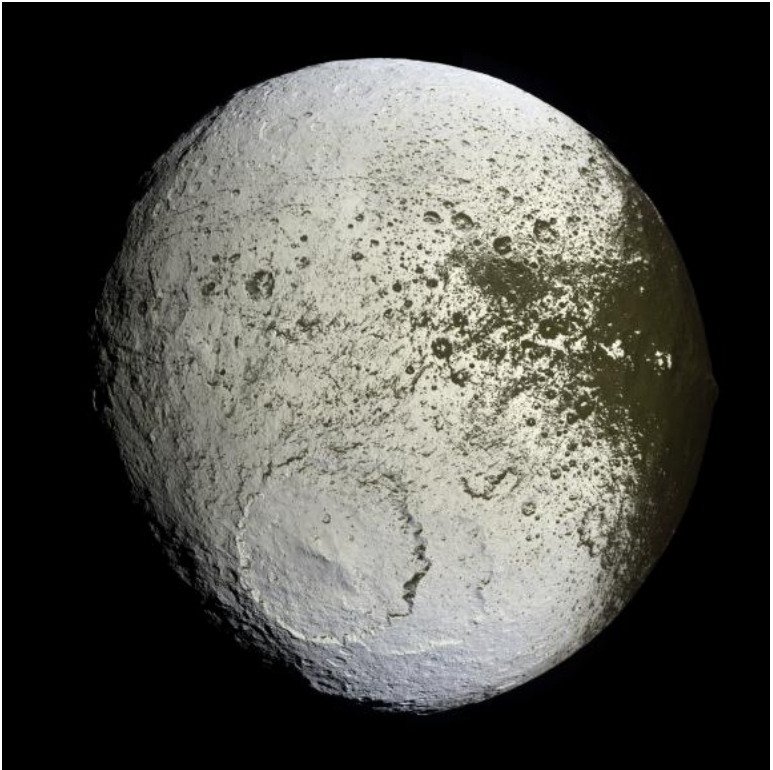


VOLUME 19

NUMBERS 129 & 130

**THE
BIBLICAL
ASTRONOMER**

SUMMER AND FALL 2009



PRODUCT LIST

(Continued from back cover.)

The Gravitational Analog of a Rolling Ball on an Elastic Membrane, J. Hanson. The underlying mathematics and physics is presented for simulating gravitational trajectories by a ball or disk moving on an appropriately deformed elastic membrane. \$8.50

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Front Cover: Saturn's moon, Iapetus, shows a splatter pattern at the boundary between its dark and bright hemispheres. That one side of Iapetus is much darker than the other has been known for about 200 years and has now been solved. See page 89. (Courtesy, NASA).

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EDITORIAL

Erratum

In the Spring 2002 issue of the *Biblical Astronomer*, on page 80, we quoted a sentence attributed to Dr. James R. Paulson, Prof. of Biochemistry at the University of Wisconsin at Oshkosh. Here is the 2002 quoted version of the quote: “The evidence for heliocentrism is even weaker than the evidence for evolution.” It seems that the quote was out of context, for Dr. Paulson wrote this in rebuttal:

This “quotation” takes out of context something I wrote and constitutes a gross misrepresentation of my views. You may have even altered what I wrote, so I would be interested to know your source. [I do not recall who submitted the quote, —*Ed.*]

My view is that the evidence for Darwin’s theory of evolution is extraordinarily strong—it can be considered proven far beyond any reasonable doubt. It has been confirmed more often and more extensively than any other modern scientific theory except perhaps quantum theory.

By leaving out the context, you missed the sarcasm in my statement. My point was that if anyone is so unreasonable as to reject evolution, they ought to reject other scientific theories as well. This was a jibe at certain self-proclaimed “creation scientists” who reject the evidence for evolution totally on religious grounds but still pretend to be scientific. They become irate if anyone suggests that they are “flat earthers” or “geocentrists”—they feel that they are being made to look ridiculous, which indeed they are.

You too are free to persist in your ridiculous beliefs. Perhaps you get some comfort from them.

However, I request that you either remove my name from all of your websites and publications, or print what I wrote in full, instead of misrepresenting it by taking it out of context.

I am delighted to print Dr. Paulson’s explanation, and as far as I am concerned, Dr. Paulson is perfectly free to persist in his “ridiculous beliefs” that one day a lizard laid a clutch of eggs that hatched into birds, or that a mouse once bore a litter of rat pups. I, for one, do not hold my beliefs on “religious grounds,” as Dr. Paulson states it. My Bible teaches me that:

Pure religion and undefiled before God and the Father is this, To visit the fatherless and widows in their affliction, and to keep himself unspotted from the world. (James 1:27.)

I fail to see how that definition of religion forms the foundation of my opposition to evolution or opposition to any other scientific theory. Nevertheless, we extend our apologies to Dr. Paulson for overestimating his intelligence.

A Double Issue

So far we have produced two issues of the *Biblical Astronomer* this year. We've always printed four since the renaming of *The Bulletin of the Tychonian Society* into the *Biblical Astronomer* in 1991. This year, we are two issues behind.

It is not for lack of material that we are behind, albeit support is down a bit. The money has been there nevertheless. The prime inhibitor delaying publication has been my work on the next edition of *Geocentricity*. New chapters have been added, material has been consolidated, new perspectives have been introduced, and wrong-headed science has passed away to the land of hopefully-forgotten-errors.

Introducing the History of Geocentricity Book Series

Some of the fruit of the revision of *Geocentricity* is evidenced in this issue with the introduction of the *History of Geocentricity Series*. Elsewhere in this issue we list the books we plan to reprint and make available. The first book, Tischner's 1885 book, *The Fixed Idea of Astronomical Theory*, is at the printer. The book should be available by the time you read this for \$20 including priority mail postage. For more information about the book, read the article.

The Definition of Force

Closing out this issue is an article by Jim Hanson. It is a highly technical but significant article. The article derives the generalized force equation. Whereas Newton introduced force as the product of mass and acceleration ($F=ma$), the geocentric definition of force includes that definition as well as adding the Coriolis, centrifugal, and Euler (spin) forces. These are usually derived using a technique that starts with a definition and then uses that definition in a circular fashion by substituting itself into its derivative. Doing so is a subtle form of circular reasoning. However, it works; it gives the observed result. Jim

gives an alternative derivation which he perceives as a bit better than what is in the classical literature, but still rather weak in proof or logic.

The problem Jim wrestles with is inherent in what *we do not know*. We don't know what constraints God created in the firmament that make the three "fictitious" forces (centrifugal, Coriolis, and Euler), visible to—but not felt by—an observer affixed to a different coordinate system. To solve the riddle we need to know more about gravity and its relationship to the firmament. What is gravity? And Einstein's answer, "curved space," is a side-step, not an answer to that question. All Einstein's curved space does is to change the question, "What is gravity?" to "What curves space?" The answer to the latter question is *gravity*. Perhaps the Lord will be gracious to us in this quest and give us the answer in this life. And maybe these things can only be perceived with spiritual eyes. As Dean Turner once asked,

The ultimate strategic question of modern science is this: At what point should one acknowledge that scientific explanation has gone as far as it can go? That is, at what point ought a theistic philosophical explanation be accepted as a satisfactory one where no merely empirical one appears possible?¹

If we answer Turner's question with "Never!" as today's science does, we shall never know anything for certain.

Word Wars

In both the Readers' Forum and in the article, "The Great Liar," I present an inside look at the kind of battle that is waged against some unscrupulous opponents of geocentricity. At thirteen pages, the latter article takes up more space than I would like but I would like you to see the lengths to which some people will go to escape the geocentric Bible. It may help you to pray better for me as I face my daily email inbox. I hope you will also get some insight into the minds of our opposition.

Some New Books

In addition to the historic reprints, we are offering a book entitled *Thou Shalt Keep Them: A Biblical Theology of the Perfect Preservation of Scripture*. This book is the best I have read in defense of the King James Bible in the areas of preservation, revelation, and textual consid-

¹ Turner, Dean, 1979. In Turner and Hazlett, eds., *The Einstein Myth and the Ives Papers*, (Old Greenwich, Conn.: Devin-Adair Co.). "Einstein Myth," p. 93.

erations. The book is a collection of 22 papers, six of those papers are authored by Dr. Thomas Strouse who is well known to our readers as a defender of geocentricity from English, Hebrew, and Greek scriptures. The papers are separated into major categories which are titled:

1. Passages on Divine Preservation
2. Passages on Availability
3. God's Methods of Preservation
4. Passages on the Reality of Textual Attack
5. The Standards of Perfection: Several Passages as Examples of Doctrines Changed or Perverted by Textual Alterations
6. Other Pertinent Exegesis for Every Word Preservation
7. The Doctrine of Preservation as it is Related to the Doctrine of Separation
8. Addenda

One interesting perspective developed by the papers is the concept that traditional Bible believers see the Bible as a revealed book, a special revelation. Modern textual critics, on the other hand, see the Bible as a lost book that scholarship needs to recover and reconstruct by searching after the long-lost originals.

The price of the book is \$20 postpaid in North America and \$30 postpaid elsewhere.

Another book we have added to our list of books for sale is *Why Cumbereth It the Ground?* by Kenneth T. Brooks. This book, a critical evaluation of Fundamentalism from a scriptural perspective, examines its motives and methods and exposes why Fundamentalism has been ineffective in achieving its goals. The author is a graduate of Emmanuel Baptist Seminary of which Dr. Thomas Strouse is dean. His son, Aaron Strouse, wrote a supplement for the book. More information about both books may be found on the geocentricity.com web site. Pastor Brooks' book is \$17 postpaid in North America and \$27 elsewhere.

READERS' FORUM

The Critics Rave

Below is a collection of emails from critics and fans of geocentricity. All are sic: saved in copying.

From Joseph G.

I thought that the ideas (theories?) espoused by The Flat Earth Society were dumb but you people are so far out that I find it difficult to believe you are even smart enough to breathe much less have the capability of forming an intelligent thought. Geocentricity is plainly absurd as are most of the faulty and superstitious teachings in the Bible, the Torah and the Koran.

From Stig H.

Your book *A Geocentricity Primer* is the most preposterous pseudoscientific gibberish I've ever read. The section about the Firmament is beyond comprehension and borders on lunacy.

Ted W. to Dr. Bouw

Sir, I read your book and greatly enjoyed it! I am a Christian and this has greatly interested me since I always thought the earth spins around the sun. can you explain were the planets are in relation to the earth in this model, and how do you account for the vast distance from earth to mars? what about all the stuff were getting about mars what if man does get there someday? Is man confined to earth? We have already been to the Moon?

Dr. Bouw to Ted W.

In the modern geocentric model, the sun, planets, comets, asteroids and so forth orbit the sun. After all, the Bible says that the sun rules the day, and the day is defined as anyplace reached by sunlight. Likewise, the night is defined as any place not reached by sunlight, particularly, the cone of darkness which is the shadow of the earth and that is called the moon's "umbra." So for the most part, the model you learned in school is correct except that the earth is not a planet.

The earth is located at the center of all the circular motion of all the objects in the universe. Astronomers would say that the earth is at

the "barycenter" of the universe, the point where any hemisphere of the universe would balance the other hemisphere.

As for the distance to Mars, moon, or to any planet, star, galaxy, or even to the edge of the universe, those distances are simply how large God made them. Clearly, if the heavens declare the glory of God; and the firmament sheweth his handiwork as Psalm 19:1 says, the larger the universe compared to the earth and man, the greater God's glory.

The earth was made for man and the sun, moon, and stars were made for earth, to give light upon the earth (Genesis 1:15) and to be for signs and for seasons to men. Man was commanded to subdue the earth which means that part of that command is extended to the astral bodies. God has made it very difficult for man to survive in space, but he also made it difficult for him to survive in water; yet we can do that with our technology that God has made available to us. In like manner, there may be a technology that God will make available to us in due time which will allow us to live safely in space. The Bible does speak of men setting their nests among the stars (Obadiah 1:4) and drawing his elect from the ends of heaven (Matthew 24:21), which suggests some sort of space travel; perhaps with spiritual bodies instead of physical ones.

I do believe that we have gone to the moon. I have seen no convincing claims countering the Apollo missions. All claims are all based on speculation, quotes out of context, and unphysical or exaggerated claims about things like the van Allen belts, for instance. To receive a fatal dose of radiation in the van Allen belts (500 REM), an astronaut would have to spend 13,888,000 hours in the belts traversed en route to the moon. For comparison, there are 8,766 hours in a year.

When is a Myth a Fact?

This is a long exchange of emails. Note that people who have obviously never read the Bible think they know everything about it. The exchange is between Ed M. and yours truly.

Ed:

I received some material in the mail and visited your website. I am contacting you to clarify whether your contentions regarding geocentricity are simply a put-on to fool (or make fun of) the gullible... or whether they represent true beliefs.

I have long been interested in how some people, seemingly rational and reasonably intelligent, can hold views that would be considered preposterous in the context of what we know about the world... i.e.

for example, essentially denying the essence of science in favor of myths and fables assembled by self-serving functionaries in a church anxious to build a centralized hierarchy over a thousand years ago. If you are sincere in your beliefs re geocentricity I would be interested in interviewing you. Some questions would regard the inerrancy of the Bible and how one would come to the conclusion that it represents the word of God.

If you would be interested in discussing your views please contact me.

GB:

It is my position that geocentricity is the true physics of the cosmos and that Copernicanism was designed to fool the worldly wise. The essence of science is to hypothesize and test, and in the case of the modern heliocentric model, the fundamental experiments of the nineteenth century all failed to find the orbital motion of the earth. Instead of accepting the geocentric model, however, hypothesis was piled atop hypothesis to keep the earth orbiting the sun. The result is the General Theory of Relativity, which makes every object in the universe, even the most wildly gyrating and oscillating nuclear particle, look like it rests at the center of a wildly gyrating and oscillating universe. There is no money to be made in geocentricity. People buy fiction, not truth; thus says the second law of thermodynamics. So there is no profit here from fooling the gullible; they have already spent their money on iTunes, videos, dope, booze; virtual realities all: the lotus-eaters.

Anyhow, that is my perspective.

Ed:

I strongly suggest that you acquaint yourself with the science of astronomy... maybe starting with Copernicus and Kepler and move onward to Einstein.

The Bible was never meant to be the "equivocal or inerrant truth of God" as you suggest. The authors at the time (about 100 years after Jesus died) were merely trying to organize recorded stories and myths about Jesus (gospels) into one grouping for the sake of church unification or hierarchy. The Christian charlatans of late peddle such nonsense for monetary gain. (Beware the deceivers and keep your hand on your wallet.)

You might also want to study a little Biblical history and the works of the many people who have studied the Bible.

GB:

I think that with a Bachelor of Science degree in astrophysics from the University of Rochester (1967) and a Ph.D. in astronomy from Case Western Reserve University (1973), and as one of the few amateur cosmologists in the world, I am acquainted with astronomy and the physics of planetary and cosmic motions. (Check with the universities. The name on my diplomas is Gerardus D. Bouw and I gave you the years above.)

When it comes to the Bible, I published a book on Bible and textual problems and was invited to and have spoken in Europe, Asia, and Australasia, all on paid tours. Jesus said, "Thy word (the Bible) is truth." In the past 33 years I have read the Bible from cover-to-cover more than 20 times. The reason why it is so few times is because each reading was in-depth, comparing scripture with scripture. I suggest you read a King James Bible from cover-to-cover yourself (all other versions are counterfeit) and that you read Sir Fred Hoyle's book on Copernicus for the insight you are lacking in historical versus modern astronomy.

By the way, the Association for Biblical Astronomy has existed for 37 years and in that time has been in the black at the end of a year only twice. So much for the money that you think drives me. If you want to make money you have to come up with REAL crackpot ideas, such as the quest for the historical Jesus, moon-landing fraud claims, conspiracy claims, anti-Semitism, only-the-original-autographs-are-inspired heresy, new Bible versions, or insipid "Christian" music, and write positive books and preach positive messages such as the blasphemous Joel Osteen, Westcott and Hort, Bob Jones III, Dallas Theological Seminary, etc. There are your Christian charlatans. The Bible says that the praise of this world is enmity with God. Selah.

Ed:

I find it hard to believe that with your seemingly good education you could allow your mind to essentially discredit much of our science and understanding of the world around us. Do you believe that we visited the moon or that the Hubble telescope exists?

Regarding what Jesus "actually" said we will probably never really know. The gospels which some profess to convey his words were written hundreds of years after his death by numerous authors often contradicting each other while their content was passed along via hearsay and rumor. I think most Biblical scholars agree that Jesus existed and was an influential leader and charismatic speaker and most importantly implored people to know themselves, develop principles,

and be true to those principles. Also most would agree that Jesus contended he was part of the transcendental spirit like all forms of life on earth.

Humans have been creating myths to explain what they fail to understand since the beginning of recorded history. Unfortunately we have an inherent tendency to occasionally accept these myths as fact and then even war over which myth is superior.

I have a background in math, chemistry, and physics and know that the more I "understand" the more mystery is revealed. We basically know very little about our existence on this planet, but I "believe" that the "transcendental spiritual forces" if they care at all would want us to use our intelligence to the best of our ability.... and not succumb to the temptation of accepting myth as fact.

GB:

I know we went to the moon, and Hubble is real.

The Bible says that God will preserve his words; all you have to do is use your head to find it. It's not hard. Consider the stupidity exhibited by those who claim we can't know what Jesus said or did. First, they claim that only the original autographs are inspired. Then they claim that God could not preserve his words, so we no longer have the inspired text. **FIRST IDIOCY:** "are inspired" is present tense. If they no longer exist, they WERE inspired. Next, they say that since God was not able to preserve his words from corruption by HONEST MEN (I kid you not), it falls on them, the only-the-original-autographs-are-inspired-crowd, to recover the "lost" text. Now think about that for a moment. **SECOND IDIOCY:** an omnipotent God was not able to preserve his text from corruption but NOW needs those idiots (theologians) who cannot get their tenses right to labor in word and doctrine to help God out in recovering that which God did not think worthy enough to use his omnipotence to preserve. **THIRD IDIOCY:** people who have never read the critical bible text, let alone the preserved Bible text, make grandiose claims about the Bible. They claim that the Bible was written hundreds of years after Jesus, even though the men who wrote and all physical and historical evidence say otherwise; or they claim that the Bible says some things, *e.g.*, that his words contradict one another, or that Jesus claimed he was part of the "transcendental spirit" no different than all forms of life on earth, which claims are easily falsified by actually **READING** the Bible, even a corrupt modern version. Who is it that accepts myths over fact in these cases?

It's a matter of faith, isn't it? Who does one believe and what does one believe? To me, this makes perfect sense: Nothing, as a thing, can have no properties. It cannot have size, intelligence, knowledge,

etc. and it certainly cannot have the property of existence. Thus, if nothing cannot exist, then the inverse of nothing must exist. The properties of the inverse are: infinite size, infinite intelligence, infinite knowledge, etc. That is, logically, God exists. The question then is which of the pantheon of fabled gods is THE God. You can weed out the gods by looking at their properties. (Note that "nothing" can have neither the property of goodness nor badness. That means that these are created properties, properties that are finite, not infinite, and thus God's goodness is seen as frowardness to the froward and goodness to the upright in heart.)

Ed:

If god wrote the bible with the help of humans, why would he have written such preposterous jibberish that often contradicts itself and is loaded with acts of seemingly random violence and meanness?

Do you believe the stories about a guy living in a whale and the one about noah and the flood or that the earth and all life were created within last 10,000 years?

Most who have studied the work believe that the bible was written as a collection of myths and stories to illustrate morality as it existed thousands of years ago... it was never meant to be taken seriously. Don't be fooled...

GB:

Yes, I believe them. Do you actually believe the stories about the chemical soup that accidentally turned into a man and a woman as it simmered for millions of years? I don't. You won't have to worry about spending eternity with that mean, violent, preposterous God, will you? If God is a myth, then why does it get your dander up? Who cares?

Ed:

I guess I care because it is painful to watch adults behave like children. Did not someone once say that as you mature you put away childish beliefs. Since beginning of recorded time humans have created myths about phenomena they could not understand. If Jesus were to see what we are now doing and saying in his name he would no doubt sicken. These myths have over the years done much more evil in terms of misery for all life forms than good. And if there were wise, omniscient, metaphysical spiritis/ beings, would they not want people to use their "god given" brains?

"the second law of thermodynamics says that the truth will not be believed by most men."

The second law of thermo states no such thing ... it merely states that entropy in a complex system increases with time.

"You're a fool if you believe evolution, whether you believe in God or not."

Why is it then that the fools seem to generally accept the biblical prophecy that the earth is the center of the universe and that gods created all life in seven days? What could be more foolish than that?

Have you ever really given serious thought to your "beliefs"?

GB:

I used to be an atheist. Does that answer your question about giving serious thoughts to my beliefs? Jesus does see what is being done in his name and against his brethren. That's why he put liberals in charge of us (Isaiah 32:5).

Look, I know that atheism does not make one a "bad" person. Nor does being an atheist mean you hate God; God merely becomes irrelevant. You love your family as much as any believer in God.

The Bible defines a hater of God as anyone who bows down or (OR, not AND) serves a graven image (2nd commandment). Theologians converted me to atheism by their infidelity; traditionalists, always opposing science and then 30-odd years later cowering to science claiming "the Bible knew it all along, we just misinterpreted it." To you they may be the bulwark and final authority of Christianity, but to me they are nothing but a pack of microcephalic antichrists whose sole talent is to blaspheme the God of the Bible. If that is what Christianity is to you, I stand with you in your opposition.

The God of the Bible does not tell Christians to go out and make believers by force, threat, lies, or war. That's the god of salvation-by-good-works, of state-run churches that make the state to be "THE god." The God of the Bible says that the penalty for sin has been paid once and for all. The sins of the whole world were left on the cross of Christ, and God resurrected him from the dead to vouchsafe the payment. Thus, anyone who now says that good works are still needed is a liar.

The Scripture says we are saved unto good works. The word "unto" means we cannot help but do good works. Modern versions, put out by modern Pharisees, say we are saved "for" good works, implying that the works are more important than people, even God's people.

That is why Jesus called the Pharisees "hypocrites" and a "generation of vipers." If that is why you are an atheist, you have good reason. I would still be an atheist, too.

Re. entropy, I was referring to Boltzmann's statistical and Shannon's informational discoveries as they relate to the mechanical definition of entropy. See, even you have trouble believing its more general form, as Boltzmann foresaw.

Re. God's role in creation. Jesus (God in the flesh) said, "I am the way, the truth and the life." Back in 1972, at the annual meeting of the American Association for the Advancement of Science, there was a paper presented in the neutron star session that reported that at the surface of a neutron star, neutron-forms arise that act like molecules. The author speculated that "life" could evolve on the surface of neutron stars. Well, similar situations arise in the big bang. Furthermore, we are dealing with reaction on nuclear time scales, not molecular ones, so life would have evolved much more quickly, in seconds instead of billions of years. So, if life is inherent within the first seconds of the big bang, then why not extrapolate it back a couple of seconds and say life is inherent in the creation or formation of the universe itself? That got me to pondering the possibility that there might, just might, be a creator God. Thus I started my quest to find him, if he existed at all; and find him I did.

But science is more fallible than a King James Bible; this I know. The science of 150 years ago is today's joke.

Anyhow, find the limitations of science and your understanding, and you will have more understanding than all your teachers.

Ed:

I am not an atheist.. The more I have discovered regarding the world around us the more I have discovered that we know damn little. I am keenly aware of this unknown and understand its infinite possibilities...but am not arrogant enough to say that I believe things that I do not know or understand. You can call this huge "unknown" Harry or God ... but do not try to define what you are not capable (as a mere human) of understanding. I think there may well be a transcendental force or power that permeates all life... but due to my limited knowledge and unwillingness to define what I do not know, that is as far as I am willing to go... so I guess that is "agnostic" if one was forced to classify.

GB:

Don't you see that you are guilty of the very arrogance you accuse

me of; namely that you are humble in your stance and I am arrogant in mine? That is always the case, in any accusation, according to Romans 2:1. I know what I have experienced, but you have not experienced what I have in the realms of Bible, science, and faith. Yet you insist that what I experienced is an impossible myth solely on the grounds that you have not experienced it. All this to avoid reading a King James Bible and doing a bit more homework on the matter of geocentricity. What do you fear losing? Is truth the enemy?

Murphy's Lesser-Known Laws

He who laughs last thinks slowest.

Nothing is foolproof to a sufficiently talented fool.

Those who live by the sword get shot by those who don't.

The 50-50-90 rule: Anytime you have a 50-50 chance of getting something right, there's a 90% probability you'll get it wrong.

The things that come to those who wait will be the things left by those who got there first

The shinbone is a device for finding furniture in a dark room.

A fine is a tax for doing wrong. A tax is a fine for doing well.

Give a man a fish and he will eat for a day. Teach a man to fish and he'll sit in a boat all day, drinking beer.

When you go into court, you are putting yourself in the hands of 12 people who weren't smart enough to get out of jury duty.

Bulletin Bloopers

Potluck supper Sunday at 5:00 PM - Prayer and medication to follow.

The eighth-graders will be presenting Shakespeare's Hamlet in the church basement Friday at 7 PM. The congregation is invited to attend this tragedy.

The Low Self Esteem Support Group will meet Thursday at 7 PM. Please use the back door.

THE GREAT LIAR

Introduction

I thought that you might like to see an example of the battles I face defending both Scripture and geocentricity. I have often reported that the most vehement opposition comes not from atheistic scientists but from professing Bible believers. That such is the case is not surprising, after all, the devils believe, too, and they tremble (James 2:19). Scripture calls such people *froward*. Please pray for me, especially that I may use more Scripture in my technical replies.

The exchange presented here is longer than average, and it covers a lot of territory. There is a verse in the Psalms that says, “The wicked are estranged from the womb: they go astray as soon as they be born, speaking lies.” (Psalm 58:3.) According to that verse, lying, to the wicked, is as natural as breathing. More: to the wicked lying is a necessity of life.

I am reminded of the debates I had with Marxists, Socialists, Liberals, and Communists in the 1960s and 70s, whose mantra was that the ends justify the means, even if it means you have to cheat, steal, lie, and kill to bring in the kingdom of the great Satanist, Karl Marx.¹ When they uttered such a lie, I would say, “You know that’s a lie.” Depending on the degree of the Communist’s commitment to the Communist religion, I would be greeted either by sheepishness or by anger. I would then ask, how do you know that the thing that convinced you of Communism wasn’t a lie? The response was, “It does not matter.” The ends justify the means.

Marxists use a technique called the *Hegelian Dialect* to argue. The technique has absolutely nothing to do with the truth. It has everything to do with consensus building through terror and intimidation, and twisted logic.

For an example of Hegelian dialect, consider: if my idea of freedom (the thesis) conflicts with your idea of freedom (the antithesis), then neither of us can be free until everyone agrees to be a slave (the synthesis or “whole,” as Hegel called it). So slavery is freedom in Hegel’s twisted logic.

You will note that the heliocentrist antagonist in the correspondence uses Hegel’s techniques to win his arguments among his disciples. Lying is as natural to that man as breathing.

¹ Wurmbrand, Richard, 1976. *Was Karl Marx a Satanist?* (Glendale, CA: Diane Books Publ. Co.).

The Correspondence

That the ends justify the means is also used against the preservation of Scripture, creationism, and geocentricity. I thought you might like to see it at work in detail. Thus the following dialogue is with someone whom I shall not name but since he esteems himself to be "the Great Shepherd," I shall call him "the Great Liar." Where necessary in the exchange of emails I shall insert a commentary. The self-professed "Great Shepherd's" words and style will be preserved throughout, without change lest I be accused of misrepresentation. The exchange took place in early 2009.

The Great Liar:

Promoters of the "Fixed Earth" write that Geostationary Satellites are "PARKED in a STATIONARY position 22,300 miles (35,900 km) above the equator of the STATIONARY earth". (Niall Kilkenny). I have emphasised the word "STATIONARY"

I would be grateful Dr Bouw if you would kindly explain how you reconcile "The Fixed Earth" promoters assertion that the Geostationary Satellites are "STATIONARY", with NASA's and other statements that the Geostationary Satellites are NOT "STATIONARY" but that they "Travel at the same direction and speed as Earth revolves" (Extract from The Internet Encyclopedia of Science) at:

http://www.daviddarling.info/encyclopedia/G/geostationary_orbit.html

Are the people at NASA and The Internet Encyclopedia of Science lying? I await your kind early reply

Commentary:

The challenge of the geostationary satellite against geocentricity is common enough. The second question, who is lying? is a bit strange but is typical from visitors coming from Marshall Hall's or Neville Jones' web sites. Both men claim that modern scientists deliberately and systematically deceive the public. That is simply not true. There are deceivers but deceivers work more subtly. For instance, Galileo ran into trouble with the Roman Church because he insisted that the Church recognize the Copernican theory as a proven fact. Galileo had every reason to know that he was insisting that the Catholic Church accept a lie. Until long after Galileo's death, all the astronomical evidence supported the Tycho Brahe's geocentric theory, not the heliocentric theory

of Copernicus. Thus, when the Roman Catholic church reprimanded Galileo for his impertinence, she was correct. Likewise, Copernicus knew his theory is blasphemous heresy against Scripture. That is why he hesitated to publish it until he knew his death was imminent. To justify his heresy, Copernicus lied when he challenged the Bible's authority over science with the claim that the heliocentric model is much more *worthy* of God than the Scriptural view. Liars deal with half-truths and appeals to supposed experts to intimidate the mark; liars do not deal with facts and evidence.

Einstein lied when he insisted his theory was the only one to explain certain phenomena, such as the Michelson-Morley experiment and the perihelion precession of Mercury. There were many other theories that explained these phenomena equally well or better. Hence, I crafted this reply:

Bouw:

The geostationary satellites are stationary relative to the surface of the earth but they are not stationary relative to the stars. There is no conspiracy; it's a matter of one's point of view. Whether the earth rotates on its axis once every 24 hours or the fabric of space, which I call the firmament, rotates in the opposite direction makes no difference according to General Relativity. The differences between the geocentric model and the modern acentric one are:

1. The geocentric model cannot ignore the existence of the universe; the heliocentric model assumes that the universe can be ignored.
2. The heliocentric definition of force is $F=ma$ and then adds the "fictitious forces" of Centrifugal and Coriolis "effects." The geocentrically-derived statement of force is $F=ma + \text{centrifugal force} + \text{Coriolis force} + \text{Euler force} + \text{some additional terms including a quantum term}$. In geocentricity, the "fictitious forces" are real, gravitational forces, commonly called "inertia." The Euler force deals with rotation, including the binding of a 24-hour rotation of the universe about the earth.

Thus both theories account for ALL the evidence and neither can be proved nor disproved. The advantages of the geocentric model are that it is comprehensive to start with, has cosmic inertia built in, and avoids the cosmological difficulties associated with parallel universes. The advantages of the heliocentric model is

that it is a quick-and-dirty model, good to second order which is pretty much all we need for computational accuracy and because its definition of force is *ad hoc*, you can pick and choose whatever terms you like without having to account for the others unless an experimental result demands otherwise.

The Great Liar:

I thank you for your quick response, but you did not answer my straight forward non-technical question which I repeat, once more: Are the people at NASA and The Internet Encyclopedia of Science lying when they state that "Geostationary Satellites are NOT "STATIONARY" but that they "Travel at the same direction and speed as Earth revolves" (Extract from The Internet Encyclopedia of Science)?

May I again respectfully point out that the answer I am expecting to receive from you is either (1) Yes! they are lying or (2) No! they are not lying. I accept the definition of "lying" as "the deliberate act of deviating from the truth"

Commentary:

Note the Great Liar's self-avowed definition of lying, "the deliberate act of deviating from the truth." It will come into play later on.

The Great Liar ignores my answer to the first—the technical—question and transfers the adjective, "technical," to his second question which is not at all technical but asks only for an opinion. At this point it is clear that the Great Liar is not asking for my opinion, or for information; his mind is closed. The Great Liar has no response to my answer to his first question and is too lazy to argue it, so he set up a two-choice Hegelian thesis-antithesis-synthesis trap to a matter that has four possible choices, not two, *viz.* 1) yes, 2) no, 3) the geocentrists are deceived, and 4) the heliocentrists are deceived. His hope is that the mark, (yours truly), is not wise to his game. By allowing only choices 1) and 2), as thesis and antithesis, the synthesis is that I am the liar, no matter which of the two I chose. If I chose 3) or 4) I will be accused of either dodging the question or of lying. Clearly 3) and 4) exonerates people from deliberately lying, albeit they unknowingly propagate a lie. For possibilities 3) and 4), if I, as an ignorant promoter of the geocentric model, or the Great Liar, as an ignorant promoter of the heliocentric position should be convinced otherwise yet persist in promoting the false idea, that person is a liar. We see then that by allowing all four options I cannot help but include the truth while the Great Liar's insistence that 3) and 4) are not allowed brands him as a deceiver, regard-

less of his position. People like the Great Liar hate truth with a passion. The result is perfectly predictable. I will be branded a liar and, if I try to reason, my Christian integrity will be challenged. That is the nature of Hegelian dialectics. So, let us bite.

Bouw:

I'm sorry; I thought you would understand that when I said, "There is no conspiracy" that it meant "No! they are not lying."

The Great Liar:

Dr Bouw Thank you for your plain reply that "the people at NASA and The Internet Encyclopedia of Science" are "not lying" (Dr Bouw) when they say that "Earth revolves" (Internet Encyclopedia of Science). Then it follows that 'Fixed Earth' promoters such as you are lying because you say that "the earth does not revolve" isn't that so?

Commentary:

There it is. Options 3) and 4) do not exist. Note the words he added in quotes, as if I had written them. I wrote, "No! they are not lying." There is nothing wrong with the Great Liar's adding "the people at NASA and The Internet Encyclopedia of Science" except that when he puts them in quotation marks, he puts them into my mouth. Notice, too, that when the Great Liar writes, "Then it follows that 'Fixed Earth' promoters such as you are lying because you say that 'the earth does not revolve' isn't that so?" he 1) conveniently forgets his dictionary definition of lying as "the *deliberate act* of deviating from the truth" (emphasis added) which I quote in his first response, and 2) he changes the subject. In his first email he asked about the relative rotation of earth and cosmos, not the revolution of the earth about the sun. Although I agree that the earth does not revolve, there is no phrase, "the earth does not revolve," in any of my emails to the Great Liar. Again, this is an abuse of quotation marks, putting words into my mouth by pretending that they were part of our correspondence. Or else the Great Liar is ignorant of the difference between rotation and revolution, in which case he is in no position to judge so technical a matter as geocentricity.

My reply rubs his nose in his own definition of lying and must precipitate an emotional, off-the-subject, unreasoned reply:

Bouw:

Sorry, in good faith I was using your definition of lying, which was “the deliberate act of deviating from the truth.” The encyclopedias, elementary texts, and most of the people at NASA (with some exceptions) parrot the party line in ignorance, which is not lying unless they also claim to have done their homework, at which point they are lying, at least about having done their homework. So it does not follow that I am lying.

The Great Liar:

Dr Bouw You neither believe "the people at NASA and The Internet Encyclopedia of Science" and impugn their integrity and even claim to being superior to them and contradict yourself over and over again in your emails to me. But MORE SERIOUSLY you Dr Bouw also "LIE" (Revelation 22:15²) because you have no qualms about dishonouring the Creator and despise and trample on and corrupt His blessed words as recorded in The Jewish Tanakh, such as those written in Ecclesiastes 1:5:³ "The sun also appears (Hebrew: zarach) and the sun fades (Hebrew: ba'a) and and desires (Hebrew: sha'aph) its place where it appears" (Hebrew Tanakh. Ecclesiastes 1:5) I will be publishing on the Internet the substance of our exchanges concerning the deceptions of the UNREPENTANT Dr Gerard Bouw et al.

Commentary:

Apparently, the NASA and the *Internet Encyclopedia of Science* writers know more astronomy than do I, although most such authors are technical writers who were journalism majors in college, not science majors. This is especially true of authors of introductory texts which rarely know the text's subject matter to any depth.

I am said to contradict myself “over and over again in my emails” but the Great Liar cannot give a single example. I lie because I dishonor the Creator? That is an interesting choice of words. The Great Liar can dishonor the Creator by lying, but he can also dishonor God by being a poor testimony, without lying. It does not follow that dishonoring God makes one a liar. So you see, dear reader, that the practitioners of Hegelian dialectics cannot reason.

² Revelation 22:15— For without [New Jerusalem] are dogs, and sorcerers, and whore-mongers, and murderers, and idolaters, and whosoever loveth and maketh a lie.

³ Ecclesiastes 1:5— The sun also ariseth, and the sun goeth down, and hasteth to his place where he arose.

To intimidate me, the Great Liar throws in Revelation 22:15 which is only effective on those who knowingly lie. Since the Great Liar rejected the possibility that heliocentric or geocentric apologists could be deceived in good faith, he proves himself a liar and condemns himself to the fate of Revelation 22:15.

I “despise and trample on and corrupt His blessed words as recorded in The Jewish Tanakh,” (sic) says the Great Liar. More than thirty years ago I learned that anytime someone retreats to the “original” language that he is about to reveal to everyone something that everyone else has missed since the Holy Ghost first inspired the words. As was the case every time over the last thirty years, the Great Liar’s use of the “originals” is no exception. This time it is a newly-discovered version of Ecclesiastes 1:5. The Great Liar’s version is:

The sun also appears and the sun fades and desires its place where it appears.

Everyone else is wrong, in the Great Liar’s opinion, when translating the verse as it reads in the KJV:

The sun also ariseth, and the sun goeth down, and hasteth to his place where he arose.

Now consider the Great Liar’s version. “The sun also appears,” could well be to the observer, but the consensus is that the Hebrew has the sense of rising, as appears from its use including the reference to a “rising” in leprosy. On the other hand, the sun does not “fade,” when it sets. The sun’s “fading” demands that it gets intrinsically fainter, not that it is dimmed by the thickness of the atmosphere through which we see it. The underlying Hebrew word has the sense of going or coming, not a dimming.

And then we see in the Great Liar’s version that the sun desires its place where it appears. How does the sun “desire” anything unless it is as a type for Jesus Christ? If the sun is a type of Christ, then he “desires *his* place where *he* appears, but the Great Liar removes the Christology of the passage which gender is preserved in the KJV. The Great Liar’s version of Ecclesiastes 1:5 is bad translating as well as bad theology.

The Great Liar, in the section where he called me, I repeat, *he called me* “UNREPENTANT,” attached a web link, but the link no longer exists so there is little sense in reproducing it.

Bouw:

Thanks for such a great compliment. You have no idea what a blessing that is. (Luke 6:22.⁴)

The Great Liar:

Shalom fellow disciples of Yeshuwa

As the earth daily rotates on its axis west to east the sun "appears" to us in the morning and "fades" in the evening exactly as is written in Ecclesiastes 1:5 and other verses in the Jewish Tanakh (which christians despise):

"The sun also appears (Hebrew: zarach) and the sun fades (Hebrew: ba'a) and and desires (Hebrew: sha'aph) its place where it appears" (Ecclesiastes 1:5 Hebrew Tanakh)

I appreciate the agony which Patrick Geaney experienced as he was trapped for awhile (just as I was) in the christian corruption in their version of Ecclesiastes 1:5. My brother George and me and our friends agonized for many a long night over the last few years on this very subject. As Patrick discovered it was the "christian corruptions" which has caused such division and heart ache.

I devoted myself over the past few weeks challenging those who say that the earth does not rotate on its axis every 24 hours. The sheer scale of their evasive and contradictory replies is mind-boggling. One of them even wrote that "the people at NASA are not lying" when they assure us that "the earth daily rotates" but then contradicts himself by writing that his own theory "is true"!!!!. And this person claims to have a university degree on the subject!!!!. Most just simply ignored or side-stepped my questions or adopt the typically christian approach of asking me another question!!!

They all of course fall back on their false rendering of the words of Ecclesiastes 1:5 etc.

Truly christian teachers have corrupted the holy scriptures in order to "make a lie" (Revelation 22:15)

You have my permission to post this on your Guest Book.

Commentary

The Great Liar pretty much condemns himself here. He lies about Christians despising the Tenach (Old Testament) and it is clear from

⁴ Luke 6:22—Blessed are ye, when men shall hate you, and when they shall separate you from their company, and shall reproach you, and cast out your name as evil, for the Son of man's sake.

the above emails that his fourth paragraph not only takes what I wrote out of context but also adds words to what I wrote. Furthermore, his “Christian corruptions” fails to include the geocentric Jews who also believe the “Christian” interpretation. It is clear that the Great Liar views himself as a true Jew and that those Jews that do not adhere to the Tenach, as Karaites (modern Sadducees) do, for example, he calls “Christians.”

I took the opportunity to reply to what I thought was the post:

Bow:

Thank you for graciously providing me with this opportunity to expand a bit on the matter of geocentricity. You asked me two questions, the first was how I account for the geostationary satellites and the second whether the authors of certain heliocentric statements lied or not. I answered both but you based your conclusion only on my response to the latter question, ignoring my response to the former question. So I truly appreciate it that I have this opportunity. I have attached some documentation by heliocentrist physicists and astrophysicists addressing your first question and expounding the viability of the geocentric universe.

Now you probably forgot that you asked me nothing about Scripture, be it Torah, Tenach, or New Testament but as you bring it up here, please suffer me to respond to this new material:

I trust you are not saying that in the final analysis (truth being absolute when it comes to God’s words and considering that if God ever told a lie the power of his word is such that it would immediately come to pass), God lied in Joshua 10:13 when He wrote, “So the sun stood still and the moon stayed...”?

Or how about Isaiah 38:8, where God wrote that the sun—not just the shadow on the dial—returned ten degrees?

And does your Yeshuwa not speak the truth when Jesus says that the Father “**maketh his sun to rise on the evil and on the good, and sendeth rain on the just and on the unjust**” in Matthew 5:45? Or, if, as you claim, we move towards the sun carried along by the earth’s rotation in the first part of the sentence, does the earth also rotate and carry us to meet the rain in the clause of the verse?

Finally, Genesis 19:23 says, “The sun was risen upon the earth when Lot entered into Zoar.” Not literal, right? Now Mark 16:9 says, “Now when Jesus was risen early the first day of the week, he appeared first to Mary Magdalene, out of whom he had cast seven devils.” Also not literal, right? After all, rising from the dead is impossible, isn’t it. That’s what science teaches. To modern science, resurrection from

death is even more impossible than geocentricity (see attachment).⁵

I have a friend, a geocentrist, who is Jewish. He is a direct descendent of Aaron, of the priestly class, and a leader among the sons of Aaron. He disagrees with your analysis of Ecclesiastes 1:5. Are you telling me you know Hebrew better than that man who learned Ecclesiastical Hebrew before English does? (He knows Ecclesiastical English, also.)

Anyhow, thanks again for the gracious offer to respond.

Your unrepentant geocentrist,
Gerardus D. Bouw, B.S. (Astrophysics), M.S., Ph.D. (Astronomy)
<http://www.geocentricity.com>

Commentary:

I thought that might be about the end of the exchange. The above was supposed to be posted on the Internet. He might or might not reply to my critique of this post and forward it to me.

At this point in the exchange of emails, I received the following email from Malcolm Bowden who was one of the other three recipients party to the email exchange. (I was the second of the three and the third I do not know so will not name him.)

Malcolm Bowden:

I also had correspondence with [the Great Liar] but broke it off. He is eccentric to say the least. We started OK with what seemed a genuine query, but eventually he classed me with evildoers etc. at the end of Revelation.

In my last email I said –

3. The [geostationary] sat[elite] IS traveling at high speed RELATIVE TO THE ROTATING AETHER which is going at the same speed in the opposite direction.

He said he would quote “The satellite IS traveling at high speed” on the internet unless I repented within 7 days!!! He deliberately omitted the capitals in the sentence.

Be very wary of him. He will misquote you.

⁵ The attachment was a list of secular references allowing the geocentric model as well as several quotes directly allowing the validity of the geocentric model.

Commentary (Continued):

The Great Liar replied to my "thank you" email with what appeared to be the final post for his Internet site. The Great Liar did not respond to the Jewish priest's interpretation of Ecclesiastes 1:5. Nor did he respond to the resurrection paragraph of Genesis 19:23 with Mark 16:9. He twisted the Joshua 10:13 and dismissed Isaiah 38:8 without comment. The text that eventually settled on the Great Liar's cultic site is as follows; again, except for replacing double spaces by indented paragraphs, all errors and idiosyncrasies are saved in copying. Again, this has the form of a web page and so repeats material that appears earlier in the exchange.

The Great Liar:

Shalom fellow disciples of Yeshuwa

As the Earth daily rotates on its axis west to east the sun "**ap**pears" in the morning and "**fades**" in the evening exactly as is written in Ecclesiastes 1:5 and other verses in the Jewish Tanakh (which christians despise):

"The sun also appears (Hebrew: zarach) and the sun fades (Hebrew: baw) and desires (Hebrew: sha'aph) its place where it appears"(Ecclesiastes 1:5 Hebrew Tanakh)

I appreciate the agony which Patrick Geaney experienced as he was trapped for awhile (just as I was) in the christian corruption in their version of Ecclesiastes 1:5. My brother George and me and our friends agonised for many a long night over the last few years on this very subject. As Patrick discovered it was the "christian corruptions" which has caused such division and heart ache.

I devoted myself over the past few weeks challenging those who say that the Earth does not rotate on its axis every 24 hours. The sheer scale of their evasive and contradictory replies is mind-boggling.

NASA Scientists and other Astronomers inform us that "the earth rotates daily on its axis from west to east" and that "Geostationary Satellites orbit the earth; also from west to east; at approx 7,000 mph matching earth's rotation speed".

ALL of the Geocentrists "**loveth and maketh a lie**" (Revelation 22:15) that both the Earth and Geostationary Satellites are "STATIONARY".

However one of the Geocentrist promoters 'tripped himself up' by admitting in writing to me that "The sat IS travelling at high speed" [Statement of MB Date: Fri, 16 Jan 2009 17:24:19 -0000]. Another one of them admitted that "the people at NASA are not lying"

[Statement of GB Date: Thu, 22 Jan 2009 16:13:43 -0500 (EST)] when they assure us that "the earth daily rotates" but then contradicts himself by writing that his own theory "is true"!!!!. This particular person; who describes himself as an "unrepentant geocentrist" and boasting the qualifications "B.S. (Astrophysics), M.S., Ph.D.. (Astronomy)" also further confirmed his hatred for the words spoken by Yeshuwa' Mashi-yach as recorded in **Mattityahu 5:45**. I am pleased to read that you already have the correct translation from the Hebrew of **Mattityahu 5:45** in your web site.:

"in order that you might be sons of your Father Who is in heaven Who causes His sun to shine on the good and evil and causes it to rain on the bad and the just" (Mattityahu 5:45)

The above mentioned Pauline appointed christian "teachers" as expected quote from the christian corruption of Matthew 5:45 *"maketh his sun to rise on the evil and on the good, and sendeth rain on the just and on the unjust" (KJV corruption)*. In the interests of his lying christian geocentric doctrine GB and his fellow travellers CHANGED the word "**shine**" to instead read "rise". In addition he mocks and dishonours our Creator by questioning "God lied in Joshua 10:13 when He wrote, "So the sun stood still and the moon stayed..."?. Our Creator (who is not the christian idol); as disciples of Yeshuwa acknowledge; exercised His mighty power by clearly slowing down the daily rotation of the earth on its axis to accomodate His servant (Yehoshua 10:13). The Mighty One of Yisrael worked a similar miracle as is recorded in Isaiah 38:8.

Most christian 'geocentrists' I contacted just simply tried to 'blind me with their scientific knowledge' or ignored or side-stepped my questions or adopted the typically christian approach of asking me another question!!!

They all of course fall back on their false rendering of the words of **Ecclesiastes 1:5** etc.

Truly christian teachers have corrupted the holy scriptures in order to "**make a lie**" (**Revelation 22:15**)

Commentary:

You can compare the claims with the included emails and determine for yourself who is the liar, dear reader. As I brought up verses, he "retranslated" them from "Hebrew," (even the "Hebrew" of the New Testament!) to conform Scripture to his personal bias.

Note that I stand accused as the one who changed the word "shine" in Matthew 5:45 to "rise." I wasn't aware that I forced the

King James Version's translating committee to adopt my personal opinion. Wow! Maybe in the future I board a time machine and... .

Paul's gospel of grace is anathema to the Great Liar. His web site is most vehement against Paul, more so than any other author of Scripture. Of course, the Great Liar opposes Jesus, too. The Great Liar refers to Jesus as "the christian idol." Lest you think I exaggerate, consider the home page of the Great Liar's web site. We find there a set of instructions guiding anyone wanting to convert to the worship of the Great Liar's Yahweh. One of the early steps reads as follows:

Repent By FIRST publicly REJECTING "the idol elohiym of the nations" such as 'the trinity'; 'triunity'; 'oneness (sabellianism)'; buddha; shiva; jesus; jesus christ; christ jesus; allah; evolution; heliocentrism; etc: (all sic.)

Yes, the web page that tells you that if you want to worship Yahweh you must not only reject Jesus but also *reject heliocentrism*. If I am a liar because I attack heliocentrism, then what is the Great Liar when he, in his own web site, attacks heliocentrism as anathema to the worship of his god, Yahweh?⁶

Consider the Hegelian dialect of this situation. The Great Liar's thesis is heliocentrism and his antithesis is geocentricity. On the main page of his site, it is reversed; there his thesis is geocentricity and his antithesis is heliocentrism. So what is the Great Liar's synthesis? The same as it always is in any Hegelian dialectical argument: *egocentricity*. The synthesis is always what the thesis-advocate says it is, that is, "What I say it is." Is it any wonder that the Great Liar is seduced by a satanic dialect?

As the Lord inspired David to say in Psalm 58:3, "The wicked are estranged from the womb: they go astray as soon as they be born, speaking lies." We can certainly see that at work in the Great Liar.

Headline Bloopers

Man Kills Self Before Shooting Wife and Daughter

Something Went Wrong in Jet Crash, Expert Says

Police Begin Campaign to Run Down Jaywalkers

⁶ The quotes are from Liar's web site were current on 14 October 2009.

PANORAMA

Thomas van Flandern (1940-2009)

Dr. Thomas C. Van Flandern succumbed to colon cancer on January 9, 2009. Born in Cleveland, Ohio, Tom became fascinated with astronomy at an early age. In 1959, Tom and his friend Dennis Smith (age 17) participated in project Moonwatch in Cincinnati and set the world record for number of artificial satellites tracked during a month. Tom used his personal telescope, bought with money earned from his paper route.

Tom graduated from Xavier University in 1962, briefly attended Georgetown University in 1963 and received his PhD in astronomy from Yale University in 1969, specializing in celestial mechanics. Dr. Van Flandern worked at the U.S. Naval Observatory for 21 years and became Chief of the Celestial Mechanics Branch of the Nautical Almanac Office. It was there that I spent the summer of 1967 as an intern, working with him on lunar occultation reductions (timings of a star's disappearance and reappearance from behind the moon). Dr. van Flandern used those reductions to determine that the gravitational constant is not constant but is slowly changing over time.

After retiring from the Naval Observatory, Van Flandern served as a Research Associate at the University of Maryland Physics Department, and as a Global Positioning System (GPS) consultant to the Army Research Laboratory. He also wrote a book, *Dark Matter, Missing Planets and New Comets*, in which he introduces several controversial ideas. Most notably of his unusual theories is that the speed of gravity must propagate significantly faster than the speed of light; both comets and asteroids are remnants of an exploded planet; back-ground radiation is not caused by an expanding universe and therefore the big bang is invalid; Mars is an escaped moon of an exploded planet formerly located in the asteroid belt; and that some structures on Mars are artificial. His opinions of Mars are commonly used to marginalize Tom's better works. For instance, he successfully predicted the discovery that asteroids may have satellites, co-published peer reviewed papers on the speed of gravity with J.P. Vigié, and collaborated with Esko Lyttinen in improving the model for predicting meteor showers. The meteor shower predictions were used by me to decide what time of night was best to observe the series of Leonid meteor showers surrounding 1999.

In 1991, in response to the problem of getting research support for promising but unpopular alternative ideas in astronomy, Tom founded

Meta Research, which publishes a quarterly journal and maintains a presence on the Internet at metaresearch.org.

He is survived by his wife, Barbara, and four children.

Stephen Hawking's Explosive New Theory

In the beginning we are told that God created the firmament to divide the waters above and below the firmament. Although the view is now discredited by creationists, many still regard the firmament as the atmosphere separating the land surface from a canopy of water above it. The view runs into trouble with Scripture when it says that the sun, moon, and stars are placed inside the firmament. Modern creationist theory, as well as geocentric theory, understand the firmament to be the realm of the sun, moon, and stars that is the second heaven which separates the waters below from the waters above.

In order for the firmament to divide the waters, the waters had to start out as one mass of water. That implies that the firmament was stretched out in its creation. Indeed, the material universe we now see at night was also stretched out inside the firmament on the fourth day of creation. Thus God is said to have stretched out the heavens (plural) in Isaiah 45:12.¹ Indeed, we are also told that God is still stretching out the heavens (Psalm 104:2; Isaiah 40:22), so the expanding universe has scriptural support.

These days, stretching out the heavens is called *inflation*. The most viable version of the Big Bang is the inflationary version about which we have written many times. We have also reported that the earliest inflation model required the universe to be no more than 100,000 years old. The old-universe inflationary models have great difficulty accounting for what we observe. Now Stephen Hawking has come up with a new idea to explain how the Big Bang led to the vast cosmos that we can see today.

Modern astronomers deduce that the early universe must have expanded at a mind-boggling rate because regions separated by vast distances have similar background temperatures. A slower expansion rate consuming a larger fraction of the age of the universe would not suffer from such a problem. Nevertheless, evolutionary cosmologists are forced to propose a process of rapid expansion of neighboring regions, with similar cosmic properties, to explain inflation. But that does not explain why inflation occurred in the first place. Geocentrically we know that inflation was necessary to "age" the universe and its stars and finish it in less than a week, but that is unacceptable to cosmologists.

¹ Isaiah 45:12—I have made the earth, and created man upon it: I, even my hands, have stretched out the heavens, and all their host have I commanded.

mologists.

Last June, an answer was proposed by Prof Stephen Hawking of Cambridge University, working with Prof Thomas Hertog of the Astroparticle and Cosmology Laboratory in Paris. Hawking is best known for his attempts to combine theories of the very small (quantum theory), gravity, and the very big (general relativity) into a theory called *quantum gravity*.

According to quantum mechanics, when a particle of light travels through space, it does not take a pre-determined path but senses every possible path simultaneously. It selects the path with the least resistance. This is called the *principle of least action*. Hawking and Hertog propose the same thing for the inflationary stage of the universe.

In this theory, the universe can be described by a mathematical object called a *standing wave*. A jump rope is an example of a standing wave. So is the string on a musical instrument. What appeals to atheistic cosmologists is that such a standing wave requires no predetermined origin to the cosmos. Instead, the wave function of the universe searched out a multitude of ways to develop. Counter intuitively, Hawking and Hertog argue that the universe began in just about every way imaginable (and perhaps even some that are unimaginable). For instance, our universe consists almost exclusively of regular matter (koinomatter), but another universe may consist mostly of antimatter. Out of this profusion of beginnings, like a blend of a God's-eye view of every conceivable kind of creation, the vast majority of baby universes withered away to leave the mature cosmos that we can see today. At least, this is what the two cosmologists claim. (There is nothing "weird" about this; when one kicks a ball, the ball first feels an impulse—the introduction of the force that starts the ball's acceleration—but in the earliest stages of impulse, the ball does not yet sense the direction in which it should accelerate.)²

But, like any new idea, there were problems. The two discovered that they could not explain the rapid expansion, the inflation of the universe. But now, in a paper in *Physical Review Letters* with Prof James Hartle of the University of California, Santa Barbara, they report that their earlier estimates of inflation were wrong. They had not properly accounted for what we observe. Hawking and Hertog's first theory yielded "a little bit of inflation at the beginning, contradicting the observations," according to Hertog. After taking into account how the

² An impulse acting over time increases acceleration; acceleration acting over time increases velocity; velocity acting over time increases distance. That is how simple these complicated ideas can be. For instance, distance may be measured in miles; velocity is miles per hour; acceleration is miles per hour per hour, and impulse is miles per hour per hour per hour.

data on inflation is based on a view of a limited volume of the universe, the three researchers concluded that the wave function does indeed predict a long period of inflation.

“This proposal, with volume weighting, can explain why the universe inflated,” Prof Hawking told *New Scientist*. By taking into account that we have a parochial view of the cosmos, the team has come up with a radical new take on cosmology. Interpretation? Since the universe looks geocentric while we “know” it is not, we have to assume that the rest of space, what we don’t see, is different from what we do see.

The new inflationary model is not based on quantum mechanics as is the old Big Bang inflationary model. It is based on classical mechanics, what we observe today, and then packed backwards into the original fireball called the Big Bang. From arguments that are not clearly stated, the three cosmologists conclude that the universe did not have just one unique beginning and history but a multitude of different ones and that it has experienced them all. In other words, the kicked ball went in all directions or, stated in classical physics terms, the ball dented as long as it was accelerating. Since the surface of the dent reflects a multitude of directions where each “possible direction” is a line perpendicular to the surface of the dent, these three have concluded that each possible direction became a universe of its own. That is where quantum mechanics reenters the picture.

The new theory is also attractive because it fits in with string theory—the most popular candidate for a “theory of everything.” String theory allows the existence of an “unimaginable multitude of different types of universes in addition to our own,” but it does not provide a selection criterion among these and hence no explanation for why our universe is, the way it is”, says Prof Hertog. “For this, one needs a theory of the wave function of the universe.” And now cosmologists have one. The next step is to find specific predictions that can be put to the test, to validate this new view of how the cosmos came into being.

I suggest they look at the universe’s gravitational field centered on the earth. That provides a single, specific, unambiguous solution in which all the other “possibilities” are reduced to fiction.

Radiation Death in the Van Allen Belts³

I am still criticized, even by people I think should know better, for not believing that the moon landings were an elaborate, bungling fraud. My stance has not changed since July 1969 when Fidel Castro first

³ The information used in this article came from the Bad Astronomy and Universe Today web site: <http://www.bautforum.com/conspiracy-theories/8643-van-allen-belt.html>.

claimed the landing was a hoax: I have yet to see convincing evidence, evidence that would hold up in court, that the landings were a hoax. In this report we look at the radiation dangers of the Van Allen belts.

There are two broadly-defined Van Allen belts, an inner and an outer. The inner belt consists of energetic protons, energetic electrons, and alpha particles. The outer belt consists primarily of energetic electrons.

During the Apollo missions, the passage through the significant parts of the Van Allen belts took about four hours (2 hours out, 2 hours back). But since the intensity of the radiation was different at each point along the path, it's difficult to use that figure to arrive at an analytical estimate of exposure.

Shielding against alpha particles is trivial. A sheet of cardstock typically does the trick. Shielding against energetic protons is rather easy since these are heavy particles that do not penetrate most solid materials except at very high energies. Shielding against electrons is more difficult, but is best accomplished by non-metallic materials. There is not as great a need to shield against electrons, however, since their biological effect is limited compared to that of the heavier particles.

The "5 inch thick lead lining" is needed for gamma radiation which is composed of electromagnetic waves, not particles.

The following information was gleaned from two universities that have no tie to NASA.

The Van Allen Belt(s) are two crescent shaped belts of radiation orbiting the earth's equator in a torus that varies in intensity dependant upon the 11-year solar flare cycle. At the peak of the solar cycle, when sunspots are at a maximum, a third ring may form. It lies even closer to earth, under the region of the first permanent belt.

Now to consider an x-ray machine. Total radiation exposure on X-Ray machines is about 10 millirems for a one-second exposure, 1/200th of the ridiculously low Federal limit of 2 rems per year. Even considering that natural production of radiation is usually about ten times more efficient than artificial, the Van Allen belt doesn't come near to the power levels to generate any lethal dose of radiation. It took the astronauts about an hour to cross through each belt. The total energy their ship would have been exposed to in the larger belt would be 0.000146 watt hours. Given that not all this energy is in the form of ionizing radiation (x-rays and gamma rays), at worst, the astronauts were exposed to less than 0.1 millirems a second, which amounts to 360 millirems for the hour to pass through one belt. A person living in high altitudes such as Denver receives about 330 millirems a year from natural radiation.

In essence, the larger Van Allen belt exposed the astronauts to about a year worth of high altitude radiation in one hour's time. Not that major of a deal, considering it takes 500,000 millirems (500 rems) to approach guaranteed lethal levels. A dose of 100,000 millirems has a 50-50 chance of making you sick, but with a 100% chance of recovery. The astronauts would have to stay in the Van Allen belts for 1,388 hours or 58 days to receive a 500-rem lethal dose. Now consider these three things: first, the above analysis does not take the spacecraft's shielding into consideration and second, it is typical for a cancer radiation dose to reach 6 million millirems, thirty times the lethal whole-body dose and third, the Federal whole-body exposure limit was 25,000 millirems prior to 1950; the yearly limit for astronauts is also 25,000 millirems.

In light of this analysis, it is clear that there is no substance to the moon-landing-is-a-hoax advocates' argument that passage through the van Allen belts would have killed all the astronauts.

Cosmic Rays at a Space-age High⁴

"In 2009, cosmic ray intensities have increased 19% beyond anything we've seen in the past 50 years," says Richard Mewaldt of Caltech. "The increase is significant, and it could mean we need to rethink how much radiation shielding astronauts take with them on deep-space missions."

The cause of the surge is solar minimum, a deep lull in solar activity that began around 2007 and continues today.⁵ Researchers have long known that cosmic rays go up when solar activity goes down. Right now solar activity is as weak as it has been in modern times, setting the stage for what Mewaldt calls "a perfect storm of cosmic rays."

"We're experiencing the deepest solar minimum in nearly a century," says Dean Pesnell of the Goddard Space Flight Center, "so it is no surprise that cosmic rays are at record levels for the Space Age."

Galactic cosmic rays come from outside the solar system. They are subatomic particles--mainly protons but also some heavy nuclei--accelerated to almost light speed by distant supernova explosions. Cosmic rays cause "air showers" of secondary particles when they hit Earth's atmosphere; they pose a health hazard to astronauts; and a sin-

⁴ This article is a press release by NASA dated 9/29/2009.

⁵ The cosmic rays influence our weather. During eras of cold the more cosmic rays hit the earth than during warm times. At present, there is a complete absence of sunspots on the sun. Sunspots cause solar storms, which increase the sun's shielding of earth against cosmic rays. For details on the mechanism, see Bouw, G. D., 2009. "The Sun's Effect on Climate," *B.A.* 19(128):37.

gle cosmic ray can disable a satellite if it hits an unlucky integrated circuit.

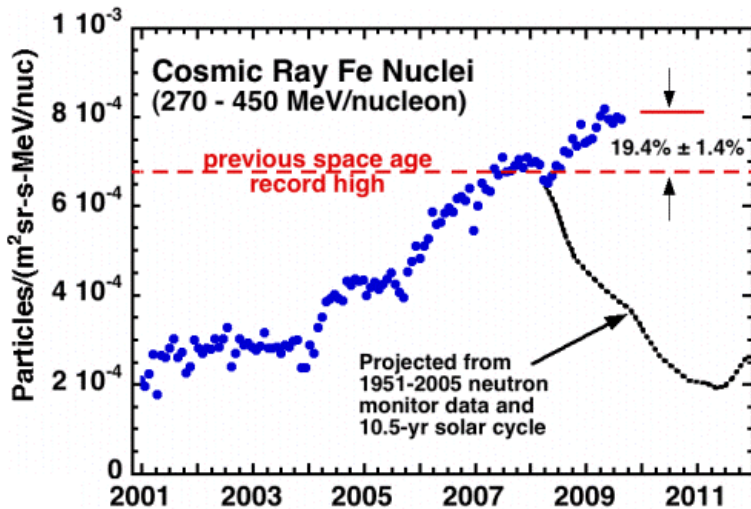


Figure 1: Energetic iron nuclei counted by the Cosmic Ray Isotope Spectrometer on NASA's ACE spacecraft reveal that cosmic ray levels have jumped 19% above the previous Space Age high.

The sun's magnetic field is our first line of defense against these highly-charged, energetic particles. The entire solar system from Mercury to Pluto and beyond is surrounded by a bubble of magnetism called "the heliosphere." It springs from the sun's inner magnetic dynamo and is inflated to gargantuan proportions by the solar wind. When a cosmic ray tries to enter the solar system, it must fight through the heliosphere's outer layers; and if it makes it inside, there is a thicket of magnetic fields waiting to scatter and deflect the intruder.

"At times of low solar activity, this natural shielding is weakened, and more cosmic rays are able to reach the inner solar system," explains Pesnell.

Mewaldt lists three aspects of the current solar minimum that are combining to create the perfect storm:

- 1. The sun's magnetic field is weak.** "There has been a sharp decline in the sun's interplanetary magnetic field down to 4 nT (nanoTesla) from typical values of 6 to 8 nT," he says. "This record-low interplanetary magnetic field undoubtedly contributes to the record-high cosmic ray fluxes."

2. The solar wind is flagging. “Measurements by the Ulysses spacecraft show that solar wind pressure is at a 50-year low,” he continues, “so the magnetic bubble that protects the solar system is not being inflated as much as usual.” A smaller bubble gives cosmic rays a shorter-shot into the solar system. Once a cosmic ray enters the solar system, it must “swim upstream” against the solar wind. Solar wind speeds have dropped to very low levels in 2008 and 2009, making it easier than usual for a cosmic ray to proceed.

3. The current sheet is flattening. Imagine the sun wearing a ballerina’s skirt as wide as the entire solar system with an electrical current flowing along its wavy folds. It’s real, and it’s called the “heliospheric current sheet,” a vast transition zone where the polarity of the sun’s magnetic field changes from plus to minus. The current sheet is important because cosmic rays are guided by its folds. Lately, the current sheet has been flattening itself out, allowing cosmic rays more direct access to the inner solar system.

“If the flattening continues, we could see cosmic ray fluxes jump all the way to 30% above previous Space Age highs,” predicts Mewaldt.

Earth is in no great peril. Our planet’s atmosphere and magnetic field provide some defense against the extra cosmic rays. Indeed, we’ve experienced much worse in the past. Hundreds of years ago, cosmic ray fluxes were at least 200% to 300% higher than anything measured during the Space Age. Researchers know this because when cosmic rays hit the atmosphere, they produce an isotope of beryllium, ^{10}Be , which is preserved in polar ice. By examining ice cores, it is possible to estimate cosmic ray fluxes more than a thousand years into the past. Even with the recent surge, cosmic rays today are much weaker than they have been at times in the past millennium.

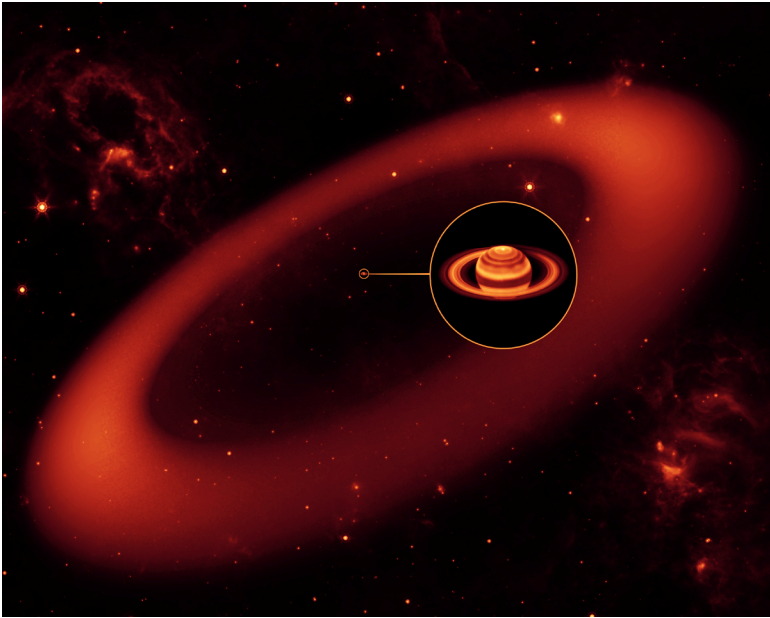
“The space era has so far experienced a time of relatively low cosmic ray activity,” says Mewaldt. “We may now be returning to levels typical of past centuries.”

In plain English, global warming has ceased and a century’s worth of warming has been wiped out in one year.

A New Ring of Saturn Solves an Old Mystery

An outer ring of Saturn, inclined to its inner ring, has been discovered. It is depicted in the figure above, which also shows the relative position and orientation of Saturn, greatly enlarged, which fits in

the small circle pointed to by the line connecting the insert to its corresponding location.



The newly discovered ring is coupled with Iapetus' orbit in such a way that Iapetus plows through the ring each orbit with the same side catching the ring's dust. This appears to solve the centuries-old mystery of why one hemisphere of Iapetus is much darker than the other hemisphere (see front cover photo).

“The most terrifying words in the English language are: I’m from the government and I’m here to help.”

—Ronald Reagan

“The trouble with our liberal friends is not that they’re ignorant; it’s just that they know so much that isn’t so.”

—Ronald Reagan

“No arsenal, or no weapon in the arsenals of the world, is as formidable as the will and moral courage of free men and women.”

—Ronald Reagan

GEOCENTRIC MECHANICS I: Geocentricity and

$$2\mathbf{w} \times \mathbf{v} + \dot{\boldsymbol{\omega}} \times \mathbf{r} + \mathbf{w} \times (\mathbf{w} \times \mathbf{r})^1$$

Prof. James N. Hanson

In the title we show the sum of three accelerations. They are called Coriolis, Euler, and Centrifugal, and they arise from a simple formal mathematical derivation. In the literature it is obligatory that the interpretation of these three terms be obscured. Their derivation is an exercise in kinematics and only has applicability when we multiply them by a mass, m , converting them to forces, which, moreover, humans can sense. These forces are often called *fictitious*, thus obscuring their interpretation. Far from being fictitious they can frequently be real, and in fact, provide a basis for geocentric dynamics. The Apeiron Press of Montreal, Canada has come close to agreeing with this. They call such mechanics “relational mechanics,” but draw short of ever stating the obvious geocentric significance, e.g. see Assis.²

The Derivation

First, consider an arbitrary vector \mathbf{A} which, in absolute space, we denote by \mathbf{A}_s . In a rotating coordinate system (which rotates only and does not translate) we denote this same vector as

$$(1) \quad \mathbf{A}_s(t) = x_r(t) \mathbf{i}(t) + y_r(t) \mathbf{j}(t) + z_r(t) \mathbf{k}(t)$$

where the subscript r indicates measurement within the rotating system. Note, $x_r(t)$, $y_r(t)$, $z_r(t)$ are the rectangular coordinates measured along the orthogonal unit vectors $\mathbf{i}(t)$, $\mathbf{j}(t)$, $\mathbf{k}(t)$ where their time dependency indicates that they are rotating. Hence, differentiating with respect to time gives

$$(2) \quad d\mathbf{A}_s/dt = (x_r d\mathbf{i}/dt + \mathbf{i} dx_r/dt) + (y_r d\mathbf{j}/dt + \mathbf{j} dy_r/dt) + (z_r d\mathbf{k}/dt + \mathbf{k} dz_r/dt).$$

¹ The symbols are defined as follows (boldface denotes a vector): \mathbf{w} is the angular velocity (speed of rotation), $\dot{\boldsymbol{\omega}}$ is any change or acceleration in the angular velocity, and \mathbf{r} is the distance from a reference point. The symbol \times denotes the cross or vector product which is also known as the Cartesian apeiron.

² Assis, *Relational Mechanics* Apeiron, 1999, pp. 82-82, 150, 154-157, 182-187, 190-192, 196, 199, 212, 218-222, 236.

Let w be the rotation vector of the moving system, then

$$(3) \quad d\mathbf{A}_s/dt = [x_r(w \times \mathbf{i}) + \mathbf{i}dx_r/dt]_r + [y_r(w \times \mathbf{j}) + \mathbf{j}dy_r/dt] + [z_r(w \times \mathbf{k}) + \mathbf{k}dz_r/dt]$$

where, e.g., $d\mathbf{i}/dt = w \times \mathbf{i}$ is the tangential (and only) motion of \mathbf{i} due to rotation w .

Collecting terms,

$$(4) \quad d\mathbf{A}_s/dt = [w \times (x_r \mathbf{i}) + w \times (y_r \mathbf{j}) + w \times (z_r \mathbf{k})] + [\mathbf{i}dx_r/dt + \mathbf{j}dy_r/dt + \mathbf{k}dz_r/dt] \\ = w \times \mathbf{A}_r + d\mathbf{A}_r/dt.$$

We may provide words for equation (4): if $(d\mathbf{A}/dt)_s$ and $(d\mathbf{A}/dt)_r$ are the measured (i.e. by ranging or surveying) time derivatives in the s-system and r-system, then they are related by

$$(5) \quad (d\mathbf{A}/dt)_s = w \times \mathbf{A}_r + (d\mathbf{A}/dt)_r.$$

Equation (5) does not require that the s-system be inertial, however, our application does.

I find this derivation to be mystical, but much more concrete than what is found in the texts. We now proceed to the derivation of the three inertial forces.

Let \mathbf{r} and \mathbf{r}' be displacement vectors in the s-system and r-system and let \mathbf{r} be the position of the s-system origin with respect to the s-system, then

$$(6) \quad \mathbf{r} = \mathbf{r} + \mathbf{r}'$$

and differentiating both sides,

$$(7) \quad (d\mathbf{r}/dt)_s = (d\mathbf{r}/dt)_s + (d\mathbf{r}'/dt)_s.$$

And using identity (5),

$$(d\mathbf{r}/dt)_s = (d\mathbf{r}/dt)_s + [(d\mathbf{r}/dt) + w \times \mathbf{r}]_s$$

The differentiating again and applying (5)

$$(d^2\mathbf{r}/dt^2)_s = (d^2\mathbf{r}/dt^2)_s + (d\mathbf{w}/dt)_s + d/dt(w \times \mathbf{r})_s \\ = (d^2\mathbf{r}/dt^2)_s + [(d\mathbf{v}/dt)_r + w \times \mathbf{v}_r] + (d\mathbf{w}/dt)_s \times \mathbf{r}' + w \times (d\mathbf{r}'/dt)_s$$

$$= (d^2\mathbf{r}/dt^2)_s + (d\mathbf{w}/dt) + \mathbf{w} \times \mathbf{v}_r + [(d\mathbf{w}/dt)_r + \mathbf{w} \times \mathbf{w}] \times \mathbf{r}' \\ \mathbf{w} \times [(d\mathbf{r}'/dt) + \mathbf{w} \times \mathbf{r}']$$

or

$$(8) \quad \mathbf{a} = \mathbf{A} + \mathbf{a}' + 2 \mathbf{w} \times \mathbf{v}' + d\mathbf{w}/dt \times \mathbf{r}' + \mathbf{w} \times (\mathbf{w} \times \mathbf{r}')$$

where

\mathbf{a} , \mathbf{a}' denote acceleration in the s-system and r-system, $d^2\mathbf{r}/dt^2$, $d^2\mathbf{r}'/dt^2$

\mathbf{v}' denotes velocity = $d\mathbf{r}'/dt$,

\mathbf{A} is the acceleration of the origin of the r-system = $d^2\mathbf{r}/dt^2$.

This derivation gives the correct result as is verified by experiment, but it so unintuitive that even Leonard Euler missed it.

The term $-2\mathbf{w} \times (d\mathbf{r}'/dt) = -2\mathbf{w} \times \mathbf{v}'$ is called the Coriolis acceleration, $-d\mathbf{w}/dt \times \mathbf{r}'$ is the Euler acceleration and $-\mathbf{w} \times (\mathbf{w} \times \mathbf{r}')$ is the centrifugal acceleration. Equation (8) is the subject of this paper. It only has sense when it can be sensed by humans. To do this we, in accord with Newton's second law, multiply both sides by m , the mass of a test particle thus converting accelerations to sensible forces.

$$(9) \quad m(d^2\mathbf{r}'/dt^2) = m\mathbf{a} - 2m\mathbf{w} \times (d\mathbf{r}'/dt)' - m(d\mathbf{w}/dt) \times \mathbf{r}' - m\mathbf{w} \times (\mathbf{w} \times \mathbf{r}') + \mathbf{F}'.$$

Hence we now have Newton's second law for a moving frame where applied forces \mathbf{F}' have been included. We assume that \mathbf{F}' depends only on relative distances and velocities, such as gravitation and Coulomb forces. Hence

$$(10) \quad \mathbf{F} = \mathbf{F}'.$$

We may also note that $\mathbf{w}' = -\mathbf{w}$.

Fictitious Forces

Let the test mass, m , not be coupled to the primed system (*i.e.*, moves in the unprimed system). For example, an observer flying a rocked ship. If this pilot measured his accelerations with respect to the moving system he would observe, but not sense, equation (8). In this case the Coriolis, Euler, and centrifugal forces are fictitious forces in that they are not felt and have no material cause. And if m had been coupled (attached) to the moving frame, then these forces are real.

Geocentric Mechanics

Let the primed system's origin be moved to coincide with the unprimed system's origin and let w lie along the z -axis and be assigned to have a magnitude of one sidereal rotation, *i.e.*, $23^{\text{h}} 56^{\text{m}}$ per rotation of the starry sky. We now let the primed and unprimed systems coincide. We further acknowledge that the Coriolis, Euler, and centrifugal terms are a property of the aether (firmament) that God has established. Our geocentric version of Newton's second law is:

$$(11) \quad m(d^2\mathbf{r}'/dt^2) = m\mathbf{a} - 2m\mathbf{w} \times (d\mathbf{r}'/dt) - m(dw/dt) \times \mathbf{r} - m\mathbf{w} \times (\mathbf{w} \times \mathbf{r}) + \mathbf{F}$$

where we have dropped the primes and regard \mathbf{r} as a displacement measured from the earth's center. We furthermore hold that both \mathbf{a} and (dw/dt) are zero or very, very nearly so. \mathbf{a} and (dw/dt) may on occasion have small non-zero values to accommodate catastrophes that God has wrought upon the earth. $(dw/dt) \neq 0$ would be a disturbance of the aether and not necessarily a motion of the earth. $\mathbf{a} \neq 0$ could likewise be a perturbation of the aether or a displacement of the earth's position from its established place. In this connection we might consider the following verses:

Psalm 82:5—...all the foundations of the earth are out of course.

Isaiah 24:19—...the earth is moved exceedingly.

Isaiah 24:20—The earth shall reel to and fro like a drunkard, and shall be removed like a cottage;... .

Joshua 10:12 *v.f.*, Joshua's long day.

Jeremiah 4:24—I beheld the mountains, and lo, they trembled, and all the hills moved lightly.

There are many such like verses.

Applications

Equation (11) is the basis for geocentric mechanics. As we shall see in the sequel, its solutions yield the stationary satellite, the precession of a gyroscope, the rotation of the plane of the Foucault pendulum, and the path of a falling body.

Let the terms in (11) containing w be denoted by \mathbf{F}_i , then (6) becomes

$$(12) \quad m(d^2\mathbf{r}'/dt^2) = \mathbf{F}_i + \mathbf{F}$$

where \mathbf{a} has been ignored. The Copernican equation is

$$(13) \quad m(d^2\mathbf{r}'/dt^2) = \mathbf{F}.$$

The initial conditions for (12) are geocentric whereas for (13) they are measured in some indeterminate inertial space. The solution of (13) must receive a transformation to obtain geocentric coordinates. We denote the solution of (12) by $\mathbf{X}_g(t)$ and that of (13) by $\mathbf{X}_i(t)$ and its transformed version as $\mathbf{X}_c(t)$. $\mathbf{X}_g(t)$ and $\mathbf{X}_c(t)$ are not the same, thus presenting a test between the two.

The Literature

Rotation of coordinates is always a confusing subject in the texts. This is so since the inclusion of geocentricity is forbidden in the literature. However, suggested reading is:

Corben & Stehle, *Classical Mechanics*, 2nd ed., pp. 140-146, Dover, 1950.

Kilmister & Reeve, *Rational Mechanics*, Chapter 3, Elsevier, 1966.

Assis, *Relational Mechanics* Apeiron, 1999.

Flügge, *Principles of Classical Mechanics and Field Theory*, pp. 45, 437-440, 489-490, Springer Verlag, 1960.

In these references, the mathematics is greatly embellished and many interesting identities are derived.

Cause for concern!

A Washington, DC airport ticket agent offers some examples of why our country is in trouble!

I just got off the phone with a freshman Congressman who asked, "How do I know which plane to get on?" I asked him what exactly he meant, to which he replied, "I was told my flight number is 823, but none of these planes have numbers on them."

HISTORY OF GEOCENTRICITY BOOK SERIES

For much of this year I have been working on a new edition of *Geocentricity*. Indeed, working on it is the main reason why I am behind in my quarterly publication as well as this being a double issue. In the course of the revision, new chapters have been added to the book. Two of those chapters will examine geocentrists past and present. Some were geocentrists because of Scripture, others for philosophical reasons, and a few for scientific reasons. Also, some anti-geocentrists have had some curious reasons and arguments. Their views, too, are worthy of consideration, not because of their pro-heliocentric merit so much as for the reasons they placed their faith in the heliocentric models. Many of those reasons appear ridiculous today. Tischner, for instance, is not a geocentrist but spent his life reprimanding heliocentrists for not removing the sun from the center of the universe when every heliocentric indication shows that the sun orbits the center of the Milky Way.

In the meantime, the Internet has allowed me to collect many of the historic geocentric papers. I shall make these available to the readership of the *Biblical Astronomer*. Each book will be accompanied by biographical information and other information and anecdotes I have collected. The printing format is six by nine inches with the reproduced area spanning as much of the page as possible. (Sometimes the flaws are too evident if a page is too enlarged.) Most of the pages have been enhanced, and some pages that are missing from copies available from other vendors who considered the quality too bad to be worthy of inclusion have been touched up and restored for reading's sake instead of historical appearance.

To make any sense of many of the arguments presented by the authors, you have to remember that the science of their day is not the science we know today. For instance, the reason for why the sky is blue—that blue is halfway between black and white—may be ridiculed today, but in 1850 it made perfect sense. After all, Rayleigh did not find the true cause (preferential scattering of blue light) until about 1880.

Some of our offerings will be in French and German. As a rule, if the title is not in English, then neither is the book.

One theme that runs through the late eighteenth, nineteenth, and early twentieth century works is the rejection of gravity in favor of electromagnetic force as the mechanism to keep the solar system in tact. This is not necessarily bad science given the limited knowledge of

the time. Most geocentric books prefer Tycho Brahe's model of the universe. Some reject Tycho as well as the Copernican system. Some books, albeit none on the current list, have flat-earth overtones. Generally, flat earth advocates see the sun being too small to be the center of anything, which moots the geocentric vs. heliocentric debate.

The following list has the year of publication in the first column, followed by the title and author, followed by the number of pages.

| | |
|--|-----|
| 1632 Brahe's Account of the Supernova of 1572 | 39 |
| 1690 <i>De la Cause de la Pesanteur</i> -- Fatio de Duillier | 51 |
| 1707 v. 1 <i>That the Moon May Be a World</i> -- Wilkins | 143 |
| 1707 v. 2 <i>That it is Probable the Earth Is One of the Planets</i> | 138 |
| 1728 <i>Immobility of the Earth</i> -- Jonchere | 32 |
| 1784 <i>Lucrèce Newtonien</i> --le Sage | 11 |
| 1784 <i>The le Sage Theory of Gravity</i> -- translated by Abbot | 28 |
| 1803 <i>Defence of the Divine System</i> -- Prescott | 103 |
| 1818 <i>Deux Traités de Physique Mechanique</i> -- le Sage | 399 |
| 1833 <i>David and Goliath</i> -- Lander | 133 |
| 1885 <i>The Fixed Idea of Astronomical Theory</i> -- Tischner | 99 |
| 1890 <i>Joshua's Long Day & Hezekiah's Sign</i> -- Totten | 159 |
| 1900 <i>Earth Stands Fast</i> -- Schöpffer, de Peyster, Allaben | 85 |
| 1900 <i>Algol the Demon Star</i> -- de Peyster, Allaben | 100 |
| 1906 <i>Die Bible und Astronomie</i> -- Pasche | 420 |
| 1915 <i>Fifty Reasons</i> -- Pasche | 51 |
| 1967 <i>The Heart of the Matter</i> -- van der Kamp | 33 |

We cannot afford to publish all volumes at once. The books will be released one at a time. Each book will be prefaced by an introduction relating what is known about the author followed by an overview of the book's science and, where applicable, its theology.

The first reprint is August Tischner's *The Fixed Idea of Astronomical Theory*. Tischner was not so much a geocentrist as he was an anti-Copernican. He earned that label by opposing the Copernican dogma that the sun is fixed immobile at the center of the universe. Tischner described a double mindedness among astronomers of the nineteenth century. On the one hand, astronomers insisted that the sun was fixed at the center of the universe. At the same time, they believed that the sun orbited the center of the Milky Way. As outlined in my introduction to the book, that double mindedness continues to this day.

Tischner's book also includes a collection of interviews with several of the leading astronomers of his time on the issue of geocentricity. Some of these accounts appear in Schöpffer's and Pasche's books. See the editorial for the status and price of Tischner's book.

CREDO

The Biblical Astronomer was founded in 1971 as the Tychonian Society. It is based on the premise that the only absolutely trustworthy information about the origin and purpose of all that exists and happens is given by God, our Creator and Redeemer, in his infallible, preserved word, the Holy Bible commonly called the King James Bible. Any scientific endeavor which does not accept this revelation from on high without any reservations, literary, philosophical or whatever, we reject as already condemned in its unfounded first assumptions.

We believe that the creation was completed in six twenty-four hour days and that the world is not older than about six thousand years. We maintain that the Bible teaches us of an earth that neither rotates daily nor revolves yearly about the sun; that it is at rest with respect to the throne of him who called it into existence; and that hence it is absolutely at rest in the universe.

We affirm that no man is righteous and so all are in need of salvation, which is the free gift of God, given by the grace of God, and not to be obtained through any merit or works of our own. We affirm that salvation is available only through faith in the shed blood and finished work of our risen LORD and saviour, Jesus Christ.

Lastly, the reason why we deem a return to a geocentric astronomy a first apologetic necessity is that its rejection at the beginning of our Modern Age constitutes one very important, if not the most important, cause of the historical development of Bible criticism, now resulting in an increasingly anti-Christian world in which atheistic existentialism preaches a life that is really meaningless.

If you agree with the above, please consider becoming a member. Membership dues are \$30 per year. Members receive a 15% discount on all items offered for sale by the *Biblical Astronomer*.

To the law and to the testimony: if they speak not according to this word, it is because there is no light in them.

– Isaiah 8:20

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He Maketh His Sun to Rise: A Look at Biblical Geocentricity, Dr. Thos. Strouse. Critique of Creationist arguments as well as theological insights into geocentricity. \$8

The Fixed Idea of Astronomical Theory by August Tischner. A reprint of an 1885 book that describes a certain double mindedness of astronomers about the station of the sun in the universe. In his introduction to the work, Dr. Bouw demonstrates that this double mindedness is still very much in vogue today. \$15

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