

The Spherical Bacteria Cell

THE CONSTRUCTOR OF THE EARTH AND HER LIFE

**Through the Radioactive Construction of Electro-Magnetic
Particles**

By CLARA E. SPEIGHT-HUMBERSTONE

Newton Brook, Ontario, Canada

**Entered according to Act of Parliament of Canada, in the year
One Thousand Nine Hundred and Six, by Clara E. Speight-
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PREFACE

Recognizing the weakness of the position of "the unknown," we send forth on their mission the contents of the following pages with great humility, yet with a hope that the new discoveries of the electromagnetic construction of matter which makes all previous theories about the construction of the universe incorrect, may afford the possibility of a key to the correct interpretation of its construction, through the investigation along the line of radioactive, electro magnetic cell construction.

We fear we have insufficiently explained many of our statements, but extreme brevity was a necessity.

A more lengthy explanation will be given the subject just as quickly as we can arrange the voluminous matter already at hand in substantiation of all that we claim in the following pages.

CLARA E. SPEIGHT-HUMBERSTONE.

Newton Brook, Ontario, Canada.

THE BACTERIA CELL

The Constructor of the Earth and all Forms of Life that Dwell Thereon

The possession of a key to the solution of the mystery that surrounds the origin of life in the earth has been made possible by the discovery of the radioactive properties of matter, which is now declared to be a "conditioned form" of electricity.

We quote: "The latest discovery by the twentieth century scientists prove man to be a mass of electricity.

Scientists further declare this electrical stuff is in turn made out of the all pervading ether of space. In fact, ether is what might be called dilute, gaseous electricity. The condensation of this ether represents the construction of the earth, and if of the earth, of the whole universe. We quote: . . . "The atom has recently been discovered to be a miniature solar system, with a central ion or sun, around which revolve the electrons, corresponding to the planets.

Yet this marvellous little atom is but one-twenty-five-millionth of an inch in diameter and has associated with it a certain definite amount of electricity called an ionic charge, varying according to the weight of different kinds of atoms. The way that an atom is charged is by having little specks of electricity, called electrons, revolving around the atom's centre, like the earth around the sun. The positive and the negative electricity of an atom is what causes the rotation, and maintains the equilibrium of the atom.

The hydrogen atom, which is the smallest atom known, is estimated to be composed of 790 electrons, 350 positive and 350 negative, interlocked in a state of violent motion, so as to assume a distinct form.

Sixteen times as many in another grouping constitute an atom of oxygen; 14 of them go to form an atom of nitrogen; 12 of them an atom of carbon; 16,000 an atom of sodium; 100,000 of them an atom of gold; 160,000 of them an atom of radium. All the elements are thus regarded as different groupings of one stable constituent. This when established will be a unification of matter, such as through all the ages has been sought.

This in brief is the new theory of the electrical construction of the earth and the universe.

One result of it is that if all atoms are in a state of vibration they must lose energy and break up eventually, and all matter be resolved again into the primeval ether.

In the light of this new discovery all previous theories of science about the construction of matter and of the universe are found to be incorrect.'

Because of this wrong conception of the construction of matter the origin of life in the earth has remained a mystery to men of this age. If matter was created by motion in the condensation of the "gaseous electricity," or ether, and the first balanced creation that of the atom, then every created particle must be governed by the same laws of balance, or equilibrium, as we find established in the construction of the atom, or the different kinds of atoms.

Because of the incorrect conception of the construction of matter the construction known as Bacteria has been little understood by the investigator.

Bacteria live and multiply by the absorption of the hydrogen and the oxygen atoms that contain a definite number of positive and negative electrons, equally balanced. Bacteria must, as individual cells, also find an equilibrium in their construction through the same laws that govern the establishment of the equilibrium of the atom, and the positive and negative electricity of an atom is what causes the rotation and maintains the equilibrium of the atom.

The bacteriologist has been forced to describe the Spherical Bacteria as "Vibrios," yet declares them to be non-motile.

If all atoms are in a state of vibration they must produce that form of motion in a balanced, spherical construction.

Condensation is the result of expended energy; Bacteria deposits a sediment by the activity within the cell.

The Bacteria cell is said to be the one twenty-five-thousandth of an inch in diameter. There is therefore room for just 1000 atoms in the spherical Bacteria cell. The attraction of Spheres together in squares and cubes is one of the laws that govern the multiplication and development of the Micrococci or Spheres. The square and the cube of 10 is evident throughout nature's phenomena.

The atom possesses a central ion or sun, around which revolve the electrons.

The chemical products generated by Bacteria cells are the results of the activity within the central part of the cell. The electrons which form the atoms are combining to form the chemicals found in the construction of protoplasm.

Bacteria are divided into two classes, the liquefying and non-liquefying cells. Bacteria multiply and construct protoplasm from double-distilled water, and protoplasm contains sodium, calcium, magnesium in combination with sulphur and phosphorus. We have not far to search for the origin of chemicals in the living construction, called "sea water."

The condensation of the dilute, gaseous electricity, in a stable condi-

tion or in an equilibrium, with the rest of the solar system, must have "fixed" the earth in electro magnetism, as a globe of water. The equilibrium thus established, as radiic active electro magnetic, can never have lost any of its value, in weight, in relation to the other parts of the solar system. The solids of the earth must have been produced through the condensation of the water by the radio active exchange of emanations from the different magnetic points throughout the solar system. If the atom is a solar system it was constructed by the same laws that constructed the solar system.

Bacteria cells must represent a construction wherein the positive and the negative parts are equally divided on the same basis as we find established in the hydrogen atom. This would make that cell the constructor of the earth and of all forms of life on the earth, as a medium for the condensation of the "dilute gaseous electricity," through the attraction and repulsion generated by the electrons in their magnetic construction. Bacteria to-day construct protoplasm from distilled water, and deposits sediment that chrystalizes in various forms.

The igneous rocks required not the heat of fire to fix their chrystalline form, magnetic attraction as condensation was all sufficient.

There is no longer any mystery in the decomposition of the rocks into the fertile loom on the surface of the earth; the magnetic properties in matter are following the law of decomposition into primeval ether. The treatment of seeds with Bacteria in order to increase production is no longer mysterious.

The first form of animal life in the earth was of a colonial form, and the form of the colonies is identical with that of the bacteria colony. Bacteria cell multiplication and development established an equilibrium in the construction of sea water, and sea water is a living organization, and aided the Bacteria Cell to assume a more condensed mantle of protoplasm, and to ascend in the scale of life as the "animal cell."

Bacteriologists declare Bacteria to be composed of nuclear matter, and therefore the nucleus of the earth provides an equal balance in its positive and negative parts, and sea water is liquid nuclear matter. Is it not then a living organization?

Is not the earth a living organization? Do we now understand why there is nothing solid, and that the atom floats, as it were, in liquid ether? Are not the emanations from the earth, the water and the life thereof generating gaseous electricity that makes the atmosphere a living organization? Are the planets not living organizations? Is there such a thing possible as a dead planet, the present conception of the construction of the moon?

The presence of Bacteria in the animal construction, as a necessity, is now explained. As a balance of life and death in the earth bacteria may now be controlled by man.

Bacteria are found in definite proportions in the earth, in water, and in the atmosphere, and these proportions bear a definite relation to the

grouping of atoms as C.H.N.O. in created particles.

The atmosphere is composed of 5 constituents: Oxygen, nitrogen, carbonic-acid-gas, ammonia-gas, and watery vapour. It is described as viscid, and elastic, and it is the description of protoplasm as dilute, gaseous electricity.

As every particle of matter must contain the positive or the negative part of the H. atom, that part must be the magnet that holds together the whole construction of the universe. Is it not then the equilibrium of the "dilute gaseous electricity" in the construction of man that determines his length of life on the earth through the continual circulation of the H. atom?

We quote the following: "Wandering unconcernedly in the field of view of any high power microscope, there may be seen an animal which has probably been living continually, ever since life appeared on the earth, and which has certainly never lost an ancestor by death. The creature is transparent and resembles a drop of slightly more viscid fluid in the thin film of water, in which it is confined. Amoeba is the name by which it is known to science.

Its form is continually changing until it resembles the fingers of an outstretched hand, of which the palm is rapidly shrinking. The whole creature is floating toward a small chain of bacteria, which presently it devours. There is no mouth through which they pass; they are simply engulfed, as small drops of water may be merged into larger. The Amoeba multiplies by splitting up into two new creatures. What has become of the original Amoeba? It must be said it is still living as the two new Amoeba. This splitting into two, being the only mode of reproduction of the race, it follows that all the previous parent Amoeba from which our present two are descended are still living.

Of course thousands of these animalculae are destroyed every day by natural foes, but it must be remembered that these unfortunates cannot by the nature of things leave any children, and so will ever be ancestors, and that so long as any one Amoeba is living none of his direct ancestry is dead. The conclusion has forced itself upon biologists that death is no part of the life scheme of these creatures."

The principle of the everlasting circulation of the balanced cell as a living thing is proven in the construction of the Amoeba.

The attraction of the Amoeba by the bacteria was through the magnetic properties of the electrons, and we know that cells take their food through chemical attraction. The construction of the chemical in bacteria must have been determined before the construction of the Amoeba. Was it not the bacteria, as food, that caused the equal division of the Amoeba?

Bacteria divide and multiply in the same manner as does the Amoeba, so that the Bacteria Cell cannot know death.

All forms of matter have been found to be giving out radio active emanations, because the established equilibrium of the cell compels matter

to give out the same value in gaseous emanations that it takes in as an atmosphere. Supply this radio active demand, and man cannot suffer contraction in the circulation of cell division.

We are impressed with the thought that a cure for consumption, yea, of all diseases, and even the "elixir of life," is already in man's possession, but owing to his imperfect comprehension of that which supports life, he has failed to recognize its value.

Prof. Burke of Cambridge University has succeeded in producing living cells by the introduction of radium into culture media prepared after the formula of bacteria culture media: The diameter of the cells is said to be the one sixty-one-thousandth of an inch. This diameter shows an equal condensation of the construction of the atmosphere and of the contents of the nucleus of the animal cell as the squares of 5 and 6 multiplied by the 1000 atoms that possess the same dimension as the Spherical Bacteria cell.

The redistribution of electro magnetic particles in the human construction on a radio active balance must restore to man his first perfect construction. Prof. Burke has succeeded in raising "the dead" to a living construction, because he had in the culture media parts of the once living animal form, and the radio active element, salt. Radium could not therefore have been the origin of life in the earth.

THE SO-CALLED INVOLUTION FORMS.

In the "involution forms," found in bacteria cultures, we have still greater proof of the government of the bacteria cell, in the construction of the animal cell. That bacteria generates chemicals which react on the cells, and cause them to group in larger numbers, and so bring forth a higher form of life is shown by the shape of the "involution forms." These take the shape of certain species of the Foraminifera, and the Foraminifera construct their shells on the same basis of increase in number of segments as characterize the division of the Micrococci. Bacteria are divided into 3 groups, as Spheres, Rods, and Spirals; but two Spheres make a Rod, and 3 Spheres make a Spiral, so that we find Bacteria cells in groups of 1, 2, and 3. That assures a radio active construction, and we find that Bacteria are divided into 4 classes because of their absorption of the hydrogen and the oxygen atoms.

Here we find the establishment of the equilibrium of the construction that was destined to live always in the waters; the construction that was to be able to live either in the water or part of the time on the land; the construction that was to live always on the land; and the construction that could live part of the time on land and part of the time in the water. These constructions we find evidenced in the 4 classes as Obligative Anaerobes, Facultative Anaerobes, Obligative Aerobes, and Facultative Aerobes.

The fermentation bacteria produced the heat necessary for the establishment of a temperature in the waters.

The Photogenic or light producing phosphorescing bacteria generated that form of light that was first, or before there was a sun.

If the nucleus of the earth was composed of nuclear matter the emanations as electro magnetic should evidence the same curves in the construction of the magnetic poles of the earth as we find outlined in that construction which holds the balance of the animal form, the skull.

Bacteria possess a definite proportion of brain substance, because the outlines of the colonies of some species possess the same curve as the lines of curve in the human skull.

Proctor, in one of his works on astronomy, illustrates the magnetic poles of the earth and lines of equal dip, and in the inner lines of the northern magnetic meridian we obtain a half circular figure that fits exactly over the form of the human skull as represented by Camper's method in examination of the human skull as indication of intellectual development.

The same curve fits over a specimen of "Ezoon Canadense," as a group of cells that formed a construction in rock form, and we find the cells in this group taking on the shape of the human head, before there were any animals.

This specimen of rock, given by Sir Wm. Dawson in one of his works, shows the faces of both male and female in apposed form, and we find in the construction of the brain the highest combination of the electro magnetic division represented in the so-called biscuit-shaped bacteria cell.

Again, the Foraminifera of certain species possess the power of Amorphism, and we find a parent bringing forth an unlike species. There are two forms called the micro pheric and the megalospheric. The proportion in one species is as 1 to 34. This is the proportion between the weight of the brain of woman and the weight of her body. The average weight is given as 44 oz., and 34 times 44 oz. equals 93 1/2 lbs., the average weight of woman, irrespective of age. In another species the proportion is as 1 to 8, and that is the proportion between the weight of the cerebellum and the cerebrum. If we take 100 as the estimated value of the H. atom as its greatest equally balanced radio active value and divide by radio active number 3 we obtain 33 1/3 for each, and we find that a proportion of 1 to 33 1/3 governs the construction of the brain of the male, in its proportion in weight, to that of the body. The average weight of that brain is given as 49 1/2 oz., and 33 1/3 times 49 1/2 affords 193 1/8 lbs. Dr. Draper gives 103 3/4 lbs. as the average weight of man's body, irrespective of age. In such exactness of measurement we find proof of the "fixed value" implanted in the established equilibrium of radio active, electro magnetic particles.

We claim the different kinds of atoms established their equilibrium as a condensation of the dilute, gaseous electricity, in the construction of the spherical bacteria cell as a constructor of protoplasm, through chemical attraction. Bacteria in their activity generate gases and deposit solids so that the earth in its weight is balanced by the gaseous emanation from its constructions. Because of this equal balance bacteria are neither animal nor vegetable, yet in their condensation of liquids to solids pro-

vided a media for the magnetic fixture of cell multiplication that resulted in vegetable growths.

By the decomposition of solids to liquids sea water was conditioned with chemicals that made it a living thing, and take part in the phenomena of attraction and repulsion that made the "animal cell" a balanced construction. The different forms of life represent the result of the electro magnetic combination of the different proportions of dilute, gaseous electricity in condensation; this assures a continual circulation of the different weighs, etc., so that the establishment of a balance is maintained throughout the solar system.

THE VALUE OF THE ATOMS OF C. O. N.

The number of electrons contained in these 3 balanced constructions total 28400 as a collection that should represent the whole equally balanced value of the H. atom throughout the solar system, in its construction of life in the earth. This we find to be radio active in its positive and negative value, because man as its highest form of construction, affords 42 different types. If we divide 28400 electrons equally into a positive, neutral, and negative balance we obtain 9800 electrons for each; these equally divided into two parts afford 4900 or 7 H. atoms in value for each of the 6 divisions. The 42 different types of mankind are grouped in 5 different divisions, one division containing 18 types and each of the other 4 containing 6 types.

If we assume that each electron possesses a radio active individual value and multiply the 350 positive electrons by the 350 negative electrons we obtain 122500 electrons that should represent the whole value of the equal distribution of electrons in the construction of a gaseous body such as the atmosphere. If we divide 122500 by 25 as a number representing the construction of the atmosphere we obtain 4900 electrons, or the equal value of 7 H. atoms, and we understand why the rainbow represents the equal distribution of colors, and why it was a token of an equal balance of moisture in the earth.

This balance of the H. atom makes the positive division of the electrons a nucleus for the construction of the earth and her life; the negative electrons the nucleus for the construction of the atmosphere; therefore the negative construction of the atmosphere makes active all forms of life on the earth, and this by the displacement of gaseous matter as a chemical solution through the action of the ciliary construction of the living form. The ciliary construction originated in the bacteria cell and so, from the atomic value of the electrons contained therein.

THE CONSTRUCTION OF ALBUMEN.

The protein bodies, of which albumen, casein, fibrin, and globulin are the most important, are represented by the chemical formula $C_{48}H_{36}O_{14}N_6$; the value of the whole is 6440,000 electrons or equal to 920 H. atoms as a nucleus for the construction of the 4 different classes of animal life in relation to their absorption of oxygen and hydrogen. An equal division for each of the 4 classes would afford 230 atoms in expansion or 23

in contraction as the animal cell shows that proportion, in relation to the bacteria cell. Albumen in either animal or vegetable construction is essentially the same and so we find again the evidence of bacteria government in the forms of life in the earth.

Again, in the nucleus of the animal cell is found free iron. The complicated spectrum of iron shows 460 lines, ranging from red to blue. An equal division for the positive and the negative parts would give 230, the exact number of the H. atom as a nucleus for the different kinds of animals, further establishing the proof of all animals from one first cell. From this evidence we would assume that a definite proportion of iron is implanted in each electro magnetic particle, and so the magnet of attraction between cell union.

The number 23 is one of the most used by naturalists in the classification of animal constructions. Sedgwick, in his "Handbook of Zoology," which treats of the animal species from Protozoa to Chaetognatha, gives 686 families as the number of the different forms which he classifies under 15 heads. Fifteen represents the positive, neutral, and negative in 5 balanced constructions the value of the construction of the atmosphere, and so radio active. Six hundred and eighty-six provides 98 as an equal distribution of the H. atom into 7 parts; an equal division into a positive and negative affords 49 or again the square of 7, thus proving the same values we obtained for the construction of animals in the atoms, C, N, O, and also the value of the H. atom in the construction of the atmosphere. If we add to 686 the 4 families given by Haeckel of the deep sea Ceratosa, we obtain the number 690 as a radio active provision of the 230H. atoms in the construction of albumen for each class of the 4 divisions, and we have them all represented in Sedgwick's work.

If these animals are the result of the condensation of water through the exchange of radio active electrons throughout the solar system, water should evidence in its construction a radio active combination in harmony with the animal construction.

Water, as H_2O contains 12000 electrons; the radio active equality is provided for by 4200 electrons, or the value of 6 H. atoms, a number that characterizes the different types of mankind as 42, and 6 as the value of the combinations within the nucleus of the animal cell.

The number 23 we find to be radio active in the combinations with the 4 gases; the numbers evidenced here are 5, 5, 6, 7, and the square of each total 135; this divided by 5 gives 27 or the cube of 3.

Jordan, in his classification of the vertebrates of the Northern United States (a magnetic centre), gives as the whole number of families, 886; the heads of these species is given as 443 and these again are classed under 122 heads. The first number is just twice that of the second; if we divided the number 122 into an equal positive and negative value we obtain 61 as the represent of 5 different forms of animal life, in mammals, birds, fishes, reptiles, and Batrachia. These represent the condensation of the 5 constituents of the atmosphere into two electro magnetic divisions

as that of the atmosphere and the 6 divisions of the animal cell as a constructor of life. The squares of 5 and of 6 total 61 and so represent a continual circulation of cell construction that may be maintained in any one of the forms by the maintenance of the radio active balance.

In order to prove the value of the H. atom as a constructor through the atmosphere, by definite measure, we give the manner of increase of the order Reptilia, as given by Jordan. As the result of magnetic conditions in the centre or part of the earth that govern their distribution, we find the reptiles divided into 3 orders; the third order contains 3 families; the second order 4 families; the first order contains 5 families. Order 1 with 5 families bring forth 14 sub-families, and these 14 contain 25 members.

Order 2 with 4 families divide in the increase into 6 sub-families; these 6 are again the representatives of 8 members.

Order 3 contains 3 families, and these break up into 22 sub-families, which contain 44 members. The whole number of members totalling 77 or 7 times the value of the constituents of the atmosphere and the contents of the animal cell nucleus. The origin of the reptiles may be found in the "giant-whips" which the bacteriologist has thought to be "torn off flagella." Do they not represent the condensation of electro magnetic charges as the result of repulsion and attraction of chemicals in the cell combination? One species of giant-whip measured 132 cell lengths, or 12 times 11, which plainly shows a radio active combination in one construction.

The value of the number 11 as a combination of the constituents of the atmosphere and of those of the nucleus in the animal cell, we find evidenced in many of nature's phenomena.

It has been shown that all matter is engaged in giving off radium emanations, and radium is composed of 3 different kinds of particles, positive, neutral, and negative in their electro magnetic constitution.

The atmosphere is therefore generating, through cell activity, radium emanations which must travel throughout the solar system in their combination with other electro magnetic particles as an absorber of the products of decomposition. Helium is said to provide one of the atmospheres that surrounds the sun, and Prof. Ramsey saw radium emanations turn into helium. The same combinations that govern the H. atom in the construction of the earth appears to govern the construction of the sun.

Solar outbreaks are rhythmical, and the number of spots waxes and wanes in about 11 years. The average length of man's life is 33 years, or 3 times 11. Dr. Lowig, in his work on Physiological Chemistry, states: "The radicals of the groups of acids, to which acetic acid, butyric (bacteria products) propionic acid, etc., belong, divide into the active part C_2H , and the components $C_2H_2NO_4$."

$C_2H_2NO_4$ are equal in value to 104 H. atoms. The active part C_2H is equal to 25 H. atoms, and this 25 provides for the condensation of the atmosphere into chemical products.

We find therefore that 104 affords 52 as a negative and a positive value in the construction of chemicals that bring about the 52 weeks or 7 days as the division of the moon's growth.

This 104 is again seen in the number of combinations that bring forth the 104 families that we find the Protozoa contain, as classified by Sedgwick. It was cell multiplication that created the earth and established her equilibrium in her atmosphere so that the animal forms must contain the same chemical value as we find in chemical formulae.

If the Protozoa afford evidence of 104 combinations in a construction, with only one nucleus, we should find the same value evidenced in the animal construction that contains more than one nucleus. This we also find in the number of families given by Sedgwick in his classification of the Annelida and the other 6 divisions which represents the neutral value of the 7 divisions of the H. atom as a whole circulation in combinations that require a year's time to perfect; that is the reason we find it necessary to define time. The value of albumen in its chemical construction is equal to 23 H. atoms, and if we multiply that number by $2\frac{3}{7}$ as representing its increase as an animal generator of gases, we obtain 52 and a fraction as the value of the H. atom in its circulation.

To show that animal construction has been governed by the construction of chemicals in the balance of the earth by her atmosphere, in harmony with the construction of the solar system, we may give the evidence of the value of the number 11 in the construction of animal forms. The classification of the different forms by Sedgwick of the whole distribution of those treated by him, and the vertebrates of one magnetic centre as the Northern U. S. by Jordan, afford the following evidence: The Porifera are divided into 55 families; the Protozoa are divided into 11 divisions under the 4 sub-orders; the Coelenterata into 165 families, or 5 times 33; the Polyzoa are divided into 44 families; the whole 15 phyla is sub-divided into 6 divisions containing 132 different groupings in describing the different families, or 12 times 11. The largest giant-whip in bacteria cultures known is given as 132 microns (a cell's diameter.) Jordan divides the reptiles into 77 families; one order contains 22 sub-families with 44 members: the squares of the numbers used to describe the Batrachia equals 33; the order Passeres of birds contains 165 families, the same number that represents the Coelenterata; of the other kinds of birds there are 88 sub-families; the number of families in the construction of the "bony fishes" is 308 or 7 times 44; the duck species number 22 families.

If animal constructions provide the atmosphere with gaseous emanations for its construction, that construction must be subjected to the same laws of magnetism that govern the animal construction. It has lately been demonstrated that chemical action magnetises the muscular system and causes sleep. Does the same chemical magnetism cause the atmosphere to become a neutral or equally balanced construction and therefore inactive because of its repulsion of the sun's rays?

Eclipses also evidence the radio active law of the neutral government

of chemical attraction. Records show that there is a law governing the recurrence of eclipses based on the fact that the sun and moon return to almost the same positions after a period of about 18 years. The value of the 6 divisions of the animal cell, which contains a large proportion of phosphorus in its molecule, can be traced in its construction as a positive, neutral, and negative value as a factor in the phenomena of eclipses.

The clouds are divided into 3 kinds and these might be likened to the form of the Spheres, Rods and Spirals of bacteria creations from motions within the cell.

Color is divided into 3 primary divisions.

The astronomer classifies the stars into different magnitudes, according to their relative degrees of brightness, and in description states "each class is, roughly speaking, about 3 times as numerous as that which precedes it." The rock formations are divided into 3 periods of time, as Palaeozoic, Mesozoic, and Neozoic.

The earth, because of its zoo-geographical distribution, is divided into 3 regions.

THE VALUE OF THE NUMBER 20.

A table showing the range in time of the more important groups of animals divides the Palaeozoic period into 7 divisions, the Mesozoic period into 6 parts, and the Cainozoic period into 5 parts. We have here the value of the H. atom in 7 whole divisions, as evidenced in the distribution of the colors of the rainbow, etc., the construction of the animal cell and the construction of the atmosphere, and therefore an indivisible whole that forms a continual circulation of electro magnetic particles. This circulation is evidenced in the number 20. We obtain this number by the radio active division of the constituents of the atmosphere into 15 parts, as 3 times 5; the positive and negative expansion of the H. atom into 2 equal parts, as 14. These two numbers as a combination determines the everlasting circulation of the magnetic distribution of electrons.

In the table above mentioned the 3 periods of time are divided into 20 divisions by the different forms of animal life. It is divided into 9 sections. The whole number of divisions, wherein the different forms appear, total 387; this divided by 9 as a radio active division gives 43 as an equal distribution of the value of albumen and its active element, 23 plus 20; 20 as the 5 times 4 combinations of the C.O.H.N. atoms.

Jordan divides the whole family of the vertebrates in the Northern U. S. into 116 families, or 4 times 20.

Sedgwick describes an animal (one of the Annelida's) as being a sexless form, bringing forth in reproduction 20 zooids, which remain attached to the parent until the oldest zooid has reached a certain stage of development. The construction of the animal cannot be explained, but if it holds in its cell combinations this value we find in the number 20. The young could not become separated from the whole circulation until it generated the chemical in its own cell combination that reacted on the next form as a medium of repulsion. The Coelenterata contains 20 different family

groups in its phylum, and if we study the shapes of the different forms, we find many of them suggest the future constructions that make up the human body. If it was chemical products that governed the construction of forms, the ciliary construction governed the construction of the sympathetic system through the electro magnetic influence of vibrations. The sympathetic system is composed of 29 nervous ganglia. There have been found just 29 different elements in the composition of the human body. The Mollusca, which evidence a neutral construction, contains one order with 29 families, and the 4th class contains 116 families, the same number as we find evidenced in the whole family of the vertebrates of one magnetic centre. The Mollusca, in some species, show in the shape of the construction of their nervous system the same curves as we find given by Proctor in his illustration of the magnetic poles of the earth.

As we have traced a connection between the magnetic construction of the animal cell and the phenomena of eclipses, we can also trace a connection between the value of the number 29 and the grouping of the stars. We quote the following from a lecture by J. A. Formoy, F. R. A. S., delivered before the English Camera Club in 1905 and reported in the Scientific American: "In order to assist in tracing the earliest defined stage in the development of stars from nebulae, the lecturer showed a photograph of the Pleiades, in which group there were but 7 stars visible to the naked eye. The photograph, taken with a very long exposure on different nights, revealed 1421 countable stars; another with a longer exposure still, showed that nebulae surrounded the principal of these orbs. The long exposure impressed them on the plate, and these stars had been as it were 'caught in the act' of condensing." 1421 affords a radio active combination that again establishes the value of the H. atom in the circulation of the electrons that compose the number 29.

1421 equals the square of 7, or 49 times 29. The first evidence of the law that caused Spherical cells to group in squares, we find implanted in the bacteria cell, and, therefore, we claim that cell as the established "equilibrium" of the circulation of electrons as a construction of chemical attraction that determined the development and construction of the earth and her life in harmony through exchange of electrons as condensed gaseous electricity, with the emanations from magnetic points throughout the solar system.

THE STORY OF THE GREAT PYRAMID.

That which makes man a genius to-day constituted him an "intelligent" creature in his first creation.

Natural talent directs man in his inventions, makes of him a musician, a poet, an artist, etc., because of a construction in harmony with nature's highest combinations.

Do we not therefore find a grander meaning in the declaration of man's creation in the likeness of his Creator than the one accepted by man to-day? In the story contained in the construction of the Great Pyramid we find absolute proof that perfect construction, according to

the value of the H. atom, was known to the ancients.

The shape of the Gr. Pyr. . . . For every 10 units which its structure advances inward on the diagonal of the base to nocturnal darkness, it practically rises upward to sunshine, daylight, and sky. That proportion is as 1 to 1,000,000,000. The diameter of the spherical bacteria cell has been shown to be equal to 1,000 atoms, and as the cell forms squares, cubes, etc., the atoms must increase on the same basis; the cube of 1,000 is 1,000,000,000.

The value implanted in the combining weights of the H. atom has made it the constructor of the universe, through its own radio active construction, of electro magnetic particles. If the spherical cell also represents a radio active balanced construction, as a first condition of solids, every measurement must originate in the size of that cell; this is why "the squaring of the circle" is one of the features of measurements evidenced in the construction of the Pyr.

The material used in the construction is principally that of limestone, the internal core being entirely of nummulite limestone, which possesses a density equal to 0.412. This divided into 4 equal parts would yield 0.103 for each division, and we have here the origin of the value of the number that reacts on the majority of the numbers used in the story of the Pyr. We have shown the value of 103 as the expansion of the H. atom as a brain constructor of the body, and we find additional proof of the radio active construction of brain matter in the following facts: Dr. Draper gives 1.034 as the specific gravity of the gray matter of brain construction in the case of idiots; the specific gravity of the white being 1.041. The first represents an equal division of 2 parts, or 517 as a positive and a negative; the second of 3 parts, or 347 as a positive, neutral, and a negative. The total 864 afford 216 parts as an equal division or balance for each of 4 combinations. 216 divided equally into radio active combinations give 72 each; 72 equally balanced as a negative and positive afford 36 as the square of the 6 divisions of the nucleus within the animal cell. Now nummulite limestone is solely animal in composition, and the same construction in the human brain constitutes man an animal without intelligence. Did intelligence exist before man?

What we wish to show, however, is this: The specific gravity of an equally balanced, radio active construction on the basis of the neutral combination is one least influenced by external forces, and that the construction of the Pyr. with that quality evidences a knowledge of its value. Prof. Piazzzi Smyth gives, as his estimation, 10,340,000 solid cubits as the amount of solid masonry in the construction of the Pyr. The animal cell expands 10 times the size of its smallest diameter, and the square of 1000 is the rate of expansion in particles of the equal division of the positive and negative parts of the H. atom. 10,000,000 times the specific gravity of the construction of limestone equals the bulk of the masonry. The specific gravity is the ratio of the weight of a body to the weight of an equal bulk of some other body (usually pure distilled water). Taken as a

standard distilled water was the basis of all construction.

The weight of the earth is estimated by Piazzi Smythe at 5,273,000,000,000,000,000,000 Pyr. tons, and the weight of the Pyramid as 5,273,834, or nearly 1,000,000,000,000,000 times the weight of the earth. This increase is on the correct balance of the multiplication of the 1000 atoms in the bacteria cell as the one twenty-five-thousandth of an inch in diameter. Its expansion is governed by the 5 constructive powers implanted in the atmosphere. The H. atom would be represented by the square of 7 multiplied by 1,000 6 times; this would give 49,000,000,000,000,000 tons for that part of the earth's weight. In the proportions marked in the Ante-Chamber we find 4 vertical grooves on the south wall, which are 107.4 inches in length. If we divide the weight of the earth by the weight of the H. atom we obtain 107 as the result, thus showing the earth to be equally divided into 4 weights by the constructive powers of the H. atom.

The masonry courses, which run on a level throughout the construction, are of different heights, and no attempt has been made to interpret their proportions. These proportions evidence the construction of the earth in regular depositions by the activity of the bacteria cell as a creator of solids. The corner stones were 90 in. high, showing the division of the sphere into 4 parts or the circle of 360 degrees.

Near the middle of the north side the first course was only 59 in. in height, the elevated pavement being 31 in. in its projection as part of the Pyr. These two numbers, 59 and 31, are very often met with in the classification of the animal species and represent the 5 constituents of the atmosphere in combination with the 7 perfect combinations. The H. atom as we see evidenced in the colors of the rainbow, plus the constituents of the 6 divisions of the animal cell in its combinations with the 4 gases. Twenty-four plus 35 totals 59. Thirty-one represents the 3 combinations of the atmosphere as a radio active division, 3×5 plus the square of 4.

We find the first evidence of the division of the earth (because the earth was created by animal cell activity) in the division attending the bacteria in relation to the H. atom and the O. atom. Every part of the construction of matter can be estimated as accurately as can the division and multiplication of the bacteria cell.

Dr. Dawson divides the Laurentian Rocks into 10 stratas and states that each strata consists of three distinct formations—conglomerates, shelly limestone, and marls and clays. If these are investigated we find that each one is also made up of three different constructions, so that we have the 90 parts in the first construction where we find the first evidence of animal cell construction. The different rock formations are divided into 6 parts, and are described as being in thickness 30,000, 25,000, 20,000, 15,000, 10,000 and 5,000 feet. We have here the evidence of the depositions being controlled by the atmospheric construction as 5 times 6 (animal cell); 5 times 4 (number of gases); 5 times 3 (radio active); 5 times 2 (equal division of the positive and negative), and lastly, 5 times 3 as a radio active basis for the construction of air-breathing animal especially

confined to the surface of the land.

We have already spoken of the value of $C_2H_2NO_4$ being equal to 104 H. atoms, and the division of the Protozoa into 104 families. Dr. Lowig states that the addition or withdrawal of this construction determines the weight of a great number of organic compounds. Now, as each year adds to the construction of matter by cell activity, chemical construction must be governed by the same laws that constitute the atmosphere a chemical body. C_2H_2 in addition to a chemical construction raises that construction a certain degree in bulk, so that the bulk of the earth can be estimated by the value of C_2H_2 as a definer of atomic volume; and it is equal to 26 H. atoms, or 13 as a positive and 13 as a negative value which we trace as a union of 7 to 6. C_2H is a combination given by Dr. Lowig as the active quantity in combination with $C_2H_2NO_4$; it is equal to 25 H. atoms or the condensation of the atmospheric elements into a value equal to the square of 5.

Just here we might look at the value of the constitution of blood, the chemical formula of which is given by Draper as $C_{48}H_{39}N_6O_{15}$. We have here the provision for 12 C_2H_2 , 12 C_2H , and N_6O_{15} as a radio active combination of 3 N_2 , O_5 . If we look at the independent value of each we obtain the provision for a radio active combination in the number of electrons, no matter what combination is required.

In order to save time and space, we will not further explain the individual value of the numbers 2, 3, 4, 5, 6, 7, 8, 9, as they have all been explained in the combinations already mentioned.

Dr. Lowig gives 226 or 113 as a positive and a negative atomic volume of C_2H_2 at a certain temperature; another value he gives as 211, etc., and we find these numbers coming up in the proportions of the Pyr.

If we take the total number of inches represented in the first 25 masonry courses of the Pyr. we obtain the number 918 or the radio active square of 3 102 times as a positive 51 and a negative 51. This value equals C_2H_2 plus C_2H . The second 25 courses total 807, and that number defines the different families of the birds, fishes, batrachia, and reptiles as cell combinations of one magnetic centre on a proportion of the earth in the Northern U. S. as given by Jordan, and shows the creation of those forms of life in the early history of the earth. The third 25 courses totals 690, and that number records the whole number of the different families treated by Sedgwick, including cell constructions from Protozoa to Chaetognatha. This number also represents the value of 23 as the radio active value of albumen. The fourth 25 courses total 682, and we find the union of the 5 and 6 evidenced in the division of 682 by 11, which gives 62 or 31 as a positive and a negative balance, which is 4 squared, plus 3 times 5. (The value of the 31 spinal nerves may now be understood.) We have now taken the value of the atmosphere in construction with 4 equal divisions, we must now look for the value of the square of 7, and the next 49 courses total 1224, and this number is equal to the radio active combinations of 3 times 4 102 times, or 51 as a negative and 51 as a positive value

of the H. atom. In other words, we have 24 C_2H_2 and 24 C_2H , as the constructor of the atmosphere.

The next value we find expressed in the 36 following courses, or from the 148 to the 185. These total 792, the one-fourth of which is 198, a positive of 99 and a negative 99, or the 11 times radio active 9 as a second atmospheric balance. The next division is that of 3 equal weights in the 5 division of the atmosphere, and the next 15 courses total 321, or an equal 107 for each of the radio active combinations, and we arrive at the number 107 that is evidenced in the 4 vertical grooves of 107.4 inches in length on the wall of the Ante-Chamber, and which we have already shown to be obtained by the square of 7 multiplied by 1000 5 times, divided into the weight of the whole earth. The remaining number of construction courses are not known, as the topmost ones have been removed; but the estimated height leaves 379 as a remainder to divide between the 6 plus 7 as the value of equal cell construction, and this divided into 379 gives 29 as a magnetic number that governed the divisions of the earth into 3 parts containing 7, 6 and 5 subdivisions, the divisions being the Palaeozoic, Mesozoic, and Cainozoic. The total 18 divisions according to animal forms cause the division of the earth into 29 periods of time, and the whole number of animal species are divided into 9 sub-divisions. The number of periods or the evidence of the remains of the different animals show 387 partitions in the table, and the equal radio active division of these by 9 gives 43 or 23 plus 20 as the value of albumen, or $C_2H_2NO_4$ plus C_2H 4 times.

There could not be a more definite explanation of the radio active construction of matter than is found in the different heights of the construction courses throughout the Great Pyramid.

If we take the value of the different heights of stones in groups of three fifties, and a fourth group of 49, we obtain the following values: The first fifty courses total 1725; this divided by 25 as a total atmospheric value afford 69 as a radio active value and so 23 as a basic value found in the construction of albumen. This height is on a level with the King's Chamber, in which is evidenced the same degree of increase, in proportions as we find displayed in the multiplication of the bacteria cell.—of which more later on.

The second 50 courses total 1372, and this equals the division of the whole by 4 and gives 343 as an equal value of the square of 7 or 49; this is the value of the H. atom in the construction of the atoms of Carbon, Nitrogen and Oxygen in relation to the 6 divisions of the animal cell.

The third 50 courses total 1250, and this divided by the square of 5 gives 50, or 25 as a positive and negative balance in the outer limits of the construction of the atmosphere. The next 49 courses total 1085; this divided into 5 equal parts give 213 as a radio active or 71 as a basic value made up of 49 plus 22 as the value of equal balance in the union of the value of the H. atom in the positive and negative construction of 5 and 6.

From the 199th course to the 210th (the full number of courses) there are 401 inches, and these actually give us the value of the union of the 6

constituents of the animal cell with the 5 constituents of the atmosphere with the positive and the negative value of the 4 gases or the 4 combinations that brought forth the Obligative Anaerobes, the Facultative Anaerobes, Abligative Aerobes, and the Facultative Aerobes of bacteria construction; as numbers 11 times 8, 7, 6, 5, 4, 3, 2, 1, and 5 as a basic constructor, we obtain 401, or the exact total of the last 11 courses of stones, again proving the radio active combination of electrons the square of 3 or 9.

SUBTERRANEAN CHAMBER.

This room is described as an excavated chamber in the rock about 100 feet vertically under the centre of the base of the monument. The inclined passage leading to this chamber entered at a point about 58 feet above the levelled ground, near the middle of the northern side. This passage lead to a point where two inclined passages were formed, one leading upward into the Grand Gallery, and the other downward into the subterranean ch. This 58 gives an equal division in two parts for the magnetic 29 combination; 100 provides for the full value of a whole combination.

The height of the entrance or doorway, transversely to length of the passage way is 47.24; breadth, 41.56. The total of these two numbers is 88.80. We have here the combination of 8 times 11 and 8 times 10 as the radio active exchange between the animal cell and the atmosphere, with the 4 gases as a balanced construction and the positive and negative atmospheric body with the positive and negative weights of the 4 gases. It appears evident that the numbers given as decimals represent the divisions of the combinations used in the proportions given. The bore, in horizontal region, for height is 36 in.; or a radio active provision for 3 times 4 as 12; and 3 times 12, or 36, as emanations from the earth for the construction of the atmosphere. The breadth is 33, or 3 times 11, as equal combination of cell and atmospheric constructions. The floor of this chamber was left in a broken state to show the element of decomposition in the earth for the material supply of atmospheric gases, etc. The ceiling was beautifully polished and was 46 ft. long by 23 broad. The movement of the earth around the sun generates that which we call life, and 46 affords 23 as a positive for earth and 23 as a negative combination for the atmosphere, and we have here the same number as we find implanted in the animal cell as the H. atom value in albumen, etc. Twenty-eight evidences the emanations to be divided into 4 parts by the value of the 7 divisions of the H. atom. At the east end the walls were 13 ft. high, showing the value of 6 plus 7; at the west end the wall was 4 ft. in height, again showing the division of the emanations from the 6 parts of the animal cell combined with the 7 divisions of the full value of the H. atom to be condensed into 4 equal parts when the magnetism of the atmosphere caused the separation of light from darkness.

There is a small horizontal hole penetrating into the rock southwards from the south wall of the chamber whose length is 633 in., height 31,

breadth 20. We find 633 represents the atomic volume of C_2H_2 in 3 equal parts, or 211 as one part; 31 has already been shown to be made up of 15 plus 16; 20 is the magnetic combination already explained.

The length of the ascending passage from the junction of the descending passage into the Grand Gallery measures 1545 in.; this provides for the 5 divisions as 309, and this for an equal one-third, or 103, a number already shown to represent the proportion of the weight of the H. atom in its lightest weight to that of its greatest weight in decomposition as 1 to $33\frac{1}{3}$.

The height and breadth of the passage is the same as the descending one, 88.80.

The Grand Gallery is representative of the atmosphere. The vertical height at any one average point is 339.5; one-third of this is 113, and this number is given by Dr. Lowig as the atomic value of C_2H_2 at a certain temperature. The decimal 5 shows the construction as the atmosphere to consist of 5 parts. The 7 overlappings of the walls show the construction of the atmosphere through the value of 7 equal combinations. The overlappings of the roof plates are 36, and so the radio active increase of 3 times 4, as 12 and 3 times 12.

It contains 36,000,000 cubic inches, which is the square of the value of the contents in the nucleus of the animal cell in gaseous elements, as 6,000 times 6,000.

The meaning of the ramps has remained a mystery. We find there are 28 holes in the ramps on each side of the G. G., and these holes connect with the great stone step at the southern end; this step is 36 in. high and 61 in. from north to south along the flat top. The place of the north edge is, according to Mr. Petrie's measurement, exactly between the Northern and Southern halves of the Gr. Pyr. This shows that the great step represents a point where the whole emanations from the earth was equally divided into a positive and a negative balance in the perfected construction of the sun. The King's chamber shows the perfect construction of man, and that did not take place till after the construction of the sun was established.

It has only lately been known that magnetic storms occur on the earth every $27\frac{1}{3}$ days in connection with sun spots, and it takes 26 hours for the storm to centre on the earth, which gives the cause by the Gr. Pyr. as being a radio active current from the earth to the sun, and then to the earth again. Of these 28 holes on either side, 25 of each are distinguished by a piece of stone about 13 inches broad and 18 high, but with considerable variations, being let into the wall vertically and immediately over them; while of these 25, 24 on either side, are crossed slantingly by a broad, transverse groove measuring about 22 inches long, 12 broad, and 1 deep, with its lower edge about 3 in. above the ramp's surface. In these dimensions we find the description of the electro magnetic currents between the earth through her atmosphere to the sun and return.

The length of the inclined floor from N. to S. wall is 1881.8 in. This

divided by the square of 3 as a radio active exchange between the positive, neutral and negative electrons give 200, and this divided by 7 gives 29 as a magnetic combination that was established between the earth and the sun that produced the measurements found in the Ante-Chamber, which made man a perfect construction that was not subjected to death in that creation.

The length of the passage from the G. G. to the Ante-Ch. is 52.5 and shows the establishment by the 5 div. of the atmosphere of 52 weeks in the year, or 52 sevens, as a phase of the moon's government.

The upper exit at top of eastern wall at the southern end of G. G. is in height 33 in., breadth 20, or 3 times 11, and 4 times 5 in equal balance.

ANTE-CHAMBER.

Extreme length from north to south, 116.26, or 4 times 29; 116 represents the whole number of families of the vertebrates of the Northern U. S. (as a magnetic centre) and shows the creation of the animals before man, and that the electro magnetic material in their construction separated from the atmosphere the grosser material that left man's proportion a perfect creator of intelligence.

Attempts have been made to show that every plant requires a definite amount of heat to bring it to maturity. We quote the following: "In Egypt, on the banks of the Nile, barley takes 90 days to mature; the mean temperature of this season is $69^{\circ} 48'$. . . if the number of days be multiplied by the mean temp. we obtain 6282 for Egypt." This divided into two parts give 3141, and this divided by the cube of 3, or 27, gives 116 as the value of each individual combination; again we find that it is the cell activity that keeps in motion the solar system through its balance with it, and vice versa.

The height of the Ante-Ch. is 149.3: this number equals the radio active combination of the squares of the 3 numbers, 6, 7, 8, in addition. The breadth at top is 65.2, or 6 plus 7 five times. The eastern wainscot is 103.03 in. in height; that number has already been explained. The western wainscot was 111.80 in. in height; this affords 37 as 3 equal parts made up of 5 times 5, plus 3 times 4, as radio active combinations in the condensation of the atmosphere that causes chemical action that produces sleep in the animal construction and night in the atmospheric construction.

The exit passage, horizontal, from Ante-Ch. southward to King's Ch., in granite all the way, is 100.2 in., or the square of 5 as a positive and a negative value in the atmosphere and the animal cell; height at the north end, 43.7, or 23 plus 20 as a positive and negative basis for the perfect cell construction in 7 equal divisions.

The height at south end is 42, or 6 times 7, as governing the angle that divides the human race into 42 different types. Breadth at south end, 41.4, or the square of 5 plus the square of 4 as equal 4 divisions of the value of the H. atom in man's construction. The 4 vertical grooves on the south wall shows the division of the whole solar system into 4 parts, and because of this man was made an upright creation. The weight of the earth di-

vided by the full value of the H. atom yields 107 as an equal weight for each division. The King's Chamber

The measurements in this room evidence the construction of man on the same measurements as govern the multiplication and development of the bacteria cell.

In the first part of this work we have shown the value of the number 103 to be the weight of the male, irrespective of age, by the proportion of 1 to $33\frac{1}{3}$ between the weight of the brain and the weight of the whole body. That is the one-seventh of the 700 electrons said to make up the H. atom equally divided into 3 parts.

The bacteria cell as being the one twenty-five-thousandth of an inch in dia., has room for 1000 atoms, and the degree of expansion implanted in gaseous constructions can be estimated by the increase in size of the spherical bacteria cell. The cell is from 1 to 2 microns in diameter; as a rod it increases in proportion as 2 to 4. The King's Ch. is 206 in. broad, or twice 103, and the decimal 066 shows the combination of 5 plus 6, 6 times, as an equal balance in animal cell and atmosphere.

The length is 412.132, or 4 times the value of 103, and we have the equal balance of the 4 divisions of cell combinations. The height from floor to ceiling is 230.339 in., and we obtain this number by the addition of the squares of 9, 8, 7, 6 as combinations that brought forth man's creation. The walls are in 5 equal courses, showing man's construction on the same basis of condensation as takes place in the construction of the atmosphere. The floor of this chamber is 1722 inches above the main socket floor, and this number divided by 2, 3, 7 provides 41 as a basis of construction equal to the square of 5, plus the square of 4, showing the construction of all things from the value of the H. atom in the construction of the earth and that of her atmosphere.

The 5 courses of stones are about 4 ft. in height, recording the value of the 4 gases.

The whole room contains just 100 stones, and the 4 lower courses contain 93 stones, or 3 times 31, the radio active value of the emanations from the earth as we find evidenced in the 31-inch elevated pavement as part of the Gr. Pyr. in its connection with the earth. The 31 spinal nerves connect the nervous system of the body with the motive power in the brain.

The top course of stones numbered 7, showing the highest part (the brain) as being divided into that value as the highest construction found in the H. atom.

Without considering any of the values given the different proportions by Prof. Smythe, which have their established value, we may say a word about the work of Richard Proctor, who claims to have upset the theory of the Pyramidalists; and we here find in his work greater proof of the story contained in the construction of the Pyr. than even that claimed for it by Prof. Smythe.

Prof. Proctor declares: "If the proportions found in the Gr. Pyr. were the result of design, then every part of natural construction is the

result of design." He gives a paper written by Baxendale, who finds that he can secure the same result in obtaining numbers by the use of the number of inches in a British mile, 63,360, as secured by Prof. Smyth without any miraculous hints. This fact is explained by the size of the atom, 25,000,000 reaching an inch in diameter.

The claim for supernatural instruction, as man has been in the habit of defining as communication without material construction, has kept man in the dark for ages, and has caused the almost repudiation of the truths contained in the greatest of all books, even by the theologians themselves.

The Pyr. has been said to have been built on the principles of 5 and also of 5 and 6 combined. The explanation is apparent when we find the construction through which all matter was made active.

The coffer within the King's Chamber was lidless, showing that there would be nothing to enclose in a coffin when man understood his construction.

The Queen's Chamber shows the combinations that established the radio active construction of the atmosphere as individual cells, known as the first form of animal life in the earth.

We will only refer to one more point to show the value of the information contained in the construction of the Gr. Pyr.

There has been written many articles regarding the mark in the length of the G. G.'s inclined floor line as 1881.8, and many thought it showed the end of the world. It was a notice of a new dispensation through the re-establishment of the equal division of the 4 combinations that determined the 4 different forms of animal life.

Kepler's laws proves the "retardation of the planets" in their motions. If all matter is of one radio active construction, the earth is subjected to this retardation because of the laws of magnetism. In 1881, on the 5th of Sept., there was a "dark day," and we find its cause in the magnetic condition of its atmosphere. The condensation that took place at that time established a higher degree of electro magnetic conditions. We find there was a like "darkness" over the same centre in May, 1780, or 101 years earlier, a combination that assures its explanation. In 1881 we find recorded 52 earthquakes, or one for every 7 days. Earthquakes show the same combination in numbers as do all other constructions. We give the following numbers as proof from one centre: In the U. S., from 1872 to 1885, the numbers for each year were 18, 27, 20, 33, 20, 33, 29, 19, 29, 52, 41, 39, 42, 51. During 14 years there were 453, or an average of 32 for each year; that is the square of 4 in a positive and a negative combination. There is marked the year 1910, and from the time of the dark day in 1881 to 1910 there are 29 years; that number marked the magnetic government in construction that is controlled entirely by the circulation of a magnetic current throughout the whole solar system, so there will probably be ushered that time the re-distribution of an equal temperature around the earth by the radio active emanations from cell constructions. What-

ever is to take place at that time can be ascertained by an investigation into the numbers used in the construction of the Gr. Pyr.

Lastly, the table of measurements given by Prof. Smyth is exactly on the same basis of increase as evidenced in the multiplication of the spherical bacteria cell. The lowest measure is 25,000,000, and the divisions are in keeping with the value of the H. atom as a constructor of matter.

The Bible as a scientific exposition of the radio active construction of matter :

The story of the creation of the earth, and of man, as told in the first chapters of Genesis, is a scientific exposition of the radio active construction of matter.

The imperfect comprehension of that which constituted man an intelligent creature, made in the likeness of his Creator, has almost caused the loss of intellectual development in the human race.

The construction of the earth by cell activity makes true every statement in the story of the creation ; it also makes true the statement that the use of wrong food caused the entrance of death in the human family. If it had not been possible for man to live without death, it could not have been possible for the atmosphere to have remained in existence.

The phenomena attending the growth and development of bacteria prove that the chemical construction of the pabulum given them govern their production of chemical substances which are either constructive or decomposing in their action.

That the statement of a "flaming sword keeping the way to the tree of life" was not without value as a direction to man to look for its construction in a body that affords a continuous luminosity, is evidenced in the discovery of the radio active properties of matter. We should value the hint contained in that declaration, because the cherubim that guards the way is typical of the angel of knowledge, or the keeper of knowledge.

The words of Christ also assured man that "the Kingdom of God was like leaven which a woman took and hid in 3 measures of meal until all was leavened," thus showing His knowledge of the everlasting principle of life. He also said : "The Kingdom of God is within you." The separation of man from his Creator has kept him in darkness for many ages, but the light of scientific knowledge as to the electro magnetic construction of matter removes the cause of darkness, and man has no limit to the development of his intellectual faculties when he is assured of his creation in the likeness of his Creator.

