet apart, if upon different sides of the nether meridian, would have different calendars, and to the one it would be Monday while to the other it would be Sunday; and Manry sought for a general nether meridian that would be free from this disadvantage, Such ameridian he pronounced
to bo about that degree west of Greenwich, which is the exact nether meridian from the Greal Pyramid. He thus clearly designated the meridian of the Great Pyramid as the proper initiatory meridian for the world." It was an unconscious degignation-a conclusion reached without any thought or knowledge of any relation between it and the Great Pyramid, -and it is another instance in which the best results of the best acience briag us hack to what was immortally embodied in that wonderful pillar of four thousand years ago.*

[^50]
## Adperse Inquiries.

But few of the notices of there Lecturea attempt any argument on the subject. It was not to be expected that they should. Several points, however, have been made, to which it may be desirable to allude.

A prominent and pervading objection in a number of the adverse judgments given is, that the whole presentation is too fanciful for belief. If by this is meant that what is atated for fact is nothing but the work of an enthusiastic imagination, we can only pity the uncandidness and flippancy of those who make the assertion, and appeal to the records of explorers

[^51]M. Nouti's ober 7ation make it $20^{\circ} 69^{\prime} 9^{\prime \prime}$.

Pizzzi Enyth's, with Playfair instrumant, $29^{\circ}$ ह8' $61^{\prime \prime}$, Shifling wetwerd to eqoid low ground, $20^{\circ} 59^{\prime} 12^{\prime \prime}$.
and inveatigators, which, if not to be credited, leaves nothing on which to believe tuat the Great Pyramid exists. I claim to have given facts, not fancies; and it is that wonderful array of facte that men are now called on to deal with. My inferences from those facts may, perhaps, be faulty and illogical, but that can only be fairly determined by a full canvassing of the facts, and first obtaining a complete and appreciative underatanding of them, which cannot be the case with those who superciliously dismiss the whole matter as nothing but romance and fable.

Nor should we forget that it is a very old and familiar thing for people petulantly to brand as silliness and lunacy whatever unpleasantly cuts into their old round of thinking, or unwelcomely disturbs their pleasant ease. It is a cheap way of getting over what would otherwise be inconvenient. It was after this fashion that the Jews aet aside Jesus of Nazareth, and that many of Paul's hearers spoke of him. And so the early Christians, as a class, stand registered in the annals of Pagan Rome. But were these fanatics? Was their cause that crazy thing which so many were pleased to regard it? Were the people who so disposed of it the just, sober, and wise
ones in acting thus? Do not all believers, who have since lived, unite in holding them very blameworthy and unreasonable? A thing is not a wild, fanatical conceit, because some may treat it as such. When a serious subject presents itself, it argues very unfavorably for people, without examination, to pooh-pooh it as nonsense. True philosophers and candid inquirers for the truth never proceed after that fashion. And if men would, indeed, exemplify the superior sense and moderation which they are so facile in assuming to themselves as their particular monopoly, they have need of a goodly degree more of reserve than some have shown in their offhand characterizations of the fair and honorable efforts of their equals to gain attention to a great subject.

Ope publication, generally appreciative and just, propounds the question: "If all that is said of the superior intelligence emhodied in the Great Pyramid is true, how is it that four thousand yeara had to pass away before a hierophant of the sacred mystery appeared ?" We might ask the same question with regard to the wonders of steam and electricity, the circulation of the blood, the uses of stone-conl, and a hundred other things more naked and open to the view of universal man for nearly
six thousaud years than the Pyramid has been to anybody, except within the past few hundred years, How is it that no one ever appeared until so recently to tell us what was before all eyes unread and unsuspected for such scores of centuries? So, also, infidelity aske, Why did not Christ come with his alleged light and salvation till after four thousand years of apostasy and darkness were allowed to roll their weary agea over the race? Such a question at best is wholly out of place as against facta duly ascertained; for facta proven must be admitted, whether we can explain them or not. Besides, in the case of the Grent Pyramid, a vital part of the theory is, that the intent in its building wes to set up a prehiotoric monument, which should pass unrecognized as to its object through all the ages of history, in order to disclose its message in the last period of this world, and by ita marvellous testimonies to confound and leave without excuse the blatant unbelief and ruinous akepticism foreseen and foretold as one of the characteristics of the last times. It found no interpreter, because it was part of the intention that it should have none; and becnuse, according to its purpose, it would have been out of time and place to have one till the
period for which its great message was meant had arrived.

In the same spirit and with the same intent another paper inquires: "Granting everything the author says, if the human intellect had not first found out all these truthe, how could be ever find them in the Pyramid?" This inquirer is at fault in assuming that everything claimed to be symbolized in the Great Pyramid has been found out by "the humar intellect." Some of these things are purely subjects of divine revelation as contained in the Scriptures. With this correction I am very free to admit that, without the Bible to put me in possession of the doctrines and prophecies therein presented, and without the resulta attained by modern acience, it would be impossible for me to rend anything in the Great Pyramid which is now found there. But a man's inability to read the Bible does not prove it empty of truth. Neither does a man's ability to read what is there prove that ite contents are from the unaided human intellect. So in this case, though science be required to read and understand the acience symbolized in the Great Pyramid, the spirit of inspiration may atill have been necesanry to put tbat science there-seeing that it was put
there-before the days of acience. The point is, not that mireculous inspiration alone could teach man the truths pertaining to the physical universe, but that the framing of so complete and comprehensive a monument of those trutbs before modern science began to be, and before the human intellect had at all found them out, argues the efficient presence of a superhuman Intelligence, and so furnishes a demonstration, in science's own field, of the reality of miraculous inspiration, which science in its pride is now disposed to question and deride. It is an argument addressed to science, and hence requires the presence of science; and, until buman science was, and had come out of its babyhood, of course the address could not be delivered nor understood, as neither whs it geeded.

As I understand the Great Pyramid, and the true way of viewing it, it is not so much to acquaint the world with scientific truths otherwise unknowable, but to show, as those truths begin to be known, that they were memorinlized on earth by men chosen and iospired for the purpose before mere human science could possibly find them; that men, baving monumental evidence of this fact, might not, in their vain conceit, exalt themselves
against their Maker, disown Providence, deny revelation, and undertake to rule the Almighty out of His universe. It is, in my understanding, not so much to give us new revelations as to furnish monumental substantiation of old ones, of which the prophets from the foundation of the world have spoken, and which the perveraities of this age are perauading mankind to surrender, explain away, deny, or otherwise to put aside for a profine homage to a new Juggernaut, bearing the farcinating name of Progress.

But, bays another, "If the Pyramid was built with so thorough a knowledge of geography, astronomy, science, and theology, as now supposed, what became of it in subsequent ages? It is strange that we find no traces of such altainments in aftertimes among the Chaldenns, Aняyrians, Phænicians, Greeks, or the Egyptians themselves. The Copernicen aystem was not accepted, even by the most advanced thiukers, until more than three thousand years afterwards. Could a system so aimple, so beautiful, and no easily demonstrated to be correct, ever have been lost to the world after it was once clearly understood?"

I thank this writer for the positiveness with which he affirms the total absence of any trace
of such science as is now being read from the Great Pyramid in all the records of the time and for thousands of years afterwards, seve in this marvellous pillar. It is the truth, and a most significant trutb. The writer alleges it as a sort of a priori reason for not crediting any of these reports about the bigh science embodied in the Pyramid; but it is really one of the foundation-stones on which ite highest claime repose.

Whether the Great Pyramid really does witness to the superior science claimed to be embodied in it, is a question which must be determined, as a matter of fact, on its own independent evidences. If this alleged wisdom is proven to be there, the fact must stand, whatever other conclusions it may necesaitate, or however it may transcend the thoughts and beliefs of the nations then and for thirty centuries succeeding. If it is there, it is there, and all the a priori reasoning in the world cannot make it otherwise. And there it most certainly is. There is the most evident memorialization of the wonder-working mathematical $\pi$. There is the most evident notation of the rotundity and rotation of the earth, its annual revolution around the sun, its mean distance from the sun, its mean temperature,
its weight, its diameter, its land distribution, and the exact way every part of it lies with regard to the four cardinal points. There is the most evident notation of the true yenr, of the grand precessional cycle, and of the proper beginning and length of both. Every one living and capable of comprehending these particulars can read and trace them there in the various measures, pointings, angles, and counta, as readily as he can work the commonest arithmetic rules, or demonstrate tbe theorems of geometry, or read the constellations. None of these things were truly known to any nation of the time, or for a score and a half of centuries thereafter. Until the days of modern science there is no other trace of them on earth in all the records, monuments, or remaine of intellectual man. Shall we say, then, that the getting of these thinge in to tbe Pyramid is mere flind accident and meaningless coincidence $?$ Why, then, has the like occurred but once in the first five thousand years of man's existence? Might we not as well take up the tables of our annual almanacs, and seeing them accurately fulfilled as the year rolls round, any, "These are very marvellous coincidencee, but it is all blind guesswork; it has only happened so; the men
thrt made those nlmanacs really knew nothing at all about it!" Which would be the more reasonable, to believe our annual almanacs to have originated in haphazard guessing, or to set down the Great Pyramid's memorialization and constant use of $\pi$, as a mere fortuitous coincidence, neither understood nor intended by tbe architect? And if these ancient builders did understand $x$, and build to $i t$, and lay up in stone a hundred items of most extraordinary intelligence by means of it, where did they get it ? How came they to be so grandly informed above nll the children of men for five thousand years? Can there be any other rational answer than that which I have indicated in these Lectures? Verily it was God's special gift to them for this one individunal purpose, that they might build unto "Him, "in the midst of the land of Egypt," an allar-pillar, which, in the latter days, should "be for a sign and for a witness unto the Lord of hosts."

But we are asked, if men four thousand years ngo had such superior knowledge, what became of it? How could it be lost? I might as well demand, how came the world to luse that kaowledge of the true and only God which man so eminently possessed in the beginning of his history? But I will not press
such nn inquiry. The high knowledge vouchanfed to the builders of the Great Pyramid was for a particular end, and that end was not the enunciation of it to the world that then was, and was in so poor a condition to receive or profit by it, but for unique memorializations as a message to a long-after age of bonstiful science, self-defying theorizings, and a too confident glorifying of the power and infallihility of man's reason. Lost! It has not been lost. It is there, exactly where those noble "sons of God" put it, as directed by the Father. It has come over the chasm and waste of nearly forty and a half centuries without a word or syllable missing. There lie its tables of stone, approwchable to all this world of adored progress, and challenging all the supercilious savants of unbelief to look, underatand, and learn wisdom. What becarne of it? Why, having made its intended voyage in safety across the sea of ages to our world, and begun to speak its grand message to those for whom it is meant, those who should most gladly welcome its glorious testimony for God and his universal truth, nud most willingly give themselves to an earnest searching out of what it has to bay, insult it in the halle of science, scoff at it with valgar jests, array it
in robes of mockery, make merry over its strange speech, disown it because it will not link itself with their false philosophies, and insist on gibbeting it, or stamping it out forever, because it puts forth claims to be heavenborn and heaven-sent! This is what bas become of it.
But this inquiry about what became of auch knowledge, taken as an argument against the claims now made for the Great Pyramid, grounds itself upon an assumption which cannot be maintained. It assumes that those who built this monument fully underatood and thoroughly comprebended everything which now turns out to be contained in their edifice. This, as a recent writer justly saye, "is not warranted hy the logic of facts nor the logic of reason." God's works as a whole, both in nature and providence, are so correlated, and are projected on such a constantly recurring unity of plan, that one department is ever translatable into another-the natural into the spiritual, the earthly into the heavenly, the microcosm into the macrocosm, the sectional into the general, the lower into the higher, the units into the multiples, the exterior into the interior, the beginninge into the endings, the physical into the intellectual-
and each part so coheres in the one thought of the one eternal and all-embracing Mind, that truly and adequately to symbolize one department neceasarily includes like truths in other departments, though unconsciously to those framing the symbol. This one great fact, of which we now have so many illustrations, and which is so reasonably inferable from the origination and ordering of all thinga from and by one and the same infinite and eternal Intellect, completely answers the captious objections made against pyramidologists for making the aame lines, angles, mensures, avenues, rooms, and stones refer to so many different things. If God arranger that the leaves shall come out oñ the stems of the various plants in an order coincident with the relative distances of the several planets from the sun, where is the unreasonahleness of it? or, what coufusion docs it introduce between botany and astronomy? Because the fifh chapter of Genesis, read acrostically in the import of its names, gives us the history of human redemption, what hindrance or absurdity does that interpose to the reading of it as tbe ohituary list of the antediluvian patriarchs? Does not the ann:e alptabet spell all our words, aud hy ite various combinations
serve to record all our knowledge? And when, by reading certain features of the Great Pyramid in one way, we get one circle of truths, and by reading them in other ways, based on Pyramid presentations, we get quite other circles of truths, or trace in one part coincidences with readings in a different kind in another part, where is the illogicalness of it or the confounding of things any moore than in the ctses just naned?
When one thing in God's works is itself the symbol of other things in His works, it is only necessary that the constructor of the expression of it should understand the one in order to include the other. And considering that the Grent Pyramid was built not for the people who then lived, but in order to convey a divine messinge to the science world of our day, it is not at all implied that its builders consciously understood even the half their work really expresses. The propheta did not always understand what they were inspired to write. The holy record itelf tells us that they inquired, and searched, and tried to find ont, lut never fully comprebended what nud what numner of time the Spirit that was in them did aiguify ( 1 Peter $1: 10-12$ ). God's trutb was amply cubraced in what they wrote, and
in long after time was seen to be fulfilled, and served all its intended ends, notwithstanding that the writers themselves were not thoroughly in the clear about it. And if the prophets could truly enunciate the divine purpose without fully compreheading it at the time, much ratber could these builders of the Pyramid do their work, under the direction of tbe same Spirit, without understanding all that was afterwards to be read from the various features of the mighty edifice they were commissioned to rear, and seal up till the time of the end. Who is prepared to maintain that Moses fully comprehended all the relations and symbolic meanings which are now seen and known to be contained in the various institutes, constructions, and erections whicb God directed him to make? Are we therefore to deny tbat these aymbolisms are there? Hnw unreasonable and illogical, then, to asaume that the men who built the Great Pyramid must necessarily have understood nad practically mastered and digested all tbe scientific and religious facts, histories, and prophecies capable of being deciphered from their work; or to argue that, because the heathen nations give no evidence of ever hnving had sucb a wisdom, we must conclude ngaingt the
possibility of finding it in the Pyramid. On the contrary, science now provea that a high science is there, and for the very reason that for so many, many centuries no other trace of it nppears in the works of man, the conclusion should rather be that it was put there hy the speciul inspiration of God, just as the symnholisms of the Tabernncle and ite arrangements were put there by Him, and for a corresponding purpose.

## The Pxramid and False Pemosopay.

The apologetic worth of the Great Pyramid in the argument for a correct understanding of the origin, history and destiny of man, should, of itself, command for it the favorable interest of every intelligent inquirer, and especially of every Cbristian.

We live in a skeptical age. In religion and in science the temper is in the direction of Ra tionalism and unfaith. Humanity has become boastful of its intellectual power, and, proudly aiming to be "ab God," it has become sensual and devilish. If any one will be at the paina to annlyze what are considered the proudest achieverments of modern mind, he will find them thoroughly materialistic, if not exclu-
sively so, and really but little else than inapections and manipalations of the lower ele-ments,-searchings into the ground,-till it has come to be concluded in leading circles that everything is derivahle from mud, without a personal God, or need of rovelations from Him. This spirit is in the prevailing philosophies, in the popular theories of politica and legislation, in the noisy social reforms of the day, and in the most approved religious activities, reacting upon theology itself, eating away sound doctrine, and auhstituting the rationalistic fincies of men for the teachings of Jehovah. Even good and honest people are unconaciously full of the noxious miasma. From looking up towards heaven and the eternal realitics, there is a proneuess, a looking down toward earth, and earthly interests and outcomes. When we search into the inner heart of modern thought and feeling, we find lodged there, in one form or another, and more or less affecting the whole practical bent of the age, this doctrine, that man is an ever-improving growth, that nothing of truth and good is ever forgotten, and hence that the career of the race is ever upward and advancing. Progress is the watchword which tella the atory. Some make the beginning lower down, and sowe locate
the outcome higher up; but when the whole is rusol ved into its real elements, Evolution, rounding up nt last in a grand millennium of wisdom, peace, and blessedness in this present world, is about the sum of the practical beliefs and teaching of our times. The kind, the degree, the specific factors depended on, inay be differeut with different clnsses, but the type is the same. If we look at the museums and the books intended for the instruction of the people, we find them confidently exlihiting a stone age, a bone age, a hronze age, and an iron age, as marking the erns of man's coming up from monkeylood or savagism to an everimproving science and civilization. The trentises on fundamental law lnrgely assume the aame thing, and derive society and government from the concession of brute rights to political rule-as a development from man himself, with no other foundation. Theologians fall into much the same vein, and find the essence of the faith rather in the aggregate of growing sentiments and opinions than in the supernaturel revelations of God, and preach a grand erf of triumph to come out of human ngencies, activities, and progress. The underlying seed-thought is Development, till all defects are superseded, and hell itself is abolished,
by the unceasing improvernent and improvableness of man. After all, Evolution is the faith.
There is, indeed, a true doctrine of development, but it is wholly different from that which so pervades, inferts, and degrades our modern science and theology. Nor is there anything more needed by the present world of mind than an effectual corrective for the false philosophy which is so influencing and debauching it.

The truth is in the Scriptures, if men could only be persuaded to regard it. The bistory of man as there given, is not at all that nasumed by the progressivists. There the first man wins the most perfect of all mere men, the most knowing, and the most exalted. That rare and special rupport with the Supreme Intelligence, which for certain gracious purposes was afterwards vouchsafed to the prophets, was Adam's normal condition. The highest atate of mind, heart, qualification for n perfect buman existence, and equipment for all the sublimest duties and relations pertaining to bis earthly life and destiny, were realized in him, as he came from the Creator's hand. A stone age, or a bone age, or a gaunt prehistoric savagism, cracking the bones of wild bensts to
get at the marrow, finds no place in these sacred accounts of man's beginning. No such hairy, wolfish, ignorant, and base tenant of the marshy woods or dripping caves did God behold and bless when he set $A$ dam and Eve in the world as the imarge of Himself, and pronounced them "very good." A terrible calamity soon ensued to blight man's pristine glory, so that everything aince naturally developed from him bas been only deterioration and downwardness. But all his superior mental endowments and knowledge did not at once cease to he. He was still a most exalted, knowing, and civilized man, even after his sad disobediunce, and for all his life of nearly a thoussud years. His first soms were civilized men, who from the first tilled the ground and herded the flocks. While Adam lived there were musical instruments, musicians, and workers in brass and iron. Befure the flood came mankind had all the requisite tools, skill, and capacity to build a ship greater than the Great Eastern. Noal, who came over the flood in that vessel, still lived while one of his deacendants built four cities, and laid the foundations of the world's first empire. A few bundred years later Abraham appears as a highly civilized man, and finds an establisbed governinent
and great kingdom, with all the appurtenances of a busy and vigorous civilization, in Egypt. At the same time Chedorlaomer is king of Elam, and allies himself with other kings, and finds kings of Sodom and Gomorrah to malse war upon. And so the indications, as given in the Bible, all are, that the primitive peoples were not savages; tbat they had letters and laws, records, arts, sciences, bociety, goverament, worship, and everything in greater perfection and purity than all the boasted developments of man in these later ages.

This ought to be enough, and to some, fortunately, it is enough. But the general mind is not convinced. Science is disposed to ignore it allogether, and to insist on a totally opposite theory. A proud and pervading skepticism makes it the subject of special attack on the Scriptures, a supercilious rationalism explains it away, nnd Evolution is the faith.

As far an we are able to trace the history of man from his works and remains, the acriptural narratives would seens to be borne out in every particular. Everything that is known of the primeval peeples shows them coming upon the acene together and with a full-fledged civilization. Beginning with modern Europe, we can trace man hack through the Middle

Ages to Rome, through Rome to 750 years hefore Christ, and then through the Greeks to the 'lrojan war, about 1200 years belore Christ. By the uid of modern explorations and discoveries, in Mesopotamia, Egypt, Persia, Arabia, India, China, tc., we are carried back to from 2000 to 2500 yeara before Christ. But there, within a circle of a few hundred years, all tracce of man disappear. Some of the nations have claimed n much greater antiquity, but no monumental remains are to be found to prove them any older than these dates. Man has left no memorials which can be proven to be older than 2800 years before Christ, nor have any been found certainly no old as that. Within a few hundred years alter that date the existing remains are numerous, and in all of them we find writing, engraving, husbandry, government, vast architecture, science references, brilliant dressing, elaborate ornaments, metals, jewels, cities, temples, and all the paraphernalia of a high civilization, just as the Scriptures represent. But still the reatless public mind is not convinced, nor ready to settle down upon the truth-Evolution is the faith.

Here, then, comes in the Great Pyramid to crown and seal the argument. It is a tangi-
ble monument, which dates back to within two hundred years of Egypt's beginning ns a nation. It comes from fur beyond tbe historic times. It was built by those primeval peoples, of whose gradual education from savage life not e particle of proof can be produced. Stone implementa are found in Egypt, but there is no evidence that they are any older than the Great Pyramid. That greatest and oldest of all existing edifices on earth was not built with slone saws and bone mattocks. Iron and steel were required, which in turn required furnaces, and art, and high civilization to produce them. We know that iron tools were used in the Great Pyramid's construction, for one was found by Colonel Howard Vyse's excavations imbedded in the cement where no opening was ever made before from the time the building was erected. It is a large piece, and may be seen in the British Museum, in London, proving the high civilization of the people who used it."

[^52]In this edifice is the demonstration also of a wouderful genius and skill for cutting, dressing, transporting, handling, fitting, cementing, placing, and polishing the greatest masses of the beaviest and hardest of rocks. No greater huilding of solid masonry is known ever to have been in our world. The perfection of
thie question. The Sinaitic mougtaina and bills are known to he full of iron of tho moat excollent kind, A Mr. Hertinod, mone yeara ago, estoblished bimself in that region for mining purpoas, and there, near Surabil-el-Khadem, and not far from Wady Meghara, he lound, not traces merely, but cologsal remains, of tron works and furnacer, belonging to the eerlictat kings of ancient Egypt, and on a ecaleso patat as to be taditiled tw hy almost mountainoug heaps of genuine iron aleg and veritable iron furnice refuse (fee Procedings Boc. Antiq., Fol. Fi 2d eeries, Jung, 1878). Nag, what is still more remattable, bere also, in the immodiate neigbborbood of the ancient piles of slag, is a tablet containing the cartowher of Stufu (Cbeope) und Nam-Shufu, the eams an in the quarry-mates digeovered by Colonel Howard Vise on the hidden ehones in the Great Pyramid! These records are engraved in a aoflt in the face of the natural rock, where they directly overlook the seene of the furnaces. They begin with the tame of gorin, the inmediate predecessor of Cbeopi, uadar wbom the Egyptiank mem to beve been put through the apprenticesbip of working in iron. One of Egypt'a ancisnt kinge also mppears on the monument with e name which mens "a bover of irom." The proofe are that Egypt, in the period of the Grest Pyramid's huilding and inmedietoly preceding, did bere derote itrelfimmerael y end offect ively to the manafacture of iron, and eo beceme supplied Fith the melal implementa necaseary in the luilding of the Pyrt mids. And all this was in tbat very period which is put down by the progrossive development philonophy as the atore age of

the workmanship, and the mechanical accuracy, and the intellectuality of the calculations in the construction and emplacements, have never been surpessed in any structure iu any age. On its stones, too, are the proofs that the buildera could read and write. And with such an edifice before us, come down to us from almost the remotest extreme of the known prehistoric ages, and bearing with it these undeniable marke, how overwhelming is the demonstration against the evolution philosophy! Well may the skepticnl Renan confess and exclaim: "When we think of this civilization, that it had no infancy; that this art, of which there remain innumerable monuments, had no archaic period; tbat the Egypt of Cheops and Cephren is superior, in a вense, to all that followed; on est pris de vertige."

But when to all this we add, as we must, those higher and sublimer things of the Great Pyramid, of which Renan then had no con-ception,-when we add the high mathematical principles, the astronomical calculations and references, the cosmical knowledge and symbolizations, the metrological embudiments and indications, and the geographical aptitudes во unmistakably identifed, capable of being rend only in the light of the highest achievementa
of modern acience, and enunciated with a definiteness and precision which modern acience has in most instances not yet reached,-when we trace here a symbolized epitome of universal truth and knowledge, much of it beyond any science of mere man, and nowhere traceable on earth, aave here and in the Scriptures, Renan's fit of giddy consternation must needs be intensifed into most stunning and crushing disester. The evolution philosophy, whether in science, art, or theology, here meets a massive and invincible contradiction and catastrophe, which buries it under five million tons of worked marble and granite! It must lift the Great Pyramid out of tbe path of human history, or it is in all sound reason eatopped forever, and all its kindred Rationalism with it.

Of course the made-up evolutionists will not agree that the Great Pyramid has killed their god. It is not to be expected that they will yield at summons to such a thorough revolution and reconstruction in their fevorite and life-long theories. How can they patiently resign what is so much a part of their proudest boast and being? And hence it is that the presentations concerning the Great Pyramid appear to them so absurd and ridiculous that any silly question or clever trick is deemed
answer enough to all the showings on the subject. But if the mighty monument is to be allowed its full say, all the subtle theories that contradict or emasculate the Bible story must take defeat, from which there is no recovery.

## Somb Addithonal Particulars.

Since the pullication of the preceding Lectures several further items have been brought forward with regard to the Great Pyramid's aymbolizations, to some of which it may be desirable here to allude.

If this great monument really presents what I have indicated with reference to astronomical and cosmical truths, we might reasonahly expect it also to embody some data respecting the alternation of the seasons, and the causes by which these differences in the course of a year are produced. The same would also seem to have been discovered in the eccentricity of the placement of the entrance tube. That entrance is not in the centre of the building, hat a little to the eastward. Of and on this displacement, Mr. Cockhurn Muir, civil engineer, bas made calculations, and mathematically trested them in connection with other Pyrar
mid numbers and proportions, and found the indication of an angle equal to $23^{\circ} 57^{\prime} 50^{\prime \prime}$, which he regarda as an expression of what the obliquity of the ecliptic wns in the year the Pyramid was built. Having calculated for the degree of eccentricity of the ecliptic in 日.c. 2170, the result came out coincident with the angle he had deduced from the entrance passnge displacement within 49". Another and earlier calculation, however, made with particular care by Mr. J. N. Stock well (printed in the Sinidsonian Contributions to Knowledge for 1872), presents the obliquity of the ecliptic, in 2170 в.c., as $23^{\circ} 57^{\prime} 50.2^{\prime \prime}$, exactly within two-tenths of a second what Mr. Muir calculated from the Pyramid that the angle should be. The processes are indicated in Prof. Smyth's last edition (1877) of Our Inheritance in the Great Pyramid (pp. 401-7). The angle of the obliquity of the ecliptic at present is given in the books as $23^{\circ} 27^{\prime} 30^{\prime \prime}$.

The same displacement in the number of its inches (three hundred and a small fraction), nlso gives the ellipticity of the earth, or the amount of the protuberance at the equator over its polar diameter, which science has registered at one three-hundredth, or close thereto, and on which reats that remarkable
feature in the appearances of the heavens which makes the precessional cycle.

During last winter a gentlemun from Switzerland, who became particularly interested in my remarks on the Pyramid's symbolizar tious of Christianity found in the Grand Gallery, called my attention to a fact which he regarded as singularly confirmatory of the presentations on that subject. Everything in Christianity, he justly said, rests on, as it practically perpetuates, the life, death, resurrection, and ascension of Jesus Christ. Those rampholes, in connection with the vertical settings into the walls beside them, refer buck to the death and resurrection of Christ symbolized by the "well," and express the aame as spiritually wrought into the experiences and hopes of all true Christians. And so, he said, the nuruber of inches in the whole length of the Grand Gallery, divided by the number of these rampholes, gives the exact number of years embraced in Christ's earthly life, from his birth to his afcension into heaven, namely, 33 years and nearly one-half.

It may also be observed, that the length of the Grand Gellery in inches, divided by the number of stones by which it is covered, gives the exact number of weeks in a year, including

# the fraction, and that these thirty-six roofstones likewise count the number of millions of cubic inches of spuce inclosed in the Gallery, of which they are the ceiling.* 


#### Abstract

骨 A correspondent hes also called my athontion to other passages then thoee which I cited in the precoding Lectures in the Book of Job. He thinks he can trace Farious ibdications, ayegrtions, and allubione ia that remaricable boot; a I belieqe be can, which strongly confrm some of the points sugpeated in these Leatures, He refert proticularly to Job 20: 13; an very distincily amigoing the framisg of the constallations to sivine monree, and apecially aingling out the conatallation of the dragon or eerpent, wiformed of God, and inhich in one of ths foundetion referencen in the Great Pyramid, Job is there degaribing the power, majeaty, and doinge of God, and was: "By his Bpirit he bath garnlahed the bespeng; bis bend bath formed the crooked [or fiecing] perponti"" The annotator in Begater's quarto Bibls very pertinently remetra, that the last atatament mast refor to mome constallation, "it an it jot likely that this inapired writer should in an ingtant doscend from garnighing the has Yens to the formetiot of a reptile." Barnes saye, "s Thare can be no doubt that Job refers bere tuone of the conetellitiona, Which, it meema, Fas then known an the eerpent of dragon." But if 8 , then the gernishing or edoraing of the hespens in general, must refer to the arrangement of the conetallations in general of which the making of "the flegigg eerpent" in one, And wo Barmes concludes: "The acmer in the pangege before us is, that the greatness and glory of God are emen by forming the beanifinl and glorious constellations that edora the sky;" not aimply the stars of which they are compoged, but the frures  evaggelic theology contained in these contallations which can easily be read, and which is so utherly eonfounding to the rationalism of our degy thel there ought to be no delng in bringiag it out. They are the Gogpel on tha aty, formed of God, of by "bis Byirit" inspiring men for the plurpoe, and the Pyrumid is thoir carthly coontarpart


A few months ago a Pennsylvania clergyman, much interested in these studies, and strongly impressed with the argumente for the supernatural origin of the Great Pyramid, auggested that if the Grand Gallery represents the Christian dispensation from the birth of Chriat to its end, there would probably be some reference to the great Reformation of the sixteenth century; that, if anything of this could be pointed out, it would greatly atrengtben the whole theory; and that he much wished nome examination with regard to this particular. Answer was given him that the suggeation refers to a matter of detail which we could hardly hope to find in so summary a symbolization of our economy as a whole; that, in the scriptural prophecies of the Church's career, specific references to the Reformation are very hard to find and identify; and that it would scarcely be fair to expect aymbolisme, deting two thousand years before the New Teatament, to be more full and specific than the New Testament itself. Nevertheless, it was promised to make some examination with reference to the suggestion.

In searching the recorded descriptions, notations, and measurea of the Grand Gallery, nothing presented itself from which to read
aught touching the Reformation, unless, perhaps, the difference of solidity and durability in the courses of the rampstones, interpreted in the same way in which I spoke of the great step at the upper end of the Gallery (pp. 135-6). In the condition of these rampstonea, some fucts do appear which rather singularly coincide with features in the condition of the Church at the different dates of its history, and which may have been designed to express those features. Without intending to found an argument on these particulars, they are sufficiently curious and interesting to be noted.

The rampstones on the east side of the Grand Gallery, from 1087 to 1186 inches from the beginniag, acem to have been unusually weak and frail, as much of the ramp for this interval is almost entirely broken away. So on the west side, from 1240 to 1317 inches, the ramp lans considerably yielded, and is much broken awny. So the incisions in the ramps, that is, the rampholes or little open graves, on the east side, from 1087 to 1186 inches, are almost entirely gone, broken away. On the west side, from 1240 to 1317 inches, it is the same.

Another presentation is that the east ramp, from 640 to 1400 inches from the beginning,
is much "fissured and parted from the walls, also the floor from the ramps." On the west side, for this same distance, the floor is parted from the ramp, so as to leave in crevice half an inch wide.

Prof. Smyth remarks that "along nearly the whole diatance from 400 to 1800 inches of western ramp, and occasionally along eastern ramp, there are longitudinal parallel scratchea, forming almost a border, or species of intended ornament, following the direction of the ramp. They are infficted upon and along its upper edge, close vuder the top, and toward the axis of the Gallery. But, although the same lines are traceable far, they do not extend the whole distance, being more or less gradually retraced hy others."

If, then, we take an inch as the symbol of a year, as in other instances, we would thus have signs of weakoning and giving way from 1000 to 1317 , and so again from 640 to 1400. There would seem to be also the signs of violent and paried defacements, beginning with about 400 , and extending more or less, with some interchanges, down to our present century. Compare these indications now with the listorical facts and general condition of the Clurch at those dates of our era.
A.D. 640. This was the time in which lordly privileges and investments were conferred upon the clergy, introducing that wide and long-continued severance between them and the laity. It was the time when the Romish bierarehy gradually began to assume ite imperious authority, which grew and continued in its strength for so many centuries.
A.D. 1000 to 1300 . In this period the Church reached its most ruinous condition. It was the saculum obeentum of Christian history, the nge of darkness. It was during this time that the Church was rent into two opposing factions, the Eastern and the Western, which mutually excommunicated each other. It was the period in which transubetantiation was confirmed as a doctrine, Mariolatry inserted in the liturgies, converts made by force of arms, and religion turned into a mere mechanical routine. It was the age of Hildebrand, and the establishment of a Cmarism over the Church of God. It was the period of the dominancy of monkery in ita worst corruptions, when scandalous profigacy and' ignorance disgraced the ministry, when the reading of the Bible was probibited under the acverest penalties, when falee sacraments were multiplied, penauces instituted, indulgences
invented, the Church subjected to a hlind submission to a domineering priesthood, and interdicts and penalties dealt out upon kings and nations by a usurped plenary jurisdiction at Rome. It was the worst period in all the history of the Church, in which spiritual Christianity had wellnigh departed from the earth.

These are the inch numbers which include the greatest dilapidations, breakages, and defects. Take now those which indicate the greateat firmness and durability.
A.D. 1186 and onward presents parious movements for a better order of things, the beginnings of reformation, the revival of education, the commencement of the study of the classics and of theology as a acience, and the introduction of reason and sense into the treatment of sacred things. It was the age of Alexander Hales, Bonaventura, Albert Magnus, Thomas Aquinas, Duns Scotus, Roger Bacon, and the Magna Charta. It was the period when the papal power began to decline before the germs of free institutions and popular rights, the founding of universities, and the study of religious doctrines. It was the period when the human mind began to stir again. It was the period of the laying of the foundations
on which the great Reformation was subsequently wrougbt out.
A.D. 1400 and onward was specially marked as a period of reformers and of reformatory discussions and councils. It was the period of Wicklife in England, Huss in Boluemia, Gerson in France, Truler in Gerinany, and Thomas a Kempis. It was the period of early Bible translations, of the study of the Scriptures, and of general awakening and agitation on the subject of a purer and living faith, and a better morality, which came to fulness and matured fruit in the hundred years succeeding.

But besides the brokenness and waste of the ramps and the rampholes, and the damaging partings that appear, there are particular acarifications. They have the peculiar character of being "infiuted," or imposed by some adverse violence, partly on the eastern ramp, but eapecially on the western, from 400 to 1800. They are interchanged with each other, one seemingly running out, and then another taking its place. They tell of extraneous power brought to bear to tear and scratch the ramps, and to disfigure them. And when we consider the Church's history with reference to such scarifying external powers exerted in and upon the Church, it is difficult to conceive a more ex-
pressive figure of them than the appearances on these ramps, Going back to A.D. 400, we strike the very time in which Alaric and his heathen hordes came down like an avalanche, scarifying, oppressing, and crushing almost to destruction, the Church, with tbe nations which he, and those who so speedily followed him, overran. Soon after these barbaric invasions in the west came Mahomet and his victorious armies in the east, much after the same atyle; whose baleful scourgings of the Christian peoples and Church extend through the centuries. About that aame period emperors commenced their political interferences with the Church, putting forth enactments which had to be obeyed, conferring State powers on Church offices, secularizing the clergy, and enforcing many an extraneous and rasping domination in and upon the family of Christ, the scars of which can be traced in rarying lines through all the succeeding ages. The State legislation which is still betimes hurting and cramping the Cbristian household is but the dwindled continuity of the same scarifications.

I lay no epecial stress on these somewhat striking coincidences. If they stood alone I would not mention them. It is but natural that some stones in the ramp-courses in such
an edifice as the Pyramid should be more firm nnd durable than others, though selected with a view to equality. Nor is it marvellous that some accident should have inflicted those interlaced scar-lines and defacements, either in the course of the building or since. But still, if God really had anything to do with the construction of the Pyramid, He could just as easily as not have caused those weaker stones and tbose violent inflictions to come just at those places, and between those measures, where they would best symbolize these incidents of the history. Neither is it impossible that the builders ahould have consciously, by His direction, so arranged. This, however, is plainly to be seen, that these weaknesses and scarifyings do appear where they belong, on the theory that the Grand Gallery was meant to be a symbol of the Gospel dispensation, and that the facta in the Pyramid do strikingly accord with the facts of the history. It may be mere coincidence; but, considered along with so many other things of the same fitting character, it cannot be witbout some incidental worth, 吅 unexpected side-light, in confirmation of the conclusions touching this great Pillar of Witness. It is the more noteworthy for the details of the history with which it coincides.

## Outcome of the Grand Gallery.

But if the Grand Gallery is in truth a correct symbol of the Church's career on earth;if indeed we lave here a monumental attestation to those sacred prophecies and showings which the Scriptures have recorded for our learning touching this world's close, we are now so near ite end, that we cannot view it with seriousness and not be somewhat anxious about the butcome from it.

Everywhere does the holy Book inform us, that, as our dispensation begun with the personal advent of the Saviour, so it is to terminate with a second advent of that same Jesus, who is to come again in like manner as he was seen to depart forty days after hie resurrection. That second coming is also represented as sudden and stealthy-not totalily unheralded, but with the signs and announcementa of it unheeded hy the great body of mankind, including the nominal Church as well. Everywhere all Christian people are exhorted to keep themselves in thorough readiness, for the reason that "in such an hour as ye think not the Son of man cometh." Without these sacred instractions from Christ and hig inspired messengers, we could not know
these thinga, and could not read them from the Pyramid. But with the plain written word before uв we can find here a correspondence so exact to the letter of Scripture, that we must refer both to the same eternal prescience, and may assure ourselves of the true interpretation of the one hy the monumental attestations of the other.

Our dispensation is to have an end; followed hy a dispensation of sore judgment upon the unready when that end comes. This is Bible doctrine. And so the Grand Gallery suddenly terminates against a high, impending, solid wall.

But, although our dispensation (atur) is to come to a sudden and perpetual end, it is not the teaching of the Scriptures that the earth is then to cease to be, or that men will no longer live on it, or that all history is then to terminate. The earth will continue; there will still be people upon it, and some aort of history will go on. But it will be a very different history from that which now is. The dispenaation will he changed, and the whole current and condition of thinge auddenly and greatly altered. All the commissions and appointments under which the Church and Christians are now acting will then expire by limitation. Everything then will come under a new
order, determined by new manifestations from beaven, and shaped to a different administration. Time will not cease; worlds will not be miseed from their orbits; but the last day of this aiay will have expired, and the period of judicial retribution will have set in. Such is the tenor of the Scriptures, and such are tbe showings in the ending of the Pyramid's Grand Gallery.

There is a twofold outlet or continuity from this grand room of the seven courses-one above and one below. The one above is the nearest to the beginning, if we take the vertical mensures of it, for the south end wall leans inward about one degree. If measured at right angles with the incline of the Gallery it is about three times tbat distance further off than the base of the wall. This upper outlet was first discovered by Nathaniel Davison in 1764. It is at the top southeast corner of the Grand Gellery, about twenty-eight feet above the main floor, "only accessible to something approwehing to winged and flying, rather than walking, beings." It is a low passage, which the discoverer found almost closed up with the filth of bats, and which he with much labor and patience cleared out. He found it leading horizontally southward for about three
hundred inches into the lowest of those five "Chambers of Construction," which a clerical correspondent thinks ayinbolic of degrees and sanctuaries of rest in the supernal life of the saints. The low, unfinished room over the King's Chamber, has the indications of a sort of concealed retreat, far out of the way, incocessible, except to a few, and not significant of a permanent abode of life. Egyptology has no explanation for it. Nothing in the line of scientific symbol has so far been found in it. And in bihlical eschatology alone do we find any call for such indications, in order to furnish a thorough symbol of the final outcome from the Gospel dispensation, Note the Scriptural teachinge.

Immediately on the termination of the Shviour's judgments of the seven Churches, John, in the Apocalypse, beheld "a door opened in heaven," and heard a trumpet voice, which said, "Come up hither." At once he found himself in the Spirit, gazing upon the divine woaders of the bigher world. This is the termination of the Charch's earthly history as to the best and truest part of it The Saviour has elsewhere told us more plainly that, when the great day of judgment breake, there shall be some who, by constant watch-
fulness and prayer, shall "be accounted wor" thy to escape all these things that shall come to pass, and to atand before the Son of Man;" that "in that night" one in bed, or grinding at the mill, or out in the field, "shall be laken," while others "shall be left $;$ " and that those who are thus "taken" are "cayles," who, hy that ereption are to soar to the high unseen place, where the Lord, from whom they have their life, will then be. Paul has likewise exhorted us to comfort ourselves with the doctrine that, when the trump of God shall sound, "the dead in Christ shall rise first; then we which are alive and remain shall be caught up together with them in the clouds, to meet the Lord in the air." Such revenled fucts as to one outcome from the dispensation that now is, call for just auch an arrangement to aymbolize them as we find in this top outlet from the Pyramid's Grand Gallery. And there it is, for no other agcertainable purpose than just this, adding another most significant item of evidence that this Gallery was really intended to be a symbol of the Christian dispensation, and furnishing monumental proof, of four thousand years' standing, to the truthfulness of the literal interpretation of God's Word on this momentous subject. Can any fair and
honeat man believe that it just happened so? Have we not here "a sign and a witnesa unto the Lord of hosts in the land of Egypt ?"

The only other exit from the Grand Gallery is through the passage leading from it to the King's Chamber. It is continuous with the floor of the Gallery itself beyond the great step. If the Grand Gallery, therefore, refers to earthly life, so must this passage relate to a continuity of eartbly history. It is in no respect the contiouity of the Grand Gallery. That sublime chamber of the seven courses ends most positively against that impeading mouth wall sixty-one inches beyond the great step. Every feature and characteristic of it terminates at or about tbat point. The ame floor-line continues, but nothing else does. It answers to the idea of earthly history continued, but put under very different conditions. The way out is as distinctly marked hy peculiarities of its own as the Gallery from which it leads. It is a low opening, of the same kind as that hy which the Graod Gallery is entered, only that it is very sensibly lower. It is but forty-four inches where the other passages aro fifty-two. It is the most humbling and trying part in all the Pyramid system of passageways. A man must pain-
fully bend in passing through any of them, but here he must crouch himself down into far greater inconvenience.

Sacred prediction tells of sore trials to the unready world when Christ comes. The engleeyed watchers are to mount up at the first aignal to the sacred pavilion of Christ's presence, and thus escape what is then to come upon the earth. The true Philadelphians, who faithfully keep the word of their Lord's par tience, called up through the door opened in heaven, shall be kept from the hour of trial then to befall the world. But, for all else that live, there will then set in a period of burdens and griefs which ahall bow them more and weigh then deeper down then ever mankind were weighed down in all the preceding hiatory of time. So the Scriptures everywhere alfirm; and here is a speaking correspondence with what they say, as vivid as any words can make it. The first hair's-breadth beyond the line of the Grand Gailery'sending brings the passenger down in painful humiliation, from which no possible relief can come for as many inches as there are weeks in a year. Could it be mere accident? What thought or fancy freak could have induced the huilder of a mere tomh to introduce such strange and incommoding, yet
such distinct and positive, peculiarities? And secing how expressively, along with the numerous other particulars, it falls in with the inspired recorde, may we not legitimately infer that the Spirit which fashioned these otherwise inexplicahle avenues, and stodied emplacements of polished rocks, is the same that indited the holy prophecies?

## Time of the End.

Whether the same correspondence will hold good as to the number of inches in the length of this Grand Gallery, time only can determine. A few years more will test and eettle it. Meanwhile, it is going beyond the province of these investigations, wonderful as have been the facts brought out, to assume and teach that the end will certainly come in the precise number of years from Christ's birth tbat there are inches in the floor-line of this Gallery. My office in this matter has been to trace facts and coincidences between the Pyramid and ascertained scientific and biblical truth, whereby to identify a wisdom in this myaterious pile, which coald only come from a divine source, and so to establish the monumeutal reality of inspiration, but not to make
predictions of the future. There are questions unsettled with regard to the precise year in which Christ was born, as well as some diversity of results according as we construe the several peculiarities affecting the mensurements, which must at any rate somewhat disable certainty and confidence. It is altogether better, therefore, to leave the number of inches in the length of the Grand Gallery untouched, and merely set ourselves to keep in watchful and waiting readiness for whatever may come, till the few yeara in the near future shall determine whether thinge are to turn out as they would seern to be indicated or not.

When the end of the present dispensation shall come has been an anxious question among Christians for nearly two thousand years. Inquiry, and desire to be informed about it, is the natural fruit of faith in what bas been foretold and promised in the Scriptures. No one should be censured or lose caste for being concerned to know when the great things of his hopes are to be consummated. The holy Apostles themselves were deeply exercised and often inquired with reference to this point. But God has seen best to throw a thick veil over it, which we abould not obtrusively try to lift by any over-curiog-
ity of ours. And by whatever indications Ied to think our redemption on the eve of accomplishment, we should never lose sight of the Saviour'a answer to those who sought bis instructious on this point, ammely: "It is not for you to hinow the times or the seasons, which the Fother haih put in his ovors power." It is uncertain and dangerous ground on which to adventure. Almost every century since our Lord's ascension has had its time set in human speculations for his return to judge the quick and the dead, but thus far all such attempts to fix upon the date have utterly failed, to the great discomfiture of those who thought themselves amply assured, thus piling up demonatration on demonstration to the truth of the Master's words: "Of that day and that hour knoweth noman." The Rationalistic world is ever parading these aigaal failures as the standing reprosch of all prophetic study, and we put ourselves in the position of very unapt and unwilling scholara if we are not effectively admonished by them to suppress our zeal and to practice becoming reserve touching specific dates of unfulfilled predictions. For more than a third of a century I have been much occupied with the study of these things, but it has not sufficed to bring
me into the clear reapecting the arithmetic and chronology of aacred predictions. That we are close upon the end, ao close that we should be in expectant readiness every day and hour, I do believe and testify, as the concurrent teaching of all the precepts, promises, and prophecies relating to the subject, and of all the light and probabilities within the reach of man; but just when the solemn moment shall arrive, or in what day or year it will come, I can hy no meana tell, and doubt if we ever will definitely know till the summons from henven shall call the ready and waiting saints to meet their Redeemer in the hidden place beyond the clouds. If any quote me as holding or teaching for sacred certainty on this subject anything different from what I here express, whether it be for approval or blame, quote what I do not mean and never have meant to he underatood from anything I have thus far said or written at any time in any place. History and observation have also ahown me that the human mind is ill prepared for sober profit from indications of definite time reapecting such tremendous matters, whatever guards, as mere conjecture, are thrown around them. There is nothing that more readily dazes the understanding and pute
unrcason on the throne, whether on the part of those who accept or those who cavil. I have betimes felt called, for purposes of general information, hypothetically, and witbout thought of indorsement or denial, to give what others thought and argued, or what was implied in interpretations extensively accepted; but instead of the statements being taken as they were intended, with the plain and amply expressed reserve as to any judgment on the certainty of the premises involved, possibilities were seized upon as if they had been pronounced doctrines, likelihoods as if they had been given as convincing proofs, and the methods and conelusions of others as if they were my own undoubting convictions, thus evoking harah and undeserved animadversions on the one hand, and leading unfortunate encouragement to fanatical assurance on the other. And because of this strangely feverish disability to deal with ordinary soberness respectiog even the most guarded presentations on this subject of the time, when the length of the Pyramid's Grand Gallery, viewed as a symbol of our dispensation, wes touched in the preaeding Lectures, I purposely left the figures far in the background, couching the statement in indefinite terms, quite sure that
if baldly given they would be unwarrantably seized, magnified, and used by some as an alleged element of definite prophetic certainty, which I did not and do not now consider them.

In view, then, of all the facts of the case, this only needs to be added here, to wit, that enough appears from the present atate of these Pyramid investigations to serve as a very solemn admonition to all men to bethink themelves of what Jehovah has foreannounced in his written word, and to take heed leat at any time their hearts be overcharged with surfeiting and drunkenness, and cares of this life, and so that day come upon them unawares, "for the day of the Lord so cometh as a thief in the night." The Scriptures make it the solemn duty of every one to be in constant readiness and expectation for what must ahortly come to pass, no matter what may become of the Pyramid theory. Meanwhile, we incur no risk, and inflict no damage on ourselves or others, if we are the more quiekened by the seeming intimations of this mysterious pillar to what is equally our duty and only security apart from any of these Pyramid deductions, It will not do to conclude and any, as a matter of faith and doctrine, that our Lord will certainly come
when the number of years from his birth has equalled the number of inches in the floor-line of the Pyramid's Grand Gallery, as that would be to propound for anmistakable divine truth what yet remains to be attested as such. But just as little will it do to conclude and say that our Lord will not then come, seeing that any dny or hour may precipitate us into the midst of the opening scenes of the day of judgment. God only knows what the future will bring. And, in view of the inscrutable uncertainty in which He has seen fit to envelop this question of "the time," the plain command to all is: "Watcl, therefore, for fe know neitrer the day not tae hour wherein the Son of Man cometh."

With these remnrks I close tbis discuasion. I have, in good faith, discharged what I was led to consider an important duty with regard to this Pyramid subject. There was room, call, and necessity that the wonderful facts of the case should thus be hrought out and put within the rench of our reading public in a form which could be readily followed, understood, and mastered by all. Whatever imperfections may have attended my efforts, the work which I proposed to myself is now done. I have thus furnished what may be taken as an adequate popular introduction to all the ex-
isting information touching the oldest, greatest, and most marvellous edifice on the face of the earth built by human havds. The varied and important worth of the aubject to acience, philosophy, and religious faith is my apology for pursaing it so far. The same would also be amiple justification, as it ahould be a powerful incentive, to still further and more thorough investigations, particularly as we are as yet only a little way within the margin of what I believe is yet to come out of that great Pillar of Witness. I have no regrets for having bestowed so much valuable time and diligent labor in this direction. I have been abundantly rewarded in the satisfaction the study has afforded me, in the new fields of learning and thought it has incidentally opened to me, and in the clue it has given me to many things of worth which I never otherwise could have reached. And if any have been, or shall be, moved by may endeavors to follow my example in trying to search and construe this sublime memorial of the primeval world, I feel sure that they will in the end agree that I have not spoken without reason, and that I have not erred in pronouncing the Great Pyramid of Egypt A Mreacle in Stone.

Gazing, rapt, awed, upon that mighty pile, The mind is flled with wonder, and we ask, Is it a tomb or teacher? Whence ita atyle? What men, what age conceived, achieved the task ? Wonder of wonders in thie land of Nile, Of what great thought is it the type and mask I

Its chambers, passagea, mysterious Coffer, Its Iayers, angles, measarements, and atone, All, each, to unsealed eyes of men now offer Bolutions (for four thousand years unknown) Of truth which stand against the doubting acoffer, The clearer from their test, as fully shown.

How, in its presence, modern pride is bowed! Its hoary wisdom whispering from the dend, Sublime, myterious, swfil, with the shroud Of forty centuriea wrapped around ith head I
We catch its muffled tones, now low, now loud, And hear with wonder nigh akin to dread.

## APPENDIX.

## EXTRACTS FROM RECENT WRITLRS.

As a sequel to the preceding lectures, it may be proper, and may give satisaction to many readers, to prement the opinions and statemente of come others; in their own worde, Fith regard to this interesting subject. $\Delta$ fow such extracte art acoordingly inserted here by way of appendir.

[^53]would act usa atandard protest againat sahaism and other idolatries, and also against tho injustice which invariably asarts predominance over the mass of ranakind, when thes enlist themselves in the ecrvice of falsalhood. Certain scientific and physical conditions required that the megrificent prolesting fiblurie ahould be paced in Egypt ratler then in Bulbylonin, the seat of the undivided apray of aabnism. But thera is no reason to believe that intercourse between the primeval nitions was sa limited that the religious and moral lessons intended to be taught by the chief wonder of the world at that time could not reach from Egypt to Habylon. Doubtless it would be treated by the followers of sabaisni in Babylon just as it appence to have bean by those in Egypt. That is to say, there would be continuance in aubaigm in Dabylon just as there was in Egypt after the atrong hands of the royal buider, who trod under his feet Esyptian gods, were powerless in death. At the same time the Ergptians would appear to bave retainad and banded down a partial knowledge of the trup character of the pyramid, until it beenme gradually obscured, and was at las quite lost. But anoongst the worebippers of the Lord God the knowledge of its trat character wha long preserved, an would appear from the symbolic uee of it made in the Book of Job, and elsewbere in Scripture. The traditional knowledge of $i t$, or of the seience symbolized by it, preserved among the people of God, was one means we believe of saving them from that worship of the sun, moon, and atare which Job declared to deserve, even on ita firat appearance, death at the hands of the magistmte. And I may state that for my own port 1 trace the fountain of physical knowledge which was opened by God tor primeval man, and which was aymbolized by the Great Pyramid, certain approaches inade by some Gruek philosophere to annc coanical piews deemed to belong purely to modera times. These philowophers themselves ascribe their krowledge of these things to Eastern and Egyptian sources. Thus, Thales held all thinga to hava originated in a Auid
subatance; Lucippus, the earliest Greak teacher of the atomic theory, held, as Aristotle tells ue Pythagoras did, that the heavenly bodias revolve about each other, committing the error indeed of making the sun revolpe cbout the moon, bat etill teaching trulf that the earth repolves sbout the sun, and elso abont its own azis, by which leagt the alterastion of day and nigbt is caused. It appeare to me that what if true in thile early astronomical view is ao far removed from the obvious and common conception of the subject, as to warrant the idea that the erroneous poirtion of the statement was man's corruption of the pure primaval knowledye eymbolined by the Great Pyramid, for this mang other reasons, that it might show us in these last daye bow God supplied pbyaical knowledge to primeval man that be might be warned againat auch monatrous auperatitions as sabaism, and that the posession of e messure of sueh knowledge might preserve his true worshippers from many deatructive crrors.
"But again, this primeval'monument, after the lapse of more than four millenniuma since its construction, is aubmerving at this wery day troat important parposea as reapects wisdom and knowledge. The gradual diecloaure of its acientiflc mysteries is a result in a great measure of the partial dilspidation it has auflired, especially during the times of the barbarous Mobammedan rule. The number and importance of the lexsons which ita disclosed myatery teanchea in inderd very etriking. Thus it testifles to the atate of the etellar heavens at the time of ite building, and teaches at the same time its own age. It helps aiso to determine the date of the flood, and to give consistency to the chronology and bistory of diluyian and post-diluvisn times. It teatiflea to the importence of the exact and of the physical sciencss-terrestrial and cosmical-not merely from the utilitarian, hut from the religious point of view. It shows that some unidolatrons men posaessed extrandinary knowledge in thase aciencea just when the whole world wes going widely atray in tha Forabip of sun, moon,
and stars, and it thus seala, wa with a divine impress left on adamantine materiala, the truth that sound acience is not only a bandmaid but a defeader of mound religion, Moneover, it shows the symbole of juat weights builded into a most durable repertory, the they ware afterwarda laid up in the Lemple of Jerusalem, at the very time when a brutal tymany was gradually overgpreading the idolatrous world, which may be said to have had its chief seats in Egypt, and in Buthel, the capitol of Nimrod, that mighty hunter before the Lord-a tyrany which, instead of revering a justice deternized scientifically according to the measures rad waighta employed by Opilex Mundi himealf when he "fetched in compass round the universe,' nad ' weighed the hillis in a balance, deapised all justice, and criabed the loody of maukind dowa iato benste of burden.
"Sucl are the thinga taught ua at thie day by the Great Pyramil, re there are noble men of acience sufficiently animated with Christian truthfuloces and couraus manfully to proolnim. We thue see a united science, righteousness, aud religion testifying from the Grent Pyramid with a reswakened mien, just as they were intended to do more than four thousand yearn ago. The oldest and noblest buildiug is thus seen to be at one in testimony and in spirit with the oldast and nobleat book. God is making that great name for Liraself, I belijeve, by the Grent Pyramid at this day. Which the builders of the tower of Hubel sought to make for themgelyes If there be any truth in the apinion of those who belleve that they can point to some of the remains of the tower of Babel, then these now present unly a mass of rubbisb, blasted and pitrified by tho wrathful fires of heaven, though the chief part of the buildinga has undoubtedly suak out of human aight into the soft alluyial soil on whith they were so unwigely erocted. Their only lesson is that of desolation wrought by a just divins rengeance, and the sbortcominge of buman idens, Tbe Great Pyramid, on the otber hand, is lastiog ar the bills, even es the rocky hill on which it is so securvily
founded, while the very denodations it has experienced by the torrents of barbarism rather than of the elernents, have only furthered God'a plan of making it his witness to ecientifle truth in ite relatlons with justice and religion in these last daya.
"Putting together then the various thinga wa have ingisted 0,1 ask whether it is after all ao wild and chirnerisal an idea that God should have stirred up, in the primeval age of the world, men who knew him, and who inherited or liad imparted to them a divitely taughtacience to constract this greatest of all builded monumente? Is not this ruther the rational view to take of it? Ifere, for one thiag, in a scientific symbol, as measurements, calculations, and reamonings of an incontroverlible kind prove it to he. This matter stapds on its own basis. Aggia, Scripturocontains a number of allusions and aymbolic expreasions which find no object eo exactly add completely suitable wa this confeased 'wonder' of the ancient world. This also atanda on ite own basis. Still further, some such sufficient renson as the symbolism of the Gruat Pyramid presente is required to account for the wise and senaible viems of the Cosmos enterlained by the true worshippers of God from the carliest ages. This is certainly a consideration of weight nat easily costaside. In this last consideration is also seen one part of the final cause for the constryation of a symbol like the Great Pyramid shortly after the arcangement of the building of the tower of Babel, while another portion of this final cause is geca in the inestimable benefts, historical, economic, moral, and religious, conferred on us by the scientife character of the Great Pyramid at this day.
"Hera, then, are four firmily grounded, quite independeat reasons, which urite in supporling the benutiful and no Les valaable theory as to the divins anthorsbip of the Great Pyramid. We can dincern clearly in our subject alfo the illustration and confirmation of thit grand moral trath: Man's ambitions and wicked desigus for making a name to himeelf, as a power without God, are invariably blasted
and end in shame, but God's worlss endure and teatify to the glery of that narue which witl outlaet the sam, moom, and stars,"-Stoen Homilies on Ethntic Inepiration, 1871, pp. 60-64.

## J. RALSTON SKINNER.

"To e miad uoblasmed by the prepossession of a theory, the essertion that the Great Pyramid of Egypt was bnilt to perpetuate a series of mepsures, astromomical and otherwise, and to contain a mathematical and geomatrical syatem of calculation and adyasaurement, cannot be recalped with incredulity. . . .
"As to the ohjects of its construction, one may be taken ab adronomical, for the fuets that the north base side coincides with the parallel of 30 O north latitudes, and that the runss, 的 to its sides, evidenced by ite corner bocket livee, is oriented as perfectly as could be expected of human ability. Anotber may be taken as prometrical, as it was oo built that ite height should be to one-hnlf ite circumference as diameter to circlumference of a circle. . . .
"Hence it exbibits itself as one not ouly momumenting a mathod of quadrature, the elements of which we poesess, but also a measure of the sun's time, and also the inch and fout values. . . .
"This mearure is jugt that one that, with the nacienta, seems to have atamped the whole syelem as natural or divine, i.e., showiug that man wes bnt dealing in measares in somesorl shadowing forth mechanical principlea of conetruction, which it had pleased the Creator of all thinge to adopt an the law of creation.
"The original (ideal) pyramid, whence the real pyramid of the Nile aprings, is directly constructed from the origibal ulements of relation of diameter to eircumfercucs of a circle. This is circular elements one. On the linea of this origiual pyramid aptings another, whose elements ara circle twoo. Out of the elements two enother set of elemente is obtainable, governing the interior work of the pyramid
proper; these elements are thote of circle three. (Problema given in detail.)
"These are the circlea whence the completa pyramid, an . Lo its outhide and as to its inside, is fitly framed and put together, giving the measures of the heavens and the earth.
"Whils the triangle represents the pyramid, the triangle and circle represent the elements from which the plane magaure of the equare of the base of the pyramid is derived. . . .
"The enthor believea it to be shown that the elemeats of construction of the pyramid, and their use, agreanbly to the intention of the architect, have been proved, and that these are shown to be used re the foundation of the Bible structure from the Erst clapter of Genesis to the closiag scenee of the New Tustament.
"But while these elements are rations and ementilice, and in the Bible rationally and scientifically used, let no man consider that with this discovery comes a cutting off of the spirituality of the Bible intantion, or of man's relation to this apiritual foundation. No house was ever actually built with tangible material ontil fret the architectural dasign of huiding had been accomplished, no mattar whether the atructure peas palace or hovel. So with these elements and numbers. They are not of man, nor are they of his invention. They have been revealed to him to the exteat of his ability to realize a syetem which is the creative sybtem of the eternel God, opeant all times to man for his advance into its knowledge, just in the memare of his application and brain ability, free to all as is the water we drink and the air we breathe. But spiritually to man the walue of this matter is, that he can actually in contamplation bridge over all melarial conatruction of the Cosmos, and pass into the very thought and mind of Gool, to the extent of resogrizing this aystem of design for cosmic crea-tion-yea, evon before the worde went forth, Let there be! It in the realization of the existence and mental worlinge
of the Divine Mind, by means of the little primal cube and its circle, which to us are tangible realities, and poes to prove to man that bis soul lives, apd wil continue to live and thus he may take little heed for his body, which is, however exquisitely constructed, but a mass duiling the Hner power of his mental whole.
"The best and most nuthentic vehicle of communication from God to mun, though many cxist, is to lof found in the Hebrew Bible, the preservation of which in its exnctitudes cnn only be ascribed to a spiritual supervision. $A$ like preservation of a real monument of the practical application of the Bible secret stande to-day on the banks of the Nile,"一Key to the Hebrer-Egpptian Mystery in the Source of Measures, 1875.

## charles Casey, Esq.

"It is unnecebsary to multiply Eastern suthority for the sacred and scientlicic character of the Pyramid as opposing and auperior to the Weatern belief in the tombic theory, which, however, naturally arose and was conlirmed by the erroneous conelusion that the une and character of the primary pyranaid might be truly predicated from the unquestionahle tombic pyramida of a later date. It strikcas the writer that as far 暗argument goes toucling the featurea claimed for the huilding, it would make go difforence whatever if a massive mural tablet bad bean found aet in the mansonry of the exterior, a lid found on the Colfer, a mummy of Cheops in it, etc., etc., as the fect would still remain, that the masoleum (if you will) and sarcophagus (if so insisted) were deaigned hy an architect who erubodied in their construction all the primary truths clnined and verifled, while still leaviag them saited to seeondary naul inferior uses, just ea the Royal Scytale of tha Spartan Einge, while esseutial to tranalating a decree on which hung the fate of nations, might berve to be used for any secondary ригровс.
"Therefore, the real and only queation is, Whetber the

Great Pyramid does or does not contain the metric features claimed for it? If it docs, there remains no doubt that the novhitect who embodied the truths exhibited must have then superhumnaly ingpired, as in the age in which he lived no such knowleilge exjsted among men [except from Revelntion]. If it docs not contain those metric features, demongtrative refutation is within reach of line and rule, and the Pyramid stands to be queationed of end reply for itself to all gainenyers.
"To those who reply, 'We admit the measures, but we deny the conclusions drnwn fron them,' the anawer is, that if the mersures, ne in the instunce of the base side length giving the length of the solar tropical year, exhibited bat one inatance of preconceived deaign, it might be anid that buch coincidence was accidental, but when a concatenated obsin of design is shown of the highest order of ecientific knowledge, the denial of sueh design in the mind of the anchitect is of that class which rofutes itself by the absurdity of ite arsertion.
" Every dispassionate reader who has phid due attention to the ergument advanced must be impressed with the convietinn that in this our day and generation, no more innportant question or discovery has arisen or been made than the charncter and revelation of thin Sethic monument, the Great Pytamid, in, but not of, Egyptי"-Philitia, or the Solution of the Mystery, 1676, pp. 30, 37.

## JOHN TAYLOR.

"When so many evidences of the scientific knowledge of the founders of the Great Pyramid prosent thernselves, these fucts cannot be disregarded. The difficulty may be great in supposing a people to have been in cxistence at that early period, who were capable of executing a work of so vast a marraitude oo purely scieatific principles, but is it not also probable, that to arme individuals God may bave given the knowledge, even at that eardy age of the world, for which we are sow contending? How could Noah have hullt the
arts if be bad not bean divinoly instructed an to its fabrication? And might he not beqe been equally ingtrunted in the knowledge requisite to form the Great Pyramid? Hoth theso wouderful works are based on measure, and the latter structure sbowe a knowledge of those mensurea which were in use before the flood, as well es of those which were afterwards established, implying therefore an acquaintance with antediluvian thinge. How could the Arabian numerale, and the knowledge by which they Fere 00 arranged ate to increase tenfold in power by change of pogition, have been discovered so eoon after the deluge, if the same syetem had not eristed befon, or if divine assigtance had not been granted at eo early a period after that event ? Even ofter these flgurea had once been known, the majority of mapkivd for at lengt three thousand yeare remained ignorant of their uer, and neper again hit upon the arrangument as a discopery.
${ }^{4}$ Mosen, we are told, was admonished of God when be was about to make the Tabernacle, which was to aerve as the example aud ehadow of beavenly things, 'for abe, eatith he, that thou make all thinge eccording to the pattern showed to thee in the Mount." There is an orginality in the character of these early cavelationa, which showe them to Lave had a higher cource than that of man'e presentintelligence, great at it may seam. Our modera discoveries are rather inferembial, consisting chiefly in the application to things known to purposee previously unknown. Of this kind is the invention of the art of printing. I would not detract from the importance of modern discoveries, but I think they eeem to benefit mankind less than the communication of the art of ehip-building, of the Arabian aystem of enumeration, of geonetry, or the means of meaburing the earth, and of the art of alphebatic writing :

"In regard to the Great Pyranid, it wras the happy dis corery of the tro casing utones, Fbec all were thought to
be deatroyed, which at once changed conjectore into cerv tainty. We now probably know all that we ghall ever know respecting the origin and purpose of the Great Pyramid, and all that we require to know. We now find that all the seemingly different measures, when properiy underatood, are equal to each other, and mean the same thing. By the konwledge derived from the angle of the casing atones, and the length of the base of the Great Pyramid, all those memerrea of proportion which seema arbitrary in the Table of Constants, are found to be no longer so. The measurea of the earth are do leas cartainly eatablisbed.
"When we find in so complicated a series of figures as that which the measuree of the Great Pyramid and of the earth require for thair exprespion, rotnd numbers present themselves, or euch as lesure no remainder, we may be sare we have arrived at primitive measurea. "一The Greal Pyramid, Why ras it Built? and Who Built It 1864.

PLAZZI SMYTH, F.H.S.E., F.R.A.S.

## ASTRONOMER ROYAL FOR ECOTLAND.

"What then ie, or is to be, the end or use for which the Grest Pyramid was huilt ?
"The manner of that end appeara-on putting facte to-gether-to have been, to subserve in the Dith thousand of years of its existence certaic preordained intextions of Gol's will in the government of this world of man.
"I preaume not to apeak to buy other than such parts of the huilding as have already practically developed themselves. Herein, too, enough seems now to have shone forth to enahle any one to state roundly that the message Wharefor the Great Pyramid was built is largely of a duplicate character, or thus:
"(A) To convey a dew proof to men in the preent age as to the existence of the personal God of Scripture, and of his actual supranatural interferences in patriarchal times with the phyaical and otherwisa only natural expart-
ence of men upon earth. Or to prove in spite, and yet by means, of modern acience, which in too many cabse denies miracles, the acturl oceprrence of an ancient miracle, and if of one, the possibility of all miracles recorded in the Scriptures.
"(D) In futililment of the firat prophecy of Gedesis, which tewhes, together with all the prophets, that of the seed of the woman without the man, a truly Divina Saviour of mankind whe to arise and appear amonget men, in poverty, tho, and hunility; in further fulfilment thereof, the Great Pyramid was to prove that prechely as that coming was a real historical event, and took plece at a definite and longpreordained dete, so bïs second comiog, when he shall deecend as the Lord from henven, with the viem of reigning over all mankind, anil ruling them ell with oue divine eceptre, and under one all-just, beneficent, omnipotent away, that that great event will likewise be historical, and will take place at a deffinite and elso a primevally preartroged date.
"Now let us look a little closer into the first of these.
"It would seem to be, that an omaiscient mind which foressw in the begiuning the whole history of the world under man (especially the widespread ecience koowledge of our day), ordained that the mesenge, arguments, proof of the Grent Pyramid should not be expreseed in letters of any written languape whatever, whether living or dead, but in ternas of scientific facta, or features aunenable to nothing hut science, i. e., a madium for the conumuncation of idena to be bumealy known and interpretable only in the latter day.
"Not in the day of the Great Pyramid at all, but rather binca the revival of learning in Europe, no pure mathematicnl question bats taken such extensive hold on the buman mind as "the aquaring of the circle." Quite right that it sloould be eo, for a time at least, seeing that it is the basig alike of practical mathematics or high astrenomy. That quantity under the form of $\pi$ proportion, given in almost
every text-book of mathematics to more decimal placea than there is any practical oceasion for, having been ageertained for one hundred or more yeara, anea mipht rest content rad go on to other suljects. But ourubers of them de not mad will not. Hardly a year pasges but some new aquarer of the citcle appears, penerally a self-educated man, But occasionally the most highly aducated university mathematicians niso eater the Beld, and bring out perchnace sorne nete algelraiceseries by which a more rapideduveyance to the true numbers of r may be obtained. That aumerical expression is shown on all hands and in sll countries to he one of the most wonderiul lating characteristics and necesary reaulty of the growth of acience for all kinds and degress of inkelectual man, and in an increasing proportion as they arrive at a high state of civilization, material progrese, and practical development.
"Is it not then a litelo atrange that the Hrat appect which catchea the eys of a scientific man looking with scieace and power at the ancient Great Pyramid, is that its entire mass in itt every separate particle, all goea to make up one grand end particular mathematicnl figure expressing the true value of $\pi$ ? If this whas accident, it when very rara gecileat, for none of the other thirty-geven known pyramids of Egypt contain it. But it was not accident in the Graat Pyramid, for the minuter detaile of its interior, an shown, aigunlly condme the grand outince of the exterior, and ahow again and again those peculiar proportiona, bath for line and area, which emphatically make the Great Pyramid to be, as to shape, a $\pi$-sheped and an $\pi$-memorializing pyramid,-the earliest demonstration known of the numerical value of that particular form of equaring the circle whicl men are still trying their banda and headu upon,
"Again, in physica, as a further acientific aulvance on the foundations of pure mathematios, is there any queatiou so replete with interest to all human kind as what eupporta the earth, when as Job truly remarked, it is hung frem
nothing, suapended over empty epace, and yet doea not fall? As it regularly repolves around a bright central orb, and in such a manner es to obtain therefrom light and beat suiteble to man, and day and night, what is the nature of that path which it so describes, and what is tbe distance of the physical life luminary round which it now reqolvea? As in equaring the circle, so in meneuring the digtance of the earth's central aun, both learaed and unlearned have boen working at the question for twenty-three hundred yerre. and are atill employing thembelves upon it. Nothing that nations can do is thought too much to devote to this question of questions in physica for the future behoof of a world grown acientific. Yet there is the numerical expreaainn for that cosmical quantity nailed to the mast of the Great Pyramid from the eartiest agra, for it is ita mast or Fertical beight multiplied by ite ownfactor, the ninth power of ten, which is the leagth all modern men are seaking, and struggling, and dying in order to get a tolerably cloae approach to the arithmetioal figure of. And this gecarate aurd distance at the Pytamid is accorppaied by an exhibition of the space tray yelled over during a whole circle of tha earth's revolution, and the time in which it is performed.
"And if from solar system quantities we turn tomatters of our own planet world in itgelf alone, -does got every inhabitant thereof yearn to known its eize, and yet was not that impossible to all men of all the early agea to attain with any exactoess 9 But preciaely that thing which all mankind from tbe creation up to the day of Job had not accompliahed, and had no idea or power how to set about to perform it, and did not make even any rude ettempts in that direction during the following twenty-five hundnod years-though they do know it now with tolerable ecen-racy-wna not only well known to the euthor of the design of the Great Pyramid, but was thera employed as that woet useful standard in terms of which the bese side length is laid out, or with accurato decimal reference to the earth's peculiar Agure, ite polar compramion, the amount libereof,
and the moas parfect method of preserving the record for all men. Who but the Lond could have done that wooder above man's power then to do ? Who, indeed, hut the Goa of serael could have parformed this lest-mentioned still greater wonder than eny mere linear meanare, bo far ra ita exceeding difficulty to men even in the present scientilic generation is concerned, and could have actually introduced into the King's Chamber Coffer, and the asid chamber itself, an expression for the next most important quallity efter size, of the earthball we live upon-viz., its 'mean denaity,' beaddea expressing in the base diagonals of tha Pyramid the enormous cycle of years composing the earth's disturbed rotation or precession period of the equinozes?
"Yet, with all this amount of science brought before us out of the Great Pyramid, yea, even with all this quintersence of scientile reaults, let us not be run a way with by the notion of some, that to tefech sciedce was the beginsing and end for which that huilding was erected. . . .
"The second part of the end wherfor the Great Pyramid was built, I have already said, appears to begin eomewhat thus, viz., to abow the reality and the settled as well as long preordained timen and semoun for each of the two cominga of Chriat,-both for that one which has been (eightean hundred and seventy-geven yeara ago), under whoee then commenced spiritual dispensation we ere still tiving, and alse for that other one in lingly glory and powar which in yet to beam upon us.
"When thntsecond coming has been appointed to take place must be a most momentous question, and it is oua to which I can only reply, that an far as the Great Pyramid seems to indicate at present in the Grand Gellery, the existiag Christian dispensation must frat close in apme manner or degree, the azints be removed, and a period of trouhle end darkness commence, for how long it is diffloult to say, seeing that the acale of a pyramid inch to a year appears to chnoge there. Very long the time can hardly ba, if the pyramid atandards of the metrology of that uni-
versal kingdom, the only successfal aniversal hingdom that there erer will be on carth, the kingion of the Lord Christ, are already beginning to appear from out of the place of security whers they were deposited in the beginning of the world."一Our Inheritance in the Oreat Pyramid, 1874, pp. 483 -47.

## J. G. IN EDINBURGH EYENiNG COURANT, MAY 9th, 1868.

"In our opinion the idea of a Divine interposition in tha planning and conatruction of the Great Pyramid, when closely contemplated as apringing from all the facts and relations of the case, is perfectly rational and credible in the eatimation of a rightly instructed mind. Rightly instructed niind, we eny, for a man may be mighty in ' midden' philosophy, and ignomat an a child in that great mother science of catholicend revented theology, based on the grand desigu argument uttered by the Cosmos, on the wide testimony of universal history and tradition, and on that testimony of humangature to religion which is so inextinguishable that it drives the very atheistic positivists into that ineffably sad idolatry of bumanity itself. It is on this grand testimony that the astronomer meyal for Scotland builde, and we rejoice to be of one mind with him. And this, not becruse we think the trath of religion, as the grandest bistorical element, is dependent on the truth of the theory es to the Great Pyramid, but becouse the principles involved in the full argumentation of this theory are arnong the principles of antholis theology according to our description of it, and pecordingty, whether the case of the Great Pyramid be one to which these principlas are rightly epplied or not, the principles themelves dare not be poot-poohed. The selfcalled "advancod thinkers' of the archeological achonls may scout them, but we hold, on the universal testimouy of sacered and profane history, that man'satory does not take its rise in a dunghill. Our creed in this matior is that blaseed belief hasded down in Scripture, and chanted by
the grand choir of historisns and peets. The theory of the Pyramid, too, falls in completely with the grand strain. It pointa, on the ground of remarkable facte and conncidencen, to the Great Pyramid an an instance of those divine interpoailions which are known on the testimony of Scripture, corroborated by tradition, to bave been made as occasion called for them, during the infant ages of the world.
"Moreover, the Great Pyramid, viewed in the ligbt of this theory, is seen to be e peculiar one among other elements of prophecy, cast by Divine Providence as aced on the watere nmong the nations, to ripen in due time and serve most beneficent ends in the appointed acenson.
"There existed in the relimions books of the ancient Persians, undoubted prophetic and apocalyptic elements, which certainly contribuled along with other elements in the Magian system to form that character which Htted Cyrus and his Peraians to punish the grossly idolatrous Babylonlans, and free Gol's ancient people. Again, if ever there was a clear case of divioe interposition of the more ordinary kind employed for great moral and religious ends, it may be ecen in the moral and religious revival, buch at it was, that took ita rist in pagan Greace in the person of Socrates, and all that aprang from the influc nce, example, and teaching cast into sociely by that noble nartyr. Still again, it ie a matter of notoriety that the Romans treasured in the Capitol certain Sibylline hooles, that can be shown not to linve been favorable to pulytheism, still less to pantheism, and that they not only fell in remarkably in certnin prophelic statementa with the Hebrew Seriptures, but influevced the conduct of leading Romans themselves. All these we devoutly believe to have been arranged and provided by God, even as we know from history that they formed porrerful elements in forces that moved the cardinal events is haman history. And in any one no blind as not tosee that we live in times as momentons as any since those of the flood, excepting those yenrs when the Lord of Glary Limbell dwelt upon eaptl ? For how many are rendy to
bbout Io Pman! In the prin hope that at hast the 'Flu superstition,' as they call $i t$, taught in the holy Scriptures, and so marvelloualy aupported, is doomed to a apeedy extinction? Others are busily helping on thla sure consommation, as they believe it, hy adrancing and fortaring a strange philosophy, which (whatever lip worship soms of its sects may pay to revelation, pet in reality) takes man up at first as an ape-degcended enimal, reared in barbarism. and destined in the end (so far as their philoophy can ahow) only to make manure for the soil he aprang from,
"When farced to hearken to euch degrading opinions, is it not a hoon to be thankfol for, when there is presented to our contemplation a most nohle builded work, which propes how far removed from savageism its architects were, at a period when history and tradition alike testify that man and the world had juat emerged from anawful catastrophe? For in saying this we atand well aupported, and defy any one to digprove on the only valid and allowable groundthat of universal history and catholic theology-the reasonahleness and credihility of God/s interfering to inatruct and guide an architect, who knew and worshipped him, in the rearing of a grand symbolic building, soited according to divine forelmowledge, at least to stagger, and suggest wiser viewr to, certain of the 'advanced thinkers,' and rather too pensive a priori philonophers, of theme latter days."-Reprinted in Antiquity of Interlectwal Man, 1898, pp. 470-486.

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# A MIRACLE IN STONE; <br> on, THE GREAT PYRAMID OF EGYPT. 

EY

Joseph A. Seiss, D.D.

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notice, and afor reading it we can fully any with the author: 'It Fould verily neem an if the Pyramid wera abont to prove iteelf a bort of key to the universe'. "
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The Chiengo Interien.-"An interess almost amombing to enthoginam, has resently bean awakened in certain quarters on the anbject of the Great Pyramid. In order to get the most reliable information within our rench, and not to be entirely behtind the Limes, we have been reading these volomes (of Prof. C. Piuzi Smyth), an also one that has just been published by Dr, Soias, of Philadelphin, entitled A Mircecle in Slorse. We are free to any that we have read these booke with a growing wonder. The coincilences are very singular and even remarkable."


[^0]:    Pailidelpaia, September, 1878.

[^1]:    * Seo Rewlinnon'm Herodetun, Book II, chap. 124, val. 2, pp. 109-378.

[^2]:    - Nat. Hiet., tom. 88, beo. 16.

[^3]:    ＊It ie haprly popaibile that there what oneo a foreed entrance into the uppar parti of the Great Pyramid，long before the Huhemmedan tirus．At the beginning of the Grand Gullery there is a missing remp－stone，which once cocered the mouth of the well．This ramp－stone bernd to hape been forced out from below upwerde，ate a frasment of it is atill seen adhering to the next atona，beld by the Brm cement of the joint．Hence it it eurmied that aome fanatica of the dyanatien of Ethiopio intrudere，or tho Persinn conquerore afler them，forcibly on－ tered in search of treasures by mesps of the well，and then closed up the entrance again to conces！what they had done． This is thought the more probable，se the cther pyramids， which were used a rogal tomb，日eem to bave been entered and rified at como remote period of the pask．But whea we consider sowe of the high prophetic masning conpected with the Grand Gallery，and of that well out of which it Lakes ils begin－ ning，we would ratber inter that the huildere themselves broke out that ramp－atone，or sealed on that frament in a way in－ dicative of piolent burating out from below，as part of the grent intention and leacbing of the mighty fabric．Thit fo the more probablo，（1）beeuse no pirt of that missing ramp－atone has ever been fourd；（2）beceuse of the extroordinery difleculy of brenking atipy euch a slone from within the mell；and（3） the di田rulty of，nad abacnee of motive for，a removal of the stone fif broken in by the suppueed maraudere．Hence we conclude that the situation wet intentionatly bo lefl by the

[^4]:    buildara theuselves, and that no one after them had entered the upper parte of the Great Pyremid prior to Al Memoun'n bordes.

[^5]:    W The pritucipl Armb writers who give accounts of tho Tyramide are Abou Ma Bhet (died 272 of the Hexira), Ebn Khordadbeh (died about BuO of agnig era), Abou Hihan Mohnmmed (about 430), Masoudi (died \$45), A bou Abduluh Mohamined (died 454), Abd Alatif (born 657), Shebab Endin Ahmed (died about 745). Fbn Abd Al Hakm Makizi (died ebout 845), Snyuti (died G1i), atc. The detas given pre thome of the Hegirs, to whichadd ged us give the year of our ers.

    The worth of what theas men have reuorded, nay be learned from the fallowing teatimonics:
    "The authority of Arabwritern is not always to be relied
     p. 168.
    t The only fact which semern to bo eathblished by the Erstern guthors to whom we bape now referred (the Atabinns), is the opening of the Great Pyranid by Al Mmmoun; god even of tbat, no diatinct or rationgl ewcount exists."——oL. Howane YTBE.

[^6]:    and adds, "Thue far the Arabinga, which traditione of theiry are Jittle better lhan a roanance."

    Profersor gmyth, afler trying and Lesting the whole bady of accounts, Eaya, "Wi find oureclves standing again juet where Prof. Grehrea atood in 1637, obliged to rejnel avery rag of testimony from the followors of the fulse prophet." -Antiguity of Jntellectual Man," p. 277.

    * Other Europeen authors who have given eceounte of the Pryamida are Cyriacua, A.D. 1440; Breydenbaeb, 1488; Belloaiua, 165s; Johannea Hellicicus, 1565 ; Lawrence Aldereey, 158b; Jeane Pelerma, 1681; Prosper Alpinus, 1691; Baumgarten, 1694; Bandys, 1010; Pietro Dellb Vale, 1610; De Villemont, 1618; Rabbi Benjamia, 1638; moet of whom themselved vigited the Pgramide,

[^7]:    * Among theae may be mentioned De Moncanya (1047), Thevengt (16E5), Melton (1861), Veasleb (1684), Kifober (1666), Lebruv (1674), Maillet (1682-1709), Ds Carari (1698), Lucas (1000), Feryard (1701, Quatremere (1701), Egmont (1709), Perizonius (1711), Perg Sicard (1716), Shaw (1721), Norded (1787), Powocke (1749), Dr. Perry (1749), Fourmount (1705), Niebubr (1761).
    $\dagger$ The resulta of Davison's labors are contained in the Memoire of Hev. Robert Wulpole, and are alluded to at anme tefghb in vol. 19 of the Gutartorly Revieth. Utber writers on the

[^8]:    aubjeat after him, wers Bruca (17teg), L'Abbe De Binos (1777), Bavary (17\%Th, Volugy (1788), Browise (1792-08), Devon (1789).

    * Bee Colonel Coulella's remerta (1801), and partioularly M. Jomard'g deacriptions (1801)-

    Other writera are Hemilbon (1801), Dr. Whitman (1801), Dr. Wileon (1805), M. Capiglia (1817), M. Belzuai (1817)r Bignore Athanabi (1817), Dr. Hieberdson (1817), Mr. Webster (1827), Wilkinson (1891), Mr. Bu. John (1897), Oeptain Beott ${ }^{\text {nd }}$ Mr. Agnew (1887),

[^9]:    * Sue Egypt's Place in Hiblary, vol. i; p- 477, and vol, iv, p 107.

[^10]:    * From thia 10,9 ehape of the Great Pyramid there resulta also inuportat confirmation of the measuremente of the base rido and height. "The eide engle enmputed fromit emounta to
     from Mr. Taplor'a interpretation of Herodotus, or to the effect of the Great Pgramid having been built to reprementanarea on the side equal to the Leight equered $61^{\circ} 49^{\prime} 25^{\prime \prime}$. The verticul beights in pyramid (earth-commenaurated) inches are at the asme tume, using the same base sida length for them ali by the 10,9 hypothenis, 5811 ; by the $\boldsymbol{7}$ bypotheais 6818 ; and by the

[^11]:    Herodotur-Taylor hypothesis b807." The nearneas to idcatity of the resulte of such diverse methods amply provad thet tho absumed meanure of each base bilda, hy taking tha mean of all the practicel patasurementr betofen the aockete, cannot bo far from the true meature lifid out by the erchilecta, and lience a just fourdation on which to proced in any calculations or ennclusions that mey reaulh. Those who are diaposed to rid thembelped of auoh concluatons on the ground thet we do not know with aufficiont acearacy what la the leggth of the pyramide baso nidea, ought to consider thee rerartrable facta, and meet them in a fair mad acientife way, or olme admit that there is ne such vitipting ancartsinty as they too fondly agsume withoat being tble practically of by eny procese to ptove thet our fgures ere fine

[^12]:    6 "These azimuth trenchere are a art of large open ditches apreed about here and there on the surfaed of the bill, before the eastern face of the Great Pyramid, and oot very noticeable except for their reletive anglea in a boricontal plens; for these greve me the idea of lrat elght of leing atrangely similer to the

[^13]:    beginning of a horizontal patesnge like that to the Quepnts Cbutnber, and foulty the commencement of the upward ribing of the Grand Gallery with its ramertulle remps on oilher gide.
     the eame an obtain in the Great Pyramid." T'bey arpevidently the experimental models, tut beforehand inh an unnaeded part of the hill, giving the plan wowhe the Great Pyramid was to be wrought, and to wbich the huilders have accurately eanformed the migbty atructurg. Herg, then, in theac trenelies and tubea we still ind the plans atd drawing to which thees ancient menons worked, both of the outside angles and the inside arcangementa. We eannot anceive that these pagt and still enduring chate giving tbe features of the Great Pyramid in all its greatneas would thus heve been cot if the whole worr bad been conditioned to the unceriainty of the duration of tha king's life. Osbura ontirety repudiates Lepsius'a wlew of pyramid bullding."

[^14]:    * The following in a lift of these mancurea:

    The Freach sevants in 1709, porth side only, 9168 Eng. inches.
    
     Aiton and Inglivia 1865, mean of four sidea, 日llo a a Engliah Ordnanee Survajora in 1869, mean of four sideh, 9180 " "

    Mean of the Hwe, 9144 u :
    The $\Delta$ ton-Inglie measuring wes ropented frur timer, and the menn given ts that of the four areasures, which would juatly
     Yery moderaleiy weightiag it hepond the rest gives un the goneral man of nine thousand one hurdred and forty inchen, with a smell margio of posible arror on either aide. It ia greatly to he ragratted that we cannot refer to aboolutaly certuin'flguros, and ao ahut out all poseible cavil; but as the matter stande, the incet reasuomble and seigntific way of estimeting the truth is that of taking the properly weighted ment
     erech, and one at litble to be too high as the other too low.

[^15]:    * The highest cathedrala in the world are Strasburg, fwe thnuasen six hundred and airkenn inchea; Roubn, flve thoueand five hundred and airtyeetght; Bt. Stephen's, Fiense, , we thoueand two bundred and ninety-two; St. Petar'e, Rome, live ibousand one bandred and eighty-four; Amieng, flye thousand and filirbty-eight; Baligbury, four thougnad eight bundred and fortyoight; Freiburg, four thoneand aix hundred and twenty; Bt. Paul's, Leridnn, four thousand three hondred and thirty-two. The Cuthedral at Cologae wis weant to be higher, lut hever bas reached thia beight, naither bas any other koown towet. The oldest atending edifles In the world is thu the highest by thr.

[^16]:    * Some hupe doubted whetber iha Jews eithor bafipe or ufler the Exadug, ever bad a epeciel cubit of this kind. But that they had, gnd that the rame wan e Divinely given and authorized length masare, is so clemrly deducible from the Seriptures ath tbe Jewish writings in general that there ought to he no question ebout it. Sif Istace Nemton, in his "i Disgertation on Cubila, "has brought this out so ponolusivety as whe leque but litule olne to be desired. By flye sucesesive metbodg he also deduces the limit of its length as in ne case less than 7a.3 or more than 27.9 of our inches. The mean of all bis numbers amounth to 25.07 of our iaches, with a poasible error on the one aide or the ather of one-tacth of an iach. That the Esbrews, then, had a peouliar and maced cubir wholly eepatate from all other cubits, and that it wha the even tun miltionth pirt of the aemi-axis of the earth, wo may acoept and bold on the mathority of one of the greatest minds and one of the most thirtough and competent inventigahors of euch a matter that has illuminated cur modern times.

[^17]:    - Captain Tracy han poiated out thut the pyramid'a earthsommensurated cubit is exhibited on this lioss of the granite leaf divided into flvea, for it is just one-flith of that cubit broed, and the thicknesg of tha boss is egain jut one-且th of its width. We thus have tho earth-commensurated inch and cubit azhibited together, a va timed flye of the ona conatituting the other. Thin boar agnin is just one of thege incher aside from the centre of the block oo whicb it is, and the digtanes from ita centre to the eastern end of that block in ita groove ia just one cubit of twentyfive of these inebes. Tev, Gloper re-etamined the measures of thit botd in 1874 and saps: "I Bind il mosif firly confrmatory of the entire of the esered cuble and ita divibions, giviog the inoh elevation and the flye-inch apan with an inel baes firt the aide olope; on the boan inalf there is no indication whetefar of any Irregularity of abspa."-Caser'g "Pbilitie,' pt 40.

[^18]:    * Weaubjoin a table of unith end standarza of this aspuem the betier to ent it before the eyen and understandinge of thone disposed to investigete its elementh.
    I. Lingae Mrabuet. The grand atandard for this is the earth'e axis of rotation, the eacred cubit of Nogh, Mosen, Solemon, and the Great Pyramid, the shortat distance from the centre of the earth to either pole divided by 10 f , which in equul to 26.025 of our inches. The table would then run anfollows:

    8 berleycorns $=1$ jach or thumb-breadtb.
    25 inchea $\quad=1$ eubit, $\begin{aligned} & \text { arm-length, or pace. }\end{aligned}$
    100 cubils $=1$ acre pide.
    25 acre aide $=1$ mile, 4 milen $=1$ league.
    II. Whiokt and Caphoity Meaboge. The gread etanderd for this in the mean denaity of the earth at 6.70 times the

[^19]:    * A singular coincidenee with this bas bean poiuted out ly F A. Prochor. If we take the pyramid's cubita inataed of ita inches, and multiply the number of theae cubila in a bere side uf the pyranid hy the sumber fifty, and increase the realt in propurtion as tho bese diagonal exceada the mearure of the ide, the sum comer out in the number of yemra in the great precesnional period.

[^20]:    * Thacsistence of theselines, ne Grel reported by Prof. Smyth, has now been amply verified. Rep. F. H. A. Glowet, on his way to India, in 18is, visited the Graat Pyranid with gume fuur or fipe otbers, and subsequentiy wrota from Cairo, under Aute of Nuvember 12Lh, "One of our party buping quoted the opinion expresed hy Sir Mrimon Pycroft, 'that the atory uf these linea was all buab,' I took cara to let the party hive ocular demonstration of their existeces, and thus ege the folly of the bonorable baranat in declaring that "these lines were not there, whataver Prof Sagth or anyhody clea had said.' When 1 bad ehowed the goung geatiemen abowe nemed that the lineg were there, I suid to them, "Now you see that buwevor di囲cult th may be to distinguish tham by superfcial abseryers, the liusa are there, and I sball ask you to confers now, and at all other times, that you hape seen them." To chis hag gladly concentod; and ao thia story and this verifention of the reality of the lines will be repented us often as I sball beralled on toapenk of the matLer. "—Given in Casgy's "Philitis," Fp. 40, 4i.

[^21]:    Whose burning bresth
    Tainta the red mir with ferefa, plagues, and drath,

[^22]:    * It is aguin and again readered, to make to put, to cause to be, to order, to appoint, to ordain, to place, to set up, to eract Geseniug giver an its first and main abnse, it to get, to place, to put $t_{+}$referring to peraone or thinga ohieh stand erset." Vigablut yranilater it by popriati, placed, set up, erected, built.

[^23]:    * This in also diatinelly erpresed in the nncient Coptie vernion, tranalated by Arcbiescon Tattan. There in the girth peres the leaguage if, "Who hath laid the corner-atone nym

[^24]:    it F' If a bnee corner-stona ware in contamplation it would be in place to speak of the plucing of tho building upon it; but only a top or eummit cotner-stone can be asid to be leid "upon" the building, and no buildiug hu auch a top cornarstona but the Pyremid.

[^25]:    * The Book of Enoch, translated by Biahop Larrence, is as e
     boginaing of the reign of Eerod, before Chriat, It hes nopie ten chaptors devoted to the myeteries of atronomy, the heavenly bodies, and thair relationg and revolutions. It will at least nerva to ahow what was the feeling on the part of thoes whom the writer raprasenta wben he saya that all thegs thinga were made known to Enoeb by Uriel, the boly angal, who gave uthe whole secmunt of tham acturding to every gear of the

[^26]:    world forever, until a new work (or creation) shail be gfectad Which will be bernal," The twelpe sigos of the Zadigo are plainly indiented in thin book. Bee Book of Enooh, chap. $\mathbf{7 1}$, req. pp. 84, 85, ead 282.

[^27]:    - Life and Wort ${ }^{\text {p }}$ Pp. 187, 188.

[^28]:    * Eelfricus (1565) and Buangarten (1504) considered the Great Pytawid a tomb, but held that no one war over buried in it. Pietro Dolla Valle (1610), Theranot (l06iv), and Mmillel (1682) give it an the eromon belief that no oneqver was thamein entombed. Farsleb, (l6G4) could fad no elon by which to don termine why this pramid wes built. Sham (172I) donjea that it ever wis a tomb or ever wha intended to be onc. Jomard (1801), having studied all tho features of this edilee, and conpured them day by duy with all the facts and forms of old IEgplinn pyramids, wrote congorning it, " Evergthing is myk. terious, I repert it in the eonstruction and distribution of that monament, the paseages obligue, borizontat, sharply bant, of different dimeosions $\left.\right|^{\prime \prime}$ "We ere not al all enlightaned either opon the otigin or the emplogment, the utility or any motive whaterer for the Grabd Gultery und yarious pussages." Sir G. Wilainson ensa, "It may be doubted whether the body of the ling wha renly deposited in tbesarcophagut " ${ }^{\prime \prime}$ as he calla it.

[^29]:    And Mr. Ht. John doet not consider the Coffer a emrcophagus at all, and think the Grast Pramid naver wit and nover was meart to be a tomb.

[^30]:    * See Osburn's Mon. Fibet. of Egypt, vol. i, p. 277. Also; Bhuckford's Sac. and frof. Hurt, yol. i, p. 167. Also, Lenornisul and Chequllier'? Ame Birt of the Bat, vol. I, p. 207.

[^31]:    ＊It has bean found very diffcult to trace the origin and bighory of thim early prople．The Philiatines of the time of the Judges，and of Devid，wero a long aubsequent people，who do not 郎perir in the settlement of Israel under Joshua．They are not mentioned in any of the epseulta and conquosts of tho Jewe on their fleat arrival．Frwald considors this conclutive against their being inhabitants of Paleatine al that time．Still， in the time of Abraham，we read of Pbilibtines in Cunasл． （Gea．21：82－g4．）Abraban wish an friendly terms with them， entered into a covenant of peuce with them，and＂sojourned many day日＂with them．Thay teared and roperoneed the true God．（Gen．21：22．）Fwald agrean that their longuaje wit Shemitic．They wera an orgzized and poworful peaple．Their eorerbigns had the title of Abimelech，a Hebrew word，maning Fathor King，as the noveraigna of Egypt were all called Phra raoh，and the movereigng of Erme，Cesar．Tho Cupbior， Whence they came，Starl makes the Delus of Egypt，and the Caphtorims tome early part of the Hyker or ahepherd kinga， kopwn to Eggption biatory，Dr．Jamiason 時y，＂There is eprery remeon to belifpo tho eovareigna were condected with the shepherd kinge of Lower Eggpt，and were far buperior in civili－ zation and reflnement to the Canasaitieh tribes around them．＂ （Com，on Gen．20：2．）The Phanieisn traditione say they came from Arabia．They differed from the Bgyptians in dreas and
     lawa，and religion，ay justly inferable frow the Bible notices of them．The intent of the reference to them in Amod $9: 7$ plainly is to show that lareel wea not the only people which

[^32]:    bad been dipiobly lel from une country to sethla in another. R. A, Poole cuatiders the $\mu$ llusion sa mearing to imply oppression prior to the migration, but that is not necemarily infolved. There is do allugion to delivarance, but gimply to a bringing of them thither by apecial divine directiun. Abimelech in (terar, sod Melobisedec in Balem, would seem to be elowely related a to religion, language, and ruce. Thay were perhapa the representativer of two brancher of one and the geme prople, who came into Pelestine al one bud the ammetima, from one and the暗me place in Egypt, under one and the bame motive, cloge about the time of the complation of the Grant Pyramid. There certaioly ie ootbing to disprope thie conelusion. The name uf Abimelecb'a general-in-chief, Phicol, tbough madeup of Hebrew ayliables, ia nou a Hebrew word, but seem to bear ar Egyptian infueves in ita formation, as Pl=hahiroth, Pi-heseth, Pi-thom, It is most likely a danignation of offee, bearing tracen of noma connection with Egypt, but not of it.

[^33]:    * Wilford, in hia Atiatic Resenrahes, wol. iiij, P. 2:5, gives an extract from the Uindoo records which abems to gustain, in eome important particalara, tbia fragment of Maretho. Tbe extrect beyb, that one Tamb-valtar, a child of prayep, wise and devoul, preyed for cerlein arceerses, and that God granted his raqueste, and that be came into Egypt with a chosen company, entered it " without any declaration of war, and began to adminiater justice among the people, lo give them a apecimen of a good king." This Tamo-vatea is represented in the pceount as a king of the powerful people called the Pali، shephesds, whe in andent time governed the whola oountry from the Indus to the mouth of the thanges, and spread themealvet, mainly by colonizution end cormerce, very far through Asia, A frica, and El= ropa. They colonized the comsta of the Persian Guit and the dea-corals of Arabia, Paleatine, and Africa, and werg the longbuired people called the Berberg in North Africs. Tbey are likemisa calleal Paleatince, which arme hus elofe affuity with the Philition of Heradotu, These Pali of the Hindoe recorda erg plainly identical with some of the Joltabic peoples. Sme infra.

[^34]:    ＊＂Tho liven of mankind were no much ahortenal ere the daya of Abrabam，that though belived butone hutidrod and seventy－ \＃ve years，yel be is ehid to hape＂died inia good old age，un old man，and full of gebra．＇Peleg，whu was five generations before Abraham，lived two bundred and thirty－nine years． Reu，the son of Peleg，lived 的 many．Borug，the son of Reu， lived two bundred and thirty．But the lives of their deseend－ ants were not co long．The LXX in their tranglation gry that Job lived in all two hundred and forty or tuo hundred nind forty－aight yeure Nehor，the grandfuther of Abrutam，lired but one huoulred and forty－eight years．Terah，Abrabnan＇s father，lived two bundred and Ave，Abraham liped obe hun－ dred and seventy．five，Iseac lived one hundred and eighty，hnd the lives of their children were eborter．If，therefore，Job lived two hundred and forly or two hundred and forty－eight jeara，be mual bevo been contemporaneous with Peleg，Reu， or Borug，for men＇s lives were not extended to ao great en length after their days．Ho lived one hundrad and forty yeura after his a⿴囗十iction，and when that affiction ceme bo had soven bons nnd threa daughters，and all bia cbildren eerra to buve been grown up and settled in life from the beginoing of his misfor－ tones．＂Hie age could not therefore be lesa then two bundred years at the lemat．Seo Shuckford＇s Sac．and Profane Hishory， vol．$i_{1}$ p．288，264，who almo make Job contemporsnerous with Suphis（Cheopa）．

[^35]:    * Four constallations ere mentioned together in the Book of Job 9: 9, and 88:81, 82, and in four opposite quariers of the heapens, Kiman, the Plefades iv theconstollution Teurus; Kenil* the equinoctial nodus in Seornio, the name being perpetuated in the Chaldean Kibley or November; Maszaroth, Birius or literally Egypt's atar sign; and Jah, Aquarius, who in a manner rovenged himealf on the sons of men in the deluge. Thuse four are named in their oppositione, and so in Job's day, they correspord to the two equinoctial and the two soletitiul conatollationg. Kimah anawers to the pernal equinox, Kegil to the mutumnal, and Mamaroth cerregponds to the sumber solstice, snd Ifh to the winter aolstice. President Geguet, in bia Origin of Laves, a trepsiation of which was peblished in Edinburgh, in 1761 (the Paria od. of 1708), matee the calculation by the

[^36]:    tribes with which he would have cloag a m nitiea of blond and larguage. Hence, also, we bape no bint in the Biblical narthtive that pointa to any difference of language, such a we often have when the Jews came in contact with nations whose speech wis reslly unintelligible to them, en the Egyptieng (Paglo B1; $5,114: 1$ ). On the contrary we lind Abrabam negotating with the childrea of Heth, making a troaty with Abimelech, Jacob and his eona communiag with the people of 9 hechem, Isreal'r aple convarsing with the inhahitante of the land, and Sulomon corraponding with Hiram; without the alightest teference to the aeed of eny fnterfreter between them. Bee Wilting's Phericia asd Erad, pp. 8-10.

[^37]:    * "Thedenign of Hoses after he has completed the narrative of the dispersion of the third and fourth gencrations of the deacendente of Noah, and thus falsted the encestry of the ohief natione of the world, undoubtedly wan to continge the line of Shem to that of Abrabam only. All intereat in the other patristchal fanilise appears to heve ceased; hetsiees no notice of day but that of Joktan. Tha family of Jobten were not the enceatore of the Mesiah; nefther were any of the rons of thit patriarch oo peculiarly distinguisbed in the subsequent history of Isrecl, that the enumeration of their names only might beve boen enticipated in this genealogy. But nothing is aritlen in the Huly Seripturea without an object, and in the abance of any othre objeet for which Mosed deviated from his plan, and

[^38]:    recorded the nemes of the sone of Joktan only, terminating the list with the name of Jub-ab or Job,-I eonclude thet his design was to tell ua that the Job who was the youngest aon of Joktar was the Job who lived in the land of Ue, theugh he wat not born there, and whor enffered and was tempted as the Book of Job has recorded. The song of Jokter were enumerated that the name of Job might be placed betore the childrea of Israel as the witages to the truth of thase doctring日 which their patriarchal ancestora received, which Mosen tangbt, end whioh the Cburch of God ix all agas has believed." Dr . Townmend'a Bible, Fol i, p. 181.

[^39]:    * ${ }^{2}$ Pthnologers ate now egreed," asye Rewlinson, "that in Arabis there beve been throe diatinct phagea of colonizationAral, the Cushite eceupation, recorded in Gen, $10: 7$; seoondly, the bettlement of the Joktenites, described in verag $28-30$ of the sage chapter; and thirdly, the entrance of the Tahmaelites, Which mult bepe been nearly syachronous with the oatablighment of the $\mathrm{Jewe}_{\text {g }}$ in Palesting."-Ramlinson's Forodotus, vol, i, P. R5T.

[^40]:    - The asmes of the progenitora of these peoples, and the notices we have of them and their descondante, abuadently indionte all this.

    Ahmodad meent the measuror, and the Ohaldee persphreae of Onkelos end Joorthan atherta that be was scounted the invantor of geometry, aod the man who lined or masaured the arth wilh lines; haces, aloo agrest astronomer.

    Ot Sheltah, the anme parapbrane anys that he led forth the waters of rivers, that is, inglituted canala, and operated in water-works, perhapa the inventer of water-milla.

    Hasarmaveth gape bis neme to country which nill beara jt, and was, aceordiug to tradition, a great grammarian.

    Jerah, the fourth mon of Joklen, who is celled Lerad in the ancient Arabie recorda and traditions, in the man from whom we bave the name of Arabia, the land of Ierab. He geve hir name to a province of Tehame, in whicb hesettled, and thance it became extended to the country in general, which the native atill end the Penjosule of Ierab, en of Jokten, whom the Arabigne call Eahtan. The Jerachmas were growars of graing, miners, and refiners of gold.

    Deal peopled the great country of Yemen, "famous from all antiquity fur the happineas of its climate, ith fertility, and ricbes." Its capital, Sanad-the city of tarming-vied with Damaseus in the abundace of ite fruics, and the pleasentaen of its mater. His desoendanta were manufacturere, mercbenta, nad travelling tradars, whom Ezekiel refere to ae present in the Girs of Tyrf, with possomions of brigbt iron, carlia, and nalamua.

[^41]:    * "Sham appeare in his own annaly as one who had len his ustive [origiapl] land, end in the course of agea migrated west end nouth from the primitive common eest of the civilized atock of Central Agia, with en unceasing Lendency towerda
    
    † This would give ua \& moat remarkable and unhroken succemalon or line of awod propheth from the foundation of the world-Adum, Geth, Enoch, Noah, Bhem, Job, Abraham and the chonen people, termingheg in Josus Ohrist and his Cbureb, wich abides to the end of this present world.

[^42]:    * Dr. Lee rendera chap. 2日; 7, "When I went forth from the gato to the pulpit and prepared my cent in the broad place" Herder transiatas the anme,
    "When from my house I went to the asembly, And apread my carpet in the place of meetig."

    In verses 21-28, there In a furtber allusion to hir addresea to the people, and the fereranoe and sageraen with which they lietened to him.

    Tbe account of the coarening of "the pons of God," given in the tret cbapter, implies the exisbance of asambilies for worthip in thoee timen, and the giving forth of ingtruotion on those occesions.

[^43]:    * The epirit of the pagaga admirably interpreta in thia seate. The object is to conviace Job of his incompstency to judge of nal understand God, and the mddrean ruag en it the Almighty intended to eny to him, "You laid the foundetions of the great suructure in Egypt, but where were you when I laid the foundations of the far greater pyramid of the earth? You ligid the mbenures on the pyramid in Egypt, but who laid the mensuret of the earth, and atreluhed the line upon it? Fou fastened down in sockete the foundations of the pyramid in Egyph, hut whereapon are the foundatione of the earth fastened ? Fou laid the pyrsmid's completiog capstone amid songe eud jubilations, but Fho laid the capstoge of the earth when the celeatial morzing mars sang together, and all the heqavenly aons of God abouked for joy ${ }^{\prime \prime \prime}$ The imege it unquestionably that of the pyramid, and the apperl is best interprated and tenfold intensifled on the bypotheain that it was the builder of thet pyramid who in thes addresed. Tbis would alm give adoquale rebson for the deperturo from tho iden of the earib's nature and pooition given fa anouther pert of the book, to telte up the image of a pyramidal ediflea in thit grand pesage.

[^44]:    ＊From Luke $1: 89,70$ ，and Acts 8 ： 21 ，we learn that thers were secred prophels，inepired of God，from the earliest begin－ ning of haman hiatory．Who were they？Admim，Both， Enoch，Noah，and Shem were most eminent among the prime－ Fal worthime，and mote blebed and honored of God of all the ancienta；those would then be the greatest eacred Leachera，and the men most flted to hand down accounts of the thinge they as⿱一⿻口⿰丨丨女刂灬 and had learned of the Lord．The indicetiona also are that they did aeverally record and tranemit what thay kogw end beld as eacrad，and thet Moses in making up the Book of Geoesia incorporated these asered beirlooma into his recorda， Wonving them into one natrative，condensing，adding to，but carefully preasring the ancieat lexte which he employet． Hence the name of the art called Mosace work．Nor would it feem imposaible，eved at thia late dey，to point out what parta of the boly records have come from each．

    I．If we take Genceis 2 ：4，on to the end of the third chapler as the Book of tha Prophes Adam；it at once pegumes e life nand vividneas which it does not otherwise pesson，It titta and conlents bhow thet it is a monograph．Its close Fould mem $\boldsymbol{\omega}$

[^45]:    * Among the published notices of Sir James Y. Simpaon'a efforts against the Pytamid preacaletions, we lad the following erprearions:
    "Sir Jamea does not beem to have proved a single objection Lo the priated theory, yod bis whole athank abowa anything luta a ecientilo ppirit. It is a pity that he nhauld waste big time in trying to dieprota e subject which is not at all in bis sphere, and shout which he shows himeelfso ill-informed, heving neil her had time nor opportunity thoroughly to examine the grounds and foundetion of the Pryemid and ite leachinge."

[^46]:    * One of theqe journale, however, gives a further apecimen of ith wit in disposing of this case, by propounding o menare teat of the brain-calibre of the Lecturer. The delectable mortel iq in thene words:
    ${ }^{4}$ The eilze of the aquor'i intellect may be inferred from bil

[^47]:    sfter gencrations, requiring translation into other tems to be understood. Epan the neeesary little ohange from old etyle to new etyla in tha calender etill emberrasses betimee, though mada so long ago. This change of mutres would naccaserily tourh ell our charts, survere, land recorde, digpeneatorieg, preecription booke, and formulas of arta and manufachorios, entailing upen the peoplo expendituras, losese, and inconveniences boyond estimale for generations together, for which nothing but this cumbrous rtheistic fracy ie given in return. The AngloSoron worid should besitate leng befiro plunging iteelf inta auch $n$ turbulent sen of revolution and fully.

    If this evidences a defleiency of brain-size wa are willing that those whe think so stould make the most of it

[^48]:    the epere of eome three dozen yrara on eprith. (4, If aucb a thing lud beer, it is unuccuuntrille that woehould bave po more record of it than prpears in the brief references to Melchisedec.

[^49]:    * Thus, if we tuke the leng th of the Eing'a Chamber, d12.19y inches, and let it express the diameter of a circle, then compute the ares of that circle, and throw that ares into a equare, it will give the exact gize of tho Pyramid'a base, and just an many Pyramid cubila to each side ha hiere are dasa in a year.
    $\Delta$ gain, take the same length as the zide of a equare, find its area, throw it into e circular shapa, and the radius of that circle will give tbe pumher of oubila in the Pyratenid's vertieal heighl.
    Again, take the circuit of the north or south wall of the Eing's Chamber in the ealirety of the granite, divide it by that ehamber's tengtb, and the rasult is t.
    Thua, by substituting areas for circumfarencen, that oblong, rectungular room, through the oporationa of $\#$, answers inteljectunlly to the aquare-based and five-pointed exterior memoriatization of the amers proportion. And in the Antechamber, between the Grand Gallery and the King's Chamber, the same UEa and reference to the $\pi$ proportion is to be traced.

    Thus the eabt wainecoating of the Antechamber ia cut down to the extent of hale the width of the King'a Charnber, equal to the kength of the granite in the Antecinember floer, and to the length of the side of a equare whoss aras is equal to that of a cifele drawn with the whole length (granite and limestone) of the floor for a radius.

[^50]:    W Some have thought that I nede a great blunder when 1 anid ( $p$ page 70), that "the Grant Pyramid stands on the line which equelly divideg the surfece of the northern hamisphera.' A man higb in place, and all his lift haring practicelly to do Fith science, wrote me: "it is a mistaice ag grasp thet I think it must be either a mispriat, of a atip of the pen." He said "the paragtaph evidently gheuld read, that the Pyramid is built on the latitude whith marks the third distance from the equator to the pole, as the balf diatance is about forty-四pe degrees, masly one thousand miles from the Pryamid at the negrest point"' I replied that I bed not apolen of a meridien of diatance from the equator to the pole, but of "the surface of the northern homiphere"-the whole surface of the earth porth of the equastor . I alfo submitled to him, and other randy mathematicians, the folluwing prohlem: What parallel of latibude equally ditidet the outire earth resfoce (land ard watry) bying betweon the equator and the poltef requegting its solution by the best scientide procesges, and to give me word of the result, if it did not tally with my statement. I had not thoroughly worked out the problem myealf; but es the linge of longitude afl terminate in a point at the pole, and the ourth iteelf is very coasiderably dat-

[^51]:    tened in its polar diameter, I concluded, on a rough entimate, that about the thirtieth degrea from the equator would give the line sought. More than five montbs have peseed eineg I bubmitled the problem for thorough mathematical nolution, bat no reply har yet mome to indicsta any error in my statement.

    It may ale be worth while wote bere that Comonodore Whiting is of opinion that the fect that the Greas Pyramid is nituated a little below the thirtieth degree of north letitude, is perhap meant to refer to the ellipticity of the emrth, and to marle juth onethicd of the line of ith meridian from the equator to the pole. Fior thoge who wiah to work on this alggestion I give the reaulte of observationa upon the exact latitude of the Great Pyremid vit. :

[^52]:    * Where did the Egyptiana, at that early day, get the immense quantity of iton required for all the tools thut mast neveds hape been used in erecting quch an edifice of cut racke, oceupying 100,000 men for thirty jears, eneing that there is auarcely eny workuble jron ore from ono end of the Nile to the other 7

    St. Joba Yincent Day, in a paper read before the Philosophical Suciety of Glagow, in April, 1877, has given anewor to

[^53]:    REV. JOSEPH TAYLOR GOODSIF, F.H.S.E.
    ${ }^{14}$ I believe that several important things fully prarrant us in maidtaining that there was, Fhen the Great Pyramid Fas builded, and that there ia now, a very suffcient fonl ceuse for the rearing of suelu a scientific symbol as it has the best claim to be considered. The urgency of this final cruse rany be seen to have been great at frst, because in spite of all that had ocrurred at Dabel, the two chief nations of earliest antiquity, Chaldea and Eigypt, had determinedly adopled sabaisra fa their worship, either by itself or mired with other suporstitions ; and secondly, it is great in these times when a lamentable oumber doubt or ayowedly disbelieve, and eyen laugh nt, that Biblical record to which the world owes its prepent freedom from sabsiam and innumerahle other evila, and when many would insk un to lake Lueretius as our Bible, and a Lucretius, too, expurgated even of the pargan's allusion to in remote region in which he allowed there might be gods, but gods who cared not for mea or his atiairs.
    "At the egrier of the two periods referred to, the Great Pyramid, posseasing the character proven to belong to it, \{ 191

