

AC-0085

PART - 1

SUMERIA

The Earth's "Center of Gravity"

Up or Down?

Author unknown

Why was it that at the turn of the century, the Geodetic Survey Department of both the French and United States governments made certain tests which upset the Copernican theory, then DECIDED THAT THEY SHOULD BE KEPT "SECRET"?

What, actually, were these tests, and should they be repeated today, under the most severe test conditions?

If you've ever watched a bricklayer at work, you've seen him use a plumb bob to determine the perpendicular so that his wall will be erect and straight. A plumb bob is simply a weight suspended on the end of a cord. It acts on the principle of the attraction of gravity, or mass, and the weight always points toward the center of gravity, which in the case of the spherical Earth is its exact center.

A line formed by the cord of a plumb bob is at precisely a right angle from the horizontal. It is a division of a plane surface into two 90 degree angles. By simply laying his bricks parallel to the line of the plumb bob, the bricklayer builds a wall that is precisely erect. If he did not use a plumb bob, there would be many more leaning towers of Pisa in the world.

However, the plumb bob is not used only to erect buildings, but it is used to measure the distance of the sun. Or any planet. This is done by measuring a precise horizontal distance on the Earth (which is naturally a curve, because the Earth is round), and since we know the circumference of the Earth, the distance around it, thus we can calculate an exact base for our proposed triangle to be used in measuring the distance of the sun.

Then, by use of a sextant, we can "shoot the sun" from both ends of this base line, and get a pair of angles which are slightly less than 90 degree angles because they are obviously not parallel to the perpendicular as determined by the plumb bob.

We know that, given one side of a triangle, and two of its angles, we can calculate the length of the other two sides. Thus, we can tell how far the sun is from the Earth.

It isn't quite this simple, because we don't know the precise size of the Earth, (written in 1965), and thus, the difference in parallelness of the two perpendiculars we have achieved at both ends of our base line.

It should be obvious to the reader that since the plumb bobs point AT THE CENTER OF THE EARTH, lines projected TO the center of the Earth WOULD MEET AT THAT CENTER, and likewise, lines projected into space would continually move FURTHER APART.

Thus we have a great interest in exactly HOW FAR IT IS TO THE CENTER OF THE EARTH, in order to be ABSOLUTELY SURE of our two important angles in FIGURING PLANETARY DISTANCES.

Sometime prior to 1901, the French Government, wishing to determine more accurately the ACTUAL SIZE OF THE EARTH, so that they could revise and refine their calculations regarding the DISTANCE TO THE SUN, hit on a way to measure the difference in distance apart at the top of two lines perpendicular to the surface of the Earth and the bottom of those same two lines.

They wanted a pair of lines long enough to give them an appreciable measurement. Obviously they could not erect two parallel poles a mile high, but they did feel they could SUSPEND two plumb bobs A MILE DEEP INTO A MINE SHAFT, and thus be able to MEASURE THE DISTANCE APART AT THE TOP AND THE DISTANCE APART AT THE BOTTOM, which WOULD BE SLIGHTLY LESS (at the bottom). They wanted to know exactly HOW MUCH LESS.

The result of these tests were VERY STRANGE. So strange that the French Geodetic scientists contacted the scientists of the American Geodetic Survey and conveyed their results to them, with the request that similar tests be conducted in this country.

Officially, NOTHING WAS DONE FOR SOME YEARS. But in 1901, one of the Geodetic surveyors happened to be working in the vicinity of the Tamarack mines near Calumet, Michigan. He contacted the chief engineer at Tamarack, and informed him of the information transmitted by the French government.

Two mine shafts were selected, and plumb lines EXACTLY 4,250 feet long were suspended IN EACH MINE.

At the end of these lines a SIXTY POUND BOB was hung. In order to PREVENT MOVEMENT THROUGH A HORIZONTAL DIRECTION, each bob was suspended in a tank of oil placed at the bottom of the mine shafts.

In this way, it was reasoned, MAGNETIC FORCES COULD NOT AFFECT THEM.

The lines used to suspend the bobs were No. 24 piano wires. For twenty-four hours the lines were allowed to hang, so that there would be NO POSSIBILITY OF MOVEMENT from putting them in place still remaining in the lines. The measurements were begun.

It was then that it was discovered that the French Geodetic engineers had NOT MADE A MISTAKE. Careful re-checking proved that the lines, CONTRARY TO EXPECTATIONS, were FARTHER APART AT THE BOTTOM THAN AT THE TOP!!

There can be only ONE IMPLICATION to such a strange result - the center of gravity is not, as previously believed, at the center of the Earth, but in fact, IT MUST BE ABOVE THE SURFACE OF THE EARTH, SOMEWHERE IN SPACE!!!

If these two lines, formed by the suspended plumb lines, were to be EXTENDED UPWARD, they would MEET SOMEWHERE in the void AWAY FROM THE EARTH, and that point, BY ALL THE RULES OF GRAVITATIONAL ATTRACTION, SHOULD BE THE CENTER OF GRAVITY OF THIS PLANET!

Greatly puzzled, and not a little disturbed, the Tamarack engineer sent for Professor McNair of the Michigan College of Mines. With McNair there to check his results, the experiment was repeated, the measurements gone over again, and BOTH MEN WERE CONVINCED NO ERROR HAD BEEN MADE.

Professor McNair suggested that the plumb bobs be changed to a NON-MAGNETIC metal to overcome ANY POSSIBILITY OF MAGNETIC ATTRACTION OR REPULSION DUE TO A MAGNETIC ORE BODY NEARBY.

But when this was done, the SAME FIGURES WERE ARRIVED AT. If magnetic influences had been at work, they would HAVE VARIED WITH DIFFERENT METALS, BUT T H E Y D I D N O T !!

Now, suggested McNair, it would be a good idea to PREVENT AIR CURRENTS from traveling up and down the mine shafts which might be affecting the plumb lines. Thus, both mine shafts were SEALED AT THE TOP. Once more THE FIGURES REMAINED THE SAME.

After trying many methods to vary the figures AND FAILING, Professor McNair gave up in COMPLETE BEWILDERMENT.

These series of tests had not gone on in complete secrecy, and it was inevitable that news of them leaked out. It leaked to a reporter of the Milwaukee (Wisconsin) SENTINEL, who published the story.

It stated the crux of the situation as follows :

"The wires were supposed to hang parallel to each other (the reporter made an error here, THEY SHOULD HAVE HUNG CLOSER TOGETHER AT THE BOTTOM), but were FARTHER APART BELOW THE SURFACE than they were AT THE SURFACE and no one has suggested anything that seems to cover the question."

Professor McNair, when questioned, stated for publication that he had proved that magnetic attraction from the Earth or the sides of the shaft DID NOT CAUSE THE STRANGE DIVERGENCE.

Then he went back to the Michigan College of Mines and wiped the whole thing from his mind. Apparently this is true, for he made NO EFFORT to contact his colleagues or scientists to call attention to the fact that WHAT THEY WERE TEACHING about GRAVITATION and plumb lines DID NOT ACTUALLY HOLD TRUE WHEN PUT TO A CONCLUSIVE FIELD TEST.

However, we can forgive Professor McNair for his reluctance to pursue the matter further, because its implications ARE TREMENDOUS INDEED. They are totally SHATTERING TO OUR CONCEPT OF THE UNIVERSE, and in fact, if they can be made to hold true, MAKE A SHAMBLES OF ALL OUR PHYSICAL SCIENCES.

Obviously Professor McNair was unwilling to so upset his daily routine. Nor were the United States and French governments - for as the French put it,

".....the value of the franc will remains unchanged, and bridges and buildings can still be built, SO WHY MAKE AN ISSUE OF IT??"

However, Professor Hallock of Columbia University was of a different mind. He heard of the experiment through a professor at the Michigan College. He held that this actually WAS ATTRACTION UPON THE PLUMB LINES, and in a very astute article, told how easily the matter could be settled by USING PHOSPHOR BRONZE WIRES instead of piano wires, and LEAD BOBS for iron bobs.

The Tamarack engineer, delighted to clear his mind of its confusion, followed these instructions to the letter - and came up with PRECISELY THE SAME MEASUREMENTS as before.

When Professor Hallock was informed of this result, he retired into a dignified and stony silence. Not so the Tamarack engineer. He had decided that something was causing this phenomena, and he was going to find out what it was.

Plumb bobs suspended IN A SINGLE MINE gave TOO DELICATE A DIFFERENCE in measurement, and after all, WERE NOT ACCURATE ENOUGH to give any reliable figures ON THE AMOUNT OF DEVIATION, (for instance, per mile), and whether or not the deviation had ANY RELATION TO THE SIZE OF THE EARTH.

After all, it had originally been the purpose of the French Geodetic Survey to REFINE THE ACTUAL SIZE OF THE EARTH AS THEN KNOWN (late 1800's) to a more accurate figure. They had something in mind concerning artillery, as well as astronomy.

A second series of experiments were conducted at Calumet (Michigan). This time TWO ELEVATOR SHAFTS into the mine were used INSTEAD OF ONE, those numbered two and five.

These two were 4,250 feet APART, and were also 4,250 feet DEEP. They were connected at the bottom by a perfectly straight transverse tunnel.

Now, plumb bobs were hung in each shaft, and measurements were made. This time it was found that the plumb lines were 8.22 inches FARTHER APART AT THE BOTTOM of the pit than at the top.

It did not take the Tamarack engineer long to discover that this figure exactly represents the DIVERGENCE THAT WOULD BE NECESSARY TO COMPLETE A 360 DEGREE SPHERICAL CIRCUMFERENCE. (in other words, a SHELL OF FORCE AROUND THE EARTH)

There was only one difficulty - as expressed by the plumb lines, it would be the CIRCUMFERENCE OF THE INSIDE OF A SPHERE AND NOT THE OUTSIDE!!

Further, the center of gravity, as expressed by the angles formed by the plumb lines, would be approximately 4,000 MILES OUT IN SPACE!!

Obviously THIS COULD NOT BE TRUE, because if the Chinese were to make calculations based on a similar pair of mine shafts in their country, on the OPPOSITE SIDE OF THE GLOBE, the center of gravity would be found to be 4000 miles IN THE OTHER DIRECTION!!

The center of gravity, according to the plumb lines, was a SPHERE'S SURFACE, some 16,000 MILES IN DIAMETER!!

ANY PLACE, 4,000 MILES UP, WAS THE CENTER OF GRAVITY!!

Can we blame the Tamarack engineer for going down in his mine and maintaining a grim silence FROM THAT MOMENT ON??

A United States Geodetic Survey crew for two years conducted further experiments, among them measuring the surface of a long lake in Florida on the theory that WATER CONFORMS TO THE TRUE CURVATURE OF THE EARTH'S SURFACE, REGARDLESS OF HOW THE LAND MAY BE, thus giving A TRUE LEVEL - only to find that WATER CURVED UPHILL IN EACH DIRECTION RATHER THAN DOWNHILL!!

Can we blame them for deciding that to give these startling figures to the world would HAVE NO BEARING ON THE PRACTICAL PROBLEMS of life, and was therefore BEST FORGOTTEN, since an exploration was BEYOND THEM??

However, others were making similar experiments, among them a mystic named Koresh (Cyrus Teed), who claimed he was the Christ, come for the second time. In spite of his mysticism, his scientific measurements and experiments were NOT IN THE LEAST MYSTIC.

He used the plumb bob to great advantage, for proof that the Earth's curvature was THE REVERSE of that USUALLY ACCEPTED AS TRUE, and thus claimed that WE LIVED ON THE INSIDE OF THE GLOBE, RATHER THAN THE OUTSIDE!!

He accounted for the sun, the planets, the stars, the moon, gravity, etc. in a very elaborate set of theories, but in spite of this, his discoveries also went by the board, and are scarcely remembered today, and NEVER MENTIONED IN SCIENTIFIC CIRCLES.

Yet, the facts remain. Plumb lines are FARTHER APART AT THE BOTTOM THAN AT THE TOP. What does it mean? What is wrong with our concept of gravity, mass, electro-magnetism, the Earth's size and shape, our position in relation to other bodies in space, the VERY NATURE OF PHYSICAL REALITY?

From this point on, in this article, we will deviate from facts, and merely theories. We ask no one to take what we say seriously, as being presented as an explanation.

The statements we will make we make ONLY FOR THE PURPOSE OF ARGUMENT, and possibly to point a way toward further experiment in an effort to solve the mystery.

First, the Earth is a sphere (with certain very minor irregularities). We live on the outside of it.

The Moon circles the Earth, and the Earth circles the Sun. Some force holds them all in orbit and in their relationships to each other. It is said that gravitation is that force.

It is said the Moon's orbit is maintained because the attraction of mass of both bodies is exactly counterbalanced by CENTRIFUGAL FORCE.

The Earth system is maintained in its orbit about the sun by the same delicate balance.

Could it be that THERE IS NO SUCH THING AS "ATTRACTION OR MASS?"

Would not such a quality in mass have resulted, eons ago, in the whole Universe being GATHERED TOGETHER IN ONE CRUSHING SINGLE BODY?

Some scientists say this is what DID HAPPEN, and that there was a resultant terrific explosion (the Big Bang theory), and that the Universe is NOW EXPANDING (as proved, they say by the "red shift" which shows the distant galaxies to be receding in every direction at a CONSTANTLY INCREASING SPEED, the more distant ones just recently discovered at something like 90,000 miles per second).

Does not this increasing speed DISPROVE THEIR OWN THEORY, because shouldn't the speed of RETREAT FROM THE CENTRAL POINT (strangely enough our own solar system!) DECREASE as greater distances were reached? (the inverse square law)

If there is no such thing as attraction of mass, then we are not bothered with any center of it.

Could it be that the presence of mass (regardless of properties) merely causes A DISTORTION IN ITS IMMEDIATE AREA, such as the curvature of light noted (as predicted by Albert Einstein) around

the sun during a solar eclipse?

Thus, wouldn't a plumb line be deviated IN PROXIMITY WITH MASS simply BY REASON OF THE INTENSIFICATION of that mysterious agent of creation, an ELECTRO-MAGNETIC FIELD? The best theory of creation to date is the theory of an electro-magnetic field being placed in rotation, and thus the DRIVING TO ITS CENTER, in a literal CONDENSATION PROCESS, OF MATTER, to form the central body of a planet.

Anyone who has watched a whirlpool, or a whirlwind, has noted the POLAR "HOLES" IN BOTH ENDS. If the Earth was so formed, would it not be MANDATORY that it have A HOLE AT BOTH POLES, AND POSSIBLY EVEN BE HOLLOW?

Do all planets have such holes? Do we see evidence of them in the polar caps (clouds hiding the opening, just as clouds perpetually shroud our own poles) of Mars, and the mysterious "hole clear through" Mercury, the mysterious "red spot" of Jupiter, the rings of Saturn, etc.?

If gravity (as Einstein finally said when he formed his last theory, the electro-magnetic field theory) is really NOT A THING AT ALL, but merely manifestations (along with electro-magnetism) of SOMETHING ELSE (the electro-magnetic FIELD IN MOTION), then can we not account easily for the experiment of the plumb bobs and its strange result?

Is there actually NO GRAVITY OUT IN SPACE (outside the whirling electro-magnetic field) and also, NO INERTIAL MASS, so that the recent proposal to "sail through space" on aluminum sails which catch the infinitesimal energy of the photon (light particles), and thus require no engines at all, is reasonable and practical?

Is it not true that the plumb lines are not straight at all, but FOLLOW A CURVE dictated BY THE LINES OF FORCE of a WHIRLING ELECTRO-MAGNETIC FIELD?

Is it not true that the sun is seen NOT VIA LIGHT COMING TO US in a straight line, but actually A GIGANTIC CURVE dictated by the master vortex of the Solar System's whirling electro-magnetic field? Thus it would be CONSIDERABLY NEARER than the 93,000,000 miles we believe its distance to be?

If there is no such thing as a "straight line" (due to the time/space/gravity curvature) in this sense of the words, then are not all our measurements of astronomical distances BASED ON INITIAL ERROR inherent in the incompatibility of angles and lines in a perpetually WHIRLING "CURVED" ELECTRO-MAGNETIC FIELD?

Are gravity, magnetism and inertia ONLY ILLUSIONS induced AS PROPERTIES OF ELECTRO-MAGNETIC FIELDS?

Is that why the plumb lines do not behave as they should; why GYRO-COMASSES DO NOT WORK WITHIN 150 MILES OF THE "POLE;" why it is proposed to "sail" the seas of space merely by the propulsive force of the "wind" of light photons; why we are developing an "ion-thrust" engine for space travel in spite of the fact that its thrust is COMPARABLE TO THAT OF A POCKET FLASHLIGHT?

The sun, they say, has a very weak electro-magnetic field. The Moon none at all. Does this mean NO GRAVITY ON THE MOON? NO INERTIA? NO MAGNETISM?

A thousand questions arise from the stimulus of these two vexing plumb lines whose effects have been so disturbing on the minds of

those whose lips remain sealed - because "it will not affect the value of the franc..."

Anyone with any basis in physics at all will find these questions thronging through his mind. We present these few only to provide that "initial thrust" to your thinking, and to challenge the owners of francs whose value is dubious in any event.

Lastly, might we suggest to the scientists at Vandenburg Air Force Base, where the polar satellites are launched, that here, in the doubt cast on the scientific concept of gravity, mass and inertia, exists perhaps an explanation for six straight failures to even locate a PERFECTLY LAUNCHED MISSILE AFTER IT PASSES INTO THE MYSTERIOUS POLAR REACHES.

That failure is due to the INERTIAL GUIDANCE SYSTEM (rotating gyroscopes) that DEPENDS FOR ITS FUNCTION ON REMAINING IN AN ELECTRO-MAGNETIC FIELD.

At the poles, might it be that there are "holes" in this field, and that your rockets are being lost in these holes, propelled by TOO MUCH rocket thrust (not needed if there is low or no inertia) acting on little or no mass at all (inertia-wise)?

The whole thing is something to think about, and certainly NOT TO BE HIDDEN beneath a pile of francs. Would it be too much for us to ask that a body of recognized savants be assigned the task of conducting these experiments again, in the light of present-day knowledge and experience and implements, to correct our impressions concerning gravity, the true nature of electro-magnetism, and such relatively simple things as where or not a body of water's level CURVES UP OR DOWN??

After all, it is our money that is being spent shooting at a target that may not even be where we think it is? A record of 100% misses for Vandenburg is subject to questioning and re-evaluation!

[[Physics](#)] [[Sumeria](#)]

AC-0085
PART-2

The Hollow Earth Theory

On one of those not-so-fine days of which their city had rather more than less, Lydia's father said to his daughter, "Now that you're such a big girl, I have to tell you some of the facts of life."

Lydia was embarrassed for her father, since she thought she had already known the facts of life for many years.

"You don't have to," she muttered.

But her father continued, "You know that in my youth I was a student of Mr. Cyrus Teed's. But you haven't heard what Mr. Cyrus Teed told me. A secret, revolutionary fact. He had discovered something that modern science still doesn't understand."

"What is it?" Lydia asked absentmindedly.

"That the earth is hollow," Father said.

This had no effect on Lydia. But then Father lowered his voice as if he didn't want anyone else to hear him, even though the two of them were at home alone, as usual.

"The earth is a hollow ball, and everything that exists is inside the ball," he said and gazed expectantly at Lydia.

"Inside? I don't think so," Lydia said, now truly surprised. "That can't be! It isn't written anywhere."

"Not yet!" Father said. "Not yet! But Cyrus Teed believed that before long it would get into all the textbooks. The whole scientific institution will be overturned!"

"And I suppose we're inside the ball too?" Lydia asked doubtfully.

"Absolutely," Father said. "There we are, along with all the planets and their inhabitants, suns and fixed stars, dust and invisible matter. The whole universe!"

"How can that be? What's outside the ball, then?" Lydia asked.

"What, out there?" Father said. "There's nothing out there. Why should there be? Other scientists have understood everything completely backwards. They imagine that we are standing on the convex outer surface of the ball. Hah! But in fact we're standing on its concave inner surface. Cyrus Teed was the first to realize that. A brilliant man!"

"But does that mean that, for example, China-"

"That's right," Father said. "China isn't under our feet, it's over our heads. Up there!"

And Father pointed toward the high, drifting clouds.

"Oh!" said Lydia, amazed. "In school we were taught something else altogether."

"If we had a powerful enough telescope," Father said, "do you know what we would see, Lydia?"

"Maybe the Great Wall of China," Lydia guessed.

"That's right!" her father said and clapped her on the back.

"What about gravity?" asked Lydia, who was a clever girl.

"You said it," said her father enthusiastically. "There's another fundamental mistake that has been made. We don't stay on the earth's surface because of gravity but because of centrifugal force. When we change the geometry of space, we also change the laws of nature."

"Well, then, what's in the middle of the ball?" Lydia asked.

"Infinity is there," her father answered.

"There?" Lydia asked. "How can it possibly fit in there?"

"Infinity can fit anywhere," Father said. "As we travel toward the center, everything shrinks and slows down, to infinities. Infinity is the essence of everything. Nothing is as small as infinity."

"Has Mr. Teed's theory been proved?" Lydia asked.

"It hasn't been disproved," her father said. "And it never will be, either."

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Proof that we Live Inside of the Globe

Koreshans' Startling Claim That Their Theory Is Demonstrated by Experiments and Surveys - Scientific Revolution to Follow.

from Chicago Sunday Times-Herald, July 25, 1897

Advocates of the theory that we are living on the inside of a hollow shell 8,000 miles in diameter, instead of on the outside of a convex globe now claim to be able to satisfy all who have asked for proof of the correctness of the theory. This strange astronomical system known as the Koreshan astronomy or the cellular cosmogony was originated and founded by Dr. Cyrus R. Teed of Chicago, and during the past twenty-five years has succeeded in making a large number of converts to the belief that all the popular theories concerning the character of the universe are fallacious, resulting from the failure to properly interpret observations of the most common phenomena of the heavens and the scope of our horizon. In the promulgation of the Koreshan system the discussion of the shape of the earth is revived: it is the most radical departure from the usual theories known to the world today - it is a complete antithesis. Consequently the methods pursued in the new cosmogony and the conclusions reached therefrom are decidedly revolutionary.

With the entire system reduced to a pivotal and specific test, and with the plans for making that test, a company of experimenters were sent on an expedition last December to Naples, Fla. where there is a straight coast for a number of miles, to practically apply the principles of the newly discovered means of testing the earth's contour. The work of the experimenting staff of the Koreshan theory is of interest to all from the simple fact that never before in the history of the world has such a geodetic work been executed. Whatever might be thought of the results of the series of surveys made on the Florida coast, the one fact remains that at least the plan is unique and original, seemingly embodying a number of simple geometrical principles which have been for some reason entirely overlooked in the usual lines of scientific research and geodetic survey.

The experiments and survey on the gulf coast were under the direction of Professor U.G. Morrow of Chicago, who has from time to time supplied The Times-Herald with a report of the facts observed and results obtained, and now gives a final summary of the results of his investigations, which if accepted will revolutionize science.

Propositions of the Koreshans

The main question involved constituting the basis of operations in the new geodesy is: Will an absolutely straight line surveyed in two directions from the vertical point of a perpendicular, and at right angles to that perpendicular, extend into space, the earth curvating away from that line, or will the lines converge to the water's surface at two points like the chord of a concave arc? It is claimed that this is the most direct means possible for determining whether the earth is rounded or convexed at its surface, or concaved as the inside of a hollow sphere, and if the experimenters have correctly applied the principles involved they have succeeded in making the first direct test of the character of the surface upon which we live.

On account of atmospheric refraction, the rays of light and vision are bent out of the true rectilinear direction, and consequently cannot be employed as a practical test. The apparatus used, called the rectilineator, is a mechanical contrivance for the purpose of forcing a straight line. The whole plan of the survey is clearly illustrated in the accompanying diagram, which explains itself. The survey began with the apparatus at an altitude of ten feet above the water's surface, making the basis of the figure eight miles instead of six, as first proposed.

If the earth curvates convexly at the ratio of eight inches to the mile, in four miles from the middle of the straight line chord or from the given perpendicular, the surveyed line would be twenty feet from the convex arc - the line would be that distance above the water at the end of the survey. On the other hand, if the earth curvates concavely, as the Koreshans claim, the line would come in contact with the water. Their object was to demonstrate that the line would "run into the water." They declare that the line surveyed on the gulf coast terminated in accordance with their expectations, in the water at the distance

of four miles from the given perpendicular.

How the Surveys Were Made

Along the line surveyed were fixed stakes every eighth of a mile upon which the altitude of the "air line" was registered as the survey progressed in order that measurements might be made, and afterward referred to, of the distance of the line above the water's surface. In this way it was proposed to determine whether or not the line approached the surface at the proper ratio, and the claim is made that upon no other kind of a surface than the concave could such relations and figures be observed and obtained, the lines approaching the surface in about the ratio of the calculated concave curvature. At the end of the first mile the "air line" was eight inches nearer the surface than at the beginning; second mile, about thirty-two inches; third mile, six feet, while at the end of four miles the line came in contact with water. Also at every eighth of a mile the ratio was along the same lines of progression. The results for even miles showing the aggregate result for the measured altitude of the line for the stations intervening. From these figures it may be seen that the ratio of concavity determined by these measurements very closely approaches the estimated curvature of eight inches to the mile. The ratio of descent of the line, the increases in the angles of deviation from the horizontal at stations of test with the levels, the length of the line surveyed from the beginning to point of extension into the water, as well as the direction of the plumb line at the various points, in consideration of the principles involved and the apparatus employed, all declare, it is claimed, the fact of the earth's concavity.

Scientists Challenged to Open Contest

It can easily be imagined what an impetus such scientific tests would give to a system if they were true. If it were admitted that the results of this survey so definitely define the direction of the earth's curvature as to entitle them to credence by the scientific world, the Koreshans would have a weight of evidence that would render that position impregnable. The future will reveal the validity or the fallacy of their claims, and judging from the line of work planned by the scientists of the new school they are not anticipating leaving the field to the criticism of the scientific world. Upon the strength of the results of the work of the expedition the founder of the system issues a general challenge to meet the advocates of the prevailing system, not merely in discussion, but in open contest upon the field of operations and experimentation. Corroborative of the results of the unique surveys, they claim to have a long line of facts of observation upon the surface of water itself, and the force of visible and tangible facts must be admitted to possess more weight with the people in general than platform arguments.

Concerning their attitudes toward the leaders of modern scientific thought, Professor Morrow says: "If the scientific men of the world today are as willing to test the truth of our propositions and results and results of our geodetic work as we are to meet them is demonstration of the premise of the Koreshan system, no difficulty will be experienced in speedily settling the question. We hereby extend to them the opportunity of demonstrating the earth's convexity and to destroy our premises or to establish the basis of the Koreshan cosmogony, and thus overthrow all conclusions of modern science. In this we are not clamoring for dispute, but inviting an impartial test of the facts.

Easily Susceptible in Decision

"There is not another issue before the world today in which the principles can be so specifically stated and pivoted upon one point of test, nor so susceptible of absolute decision, as this one concerning the concavity of the earth; because the water's surface cannot be changed, and no method of solving the question is so obviously certain as the one formulated in the Koreshan system, the results of which are now proclaimed to the world. We have employed a unique apparatus in the survey of an air line terminating into the water's surface as we proposed and anticipated before undertaking the survey. We employed a process of extension of a right line concerning which there can be no question. We eliminated the elements of refraction of light and incurvation of visual lines, as well as the effect of perspective foreshortening, but mechanically forcing a straight line, and thus settled the matter beyond dispute. The work was laborious, requiring much time and patience as yet the scientists have not been forcibly made aware of the weight of the evidence obtained. We were confident in the beginning of our work and from consideration of the principles involved and the results which would inevitably follow,

that we were projecting the greatest and most important geodetic survey of the nineteenth century.

"The importance of an undertaking is always measured by its ultimate results. On such a basis, we place the importance of our geodetic survey over against all the efforts of scientific men to determine the earth's shape, with all their appliances and apparatus of the very finest workmanship. We are not discrediting the geodetic work of the world: such efforts have their value, but the sequel proves that they are not of paramount importance. We are simply comparing success with failure - we have succeeded in accomplishing that for which they have labored for centuries, by the application of direct means of determining the earth's true shape. The great wonder of the hour, the startling fact now manifesting and forcing itself upon many rational minds is that outside of the ranks of recognized scientists there should develop a line of scientific work that eclipses all the efforts of the vast army of scientific experiments the world over.

"Nothing can now impede the progress of the Koreshan system: It is invincible. The world cannot long withstand the forces of the absolute truth, having for its foundation the indisputable facts of the greatest discovery of modern times. The facts we have observed and the lines we have surveyed demonstrating the earth's true form, are susceptible to test. We challenge contradictions, but our challenge will have to be answered upon the field of contest in the many lines of experimentation through which we have observed the facts we announce to the world."

A Great Revolution Would Result

The Koreshan scientists have taken the question out of the realm of discussion concerning various astronomical and cosmographical phenomena and placed it at least in an effort at demonstration. They claim that if the earth is really concave it places the usual explanation of the character of the orbs above the movements of the sun, moon and stars entirely on the side of absurdity, and the habitation of the planets impossible, because in such case, all phenomena would have to be interpreted in accordance with the ground or foundation from which astronomical calculations are made - the arc of the earth's curvature. It can readily be seen that if that arc should be concave instead of convex, the immense distances attributed to the planets and other heavenly bodies would have to be set aside and the stars brought to within a comparatively short distance above the concave arc.

It may be asked, what is the difference if the world is concave - in what way does it interest the public? In the event of success on the part of Koreshanity, many popular theories would be revolutionized. No other system ever put forth in the world has affected such decidedly radical changes in the channels of human thought and life as would result from general acceptance of the premise of the hollow globe theory and its resultant conclusions. It would turn the scientific mind into newer channels of investigation, reveal newer laws, and clear away numerous mysteries concerning cosmical form and function. Every domain of thought and investigation would be invaded by the new processes - in short, a startling, appalling and world-wide revolution would necessarily follow if it were proved beyond a doubt to the general mind that the universe is a great cell or shell containing forms of the highest realm of being, as well as all the stars, planets, sun and moon and atmospheres. Nothing could be more startling to the mind today than a vivid conception that the laws of universal existence and perpetuity have been discovered and all mysteries of the universe revealed through the knowledge of the earth's form and the relation of all its parts.

Koreshan Science and Theology

How would it affect the popular theology - what has astronomy to do with a concept of the Creator? All through the ages past astronomy and theology have gone hand in hand. All systems of theology have undertaken to incorporate an idea of creation and consequently the nature and extent of that which has been created. Wherever changes have been made in general astronomical systems they have resulted in changing the popular beliefs concerning theology and the processes by which the world was created and its existence maintained. The Koreshans say that if we admit for a moment that the modern scientific theories are untrue the conclusion is inevitable that to whatever extent the teachers of theology have been influenced by a false scientific theory, to that extent they have been led astray concerning the Creator; in such case they would understand neither the Creator nor his works. The influence of the

prevailing system of science has been universal. Perhaps no one has attempted to form a mental picture of the remote habitation of deity which the usual astronomical theory imposes without attempting to form some idea as to distance - the mind has endeavored to reach out into infinite space to touch the heart of the Creator, it has wandered into a great circumference of space. Koreshans maintain that God is the center and heart of creation instead of being its circumference.

Thus it would seem that the popular idea of God has been largely influenced by the prevailing theories concerning the immensity of the universe and the infinity of space. If the concept of the universe be so radically modified and revolutionized as to maintain the limitation of the universe to the dimension of 8,000 miles diameter, it is obvious that a corresponding change of concept of the Almighty must necessarily follow. Because of this Koreshans say that their system of science and their theology are inseparably connected and related - that in the discovery of the fact of the cellular form of the universe there has come to the world a definite knowledge of the laws of creation and consequently the laws of perpetuity of not only the universe as the effect of causes, but, also the means of existence of that cause. It is claimed that the physical universe is the natural and outermost expression of the divine mind, and that if the natural universe and its laws are understood they unmistakably indicate the character of the mind which expresses it.

Koreshans attempt to explain the great mystery of Deity scientifically. Hence the claim that the scientific theory of Koreshanity is the foundation or basis of its religion, which is claimed to be the revival of the primitive Christian system as it was taught prior to the declension and apostasy of the church. Koreshans claim to defend the Bible - that the Bible teaches that the world is a hollow sphere, the outermost metallic strata being the "firmament" of the old Testament - and that the Bible is scientifically correct in all its expressions. They hold that in the demonstration of the earth's concavity the inspiration of the scriptures is scientifically proved and demonstrated. They teach that the two great forms of expression of the mind of the Almighty - nature and the Bible - are to be read in harmony, because originating in the same divine mind. The argument is that nature is the result of cause, and is true - a true and tangible index to all knowledge of all life in all domains of the universe.

Scientific men are yet on the voyage of discovery and research, from which it follows that they have not yet definitely located the secret of the great cause of existence, nor yet satisfactorily explained the real purpose of the world. The founder of the Koreshan theory claims to have discovered that for which the thinking world is looking. If the leaders of the prevailing theories could be induced to critically examine the claims to such a discovery, or to come in contact with its advocates in open field of contest, so that a definite and satisfactory test could be made of the facts, as embraced in the possible determination as to which way the earth curves, it would undoubtedly reveal that either the scientists of today are greatly mistaken or that the Koreshans are promulgating the rankest and most absurd fallacy of modern times.

What Benefits Would Follow?

What is claimed to be the benefits to be derived to humanity through acceptance of such a system? It is one of the doctrines of Dr. Teed, its founder, that there is not a law in the universe that man cannot apply to himself when understood; that man is a microcosm, or small world, involving the functions of the world at large, and that to the extent that we mistake or apprehend what are the laws of the universe we fail to apply them. That when man can comprehend what are the laws and principles of universal construction and perpetuity he can adjust himself to universal being and become immortal. Man is held to be mortal and that he will continue to be so until he has so applied and fulfilled immutable laws as to overcome death and perfect himself mentally, spiritually and physically. The very kernel of the system seems to be the claim to the discovery of the long sought for "philosopher's stone," the science of transmutation, which is looked upon as the key to all knowledge.

In accordance with this promise, a great system of organic unity of human and divine co-operation is hoped for by the adherents to the Koreshan views. The laws of universal existence are sought to be applied to human affairs in the definition of the true science of government and political economy - it is claimed to be the beginning of the supreme theocracy expected by all Christians to be made manifest in what is termed the "second advent," and hence, the man originating system of Koreshanity has some personal claims as to knowledge of divine law, and consequently a mission to perform in the world

looking to the establishment of a system of salvation of humanity from the present conditions of evil and mortality through the institution of a new order of life, an organic system correspondingly fashioned after the general universal order of the great cellular form which is held to incorporate all there is. Koreshans say many people have misunderstood the claims of Dr. Teed. His system is intricate, necessitating study and investigation to comprehend his mission: it is insisted by his followers that his claims are the rational claims of the true scientist. Those who have been engaged in the work of scientific experimentation hold that in the practical proofs of the correctness of the Koreshan cosmogony all the scientific, religious, ethical and economical principles of the entire system are conclusively demonstrated to be true.

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