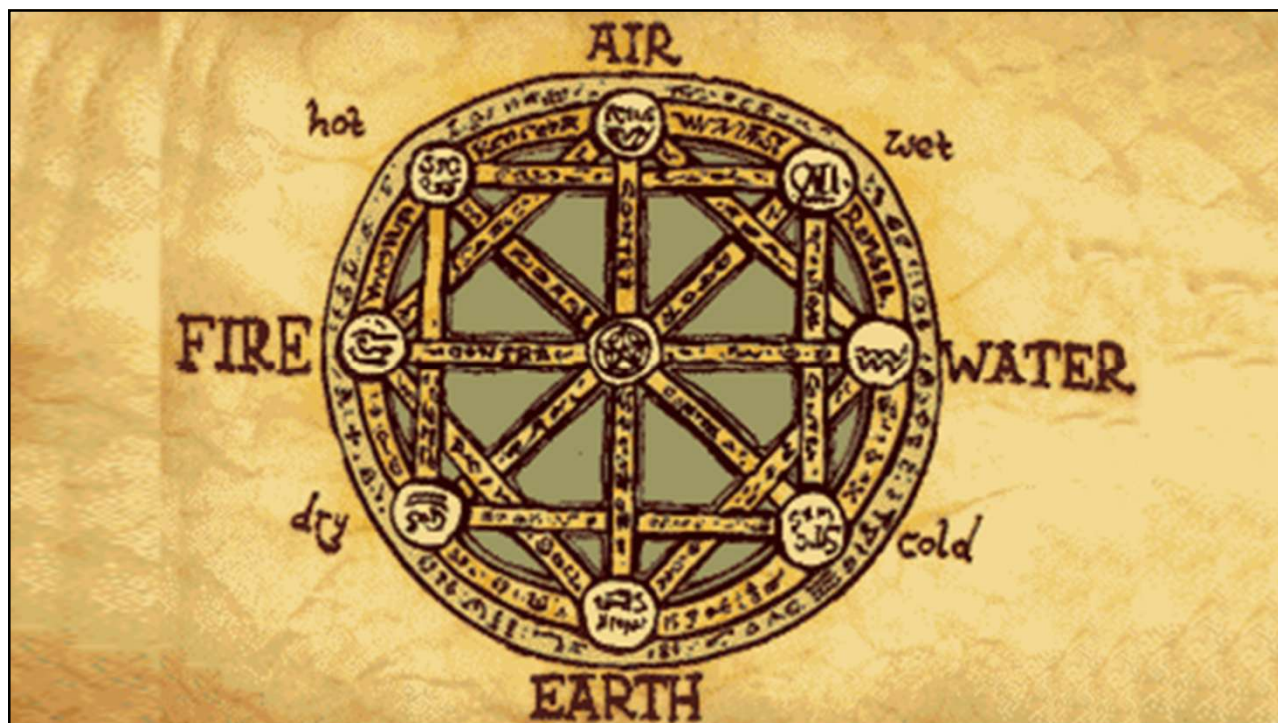
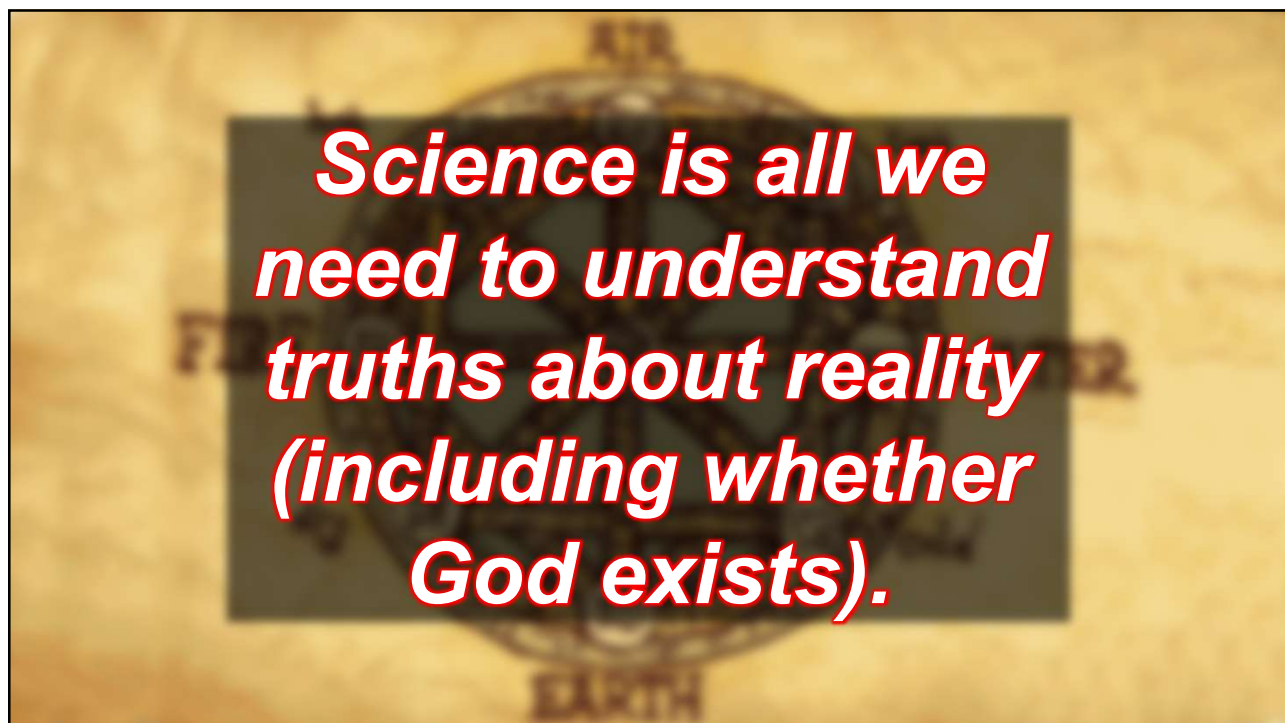
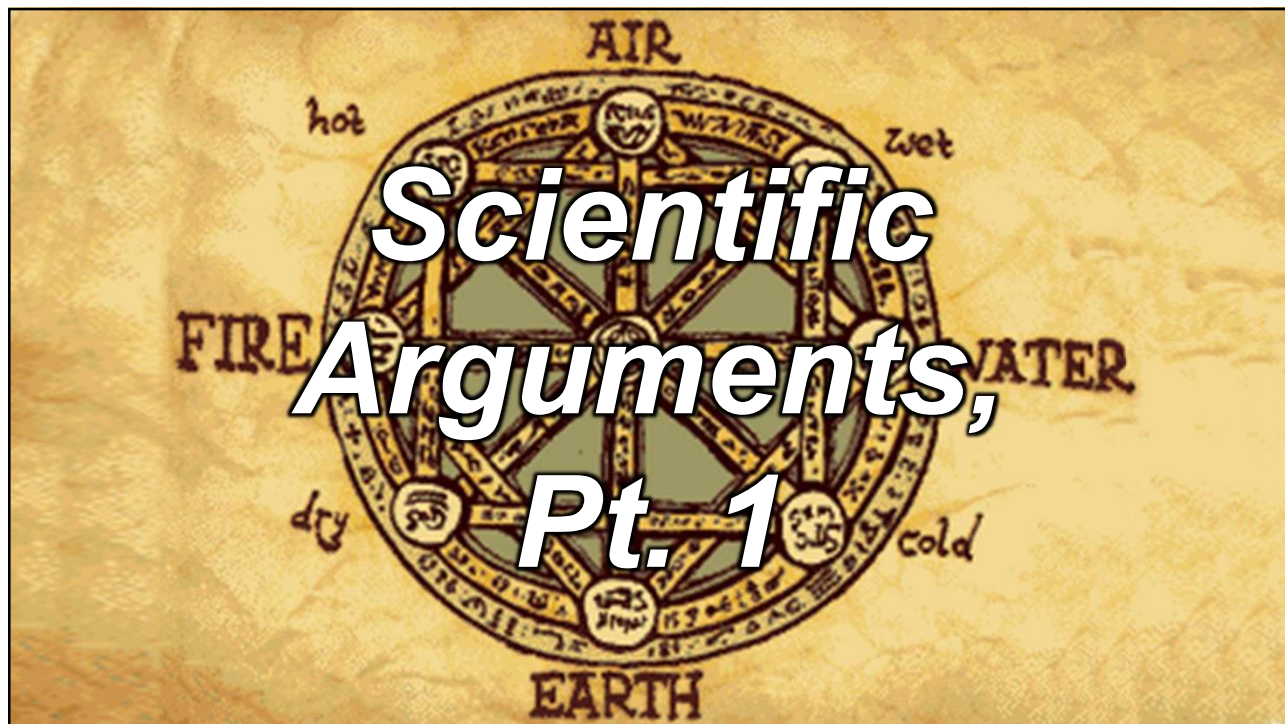


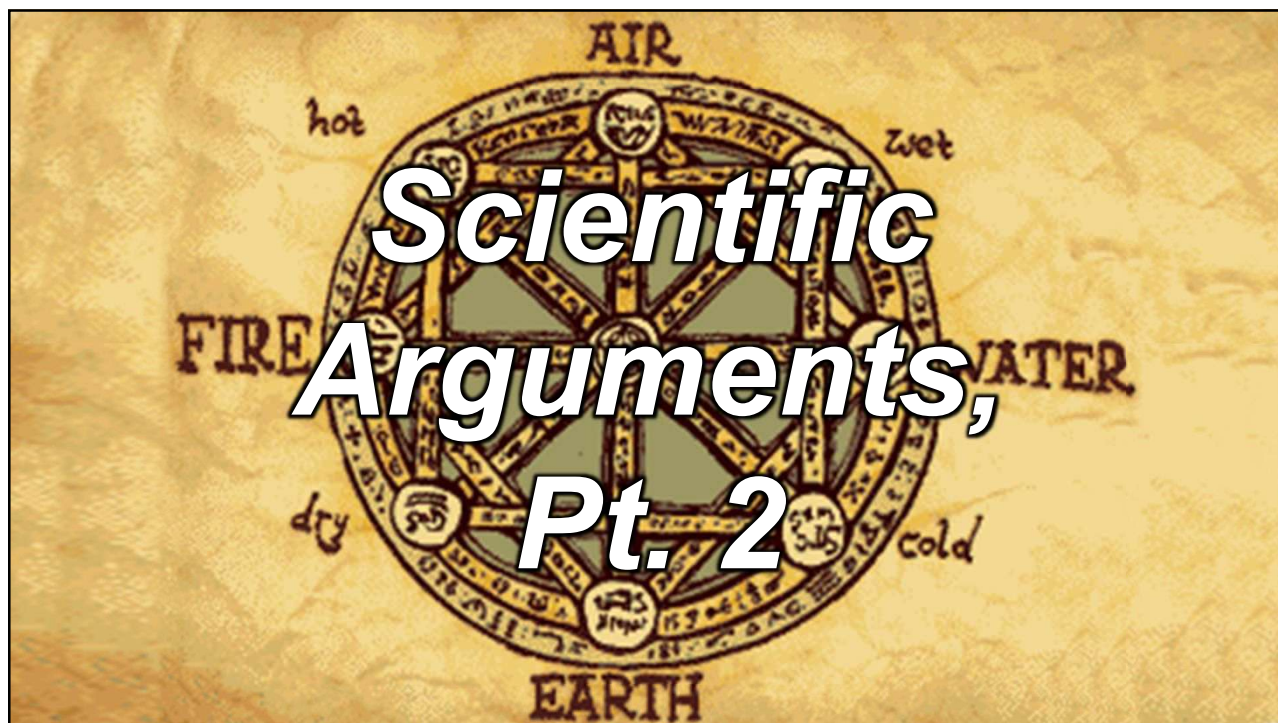
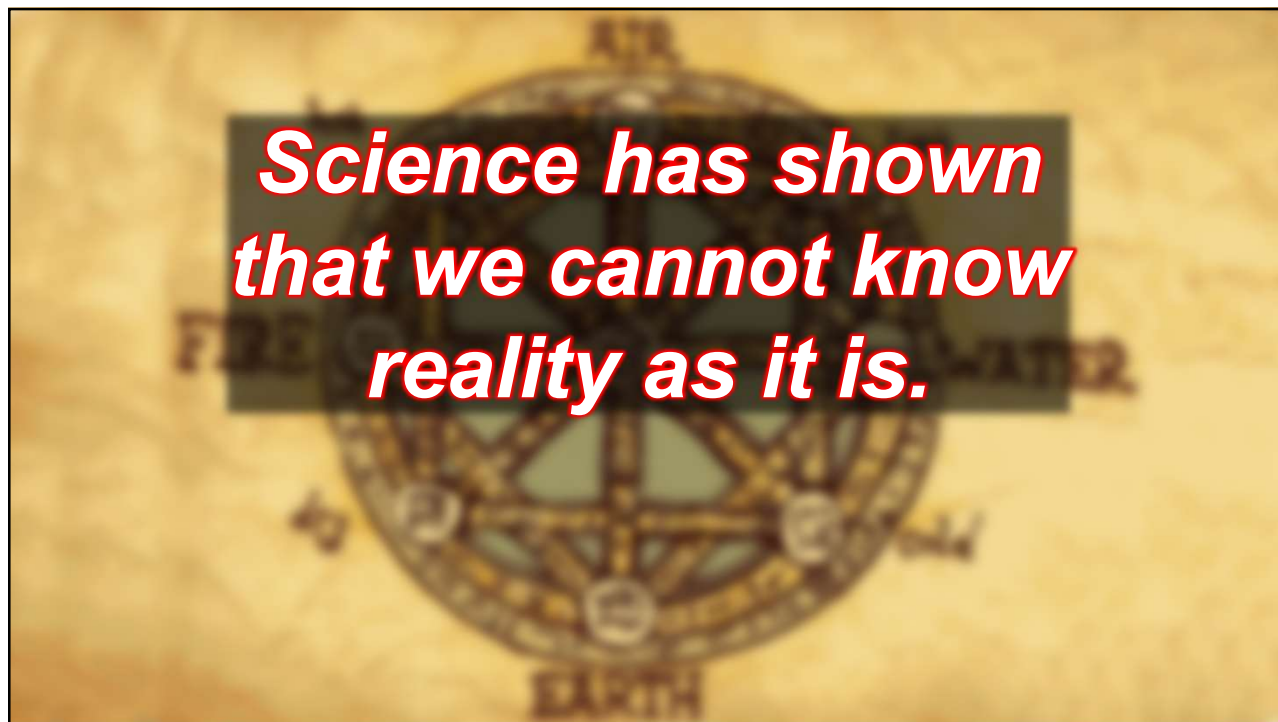
Contemporary Atheism

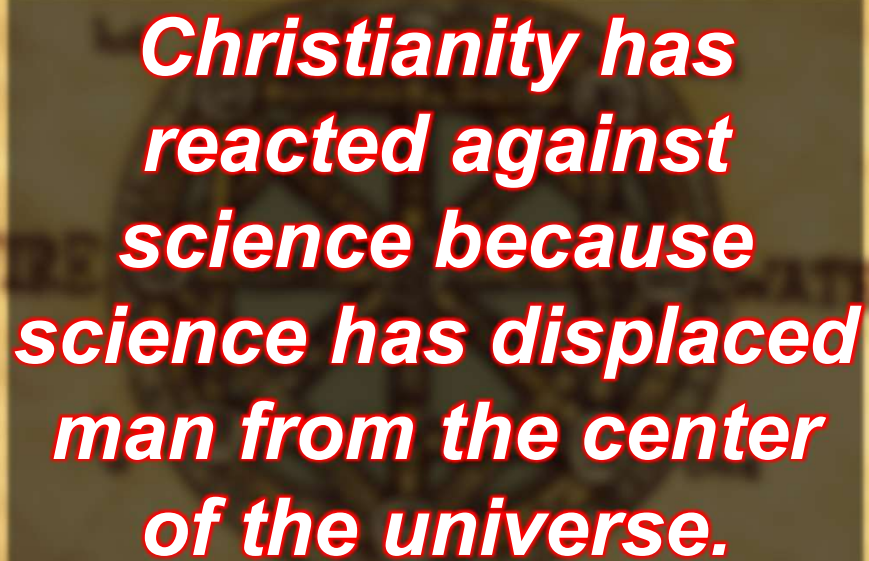
04 Popular Atheism: Scientific, Pt. 2

Richard G. Howe, Ph.D.
Provost
Professor of Philosophy and Apologetics
Norman L. Geisler Chair of Christian Apologetics
Southern Evangelical Seminary, Rock Hill, South Carolina, USA

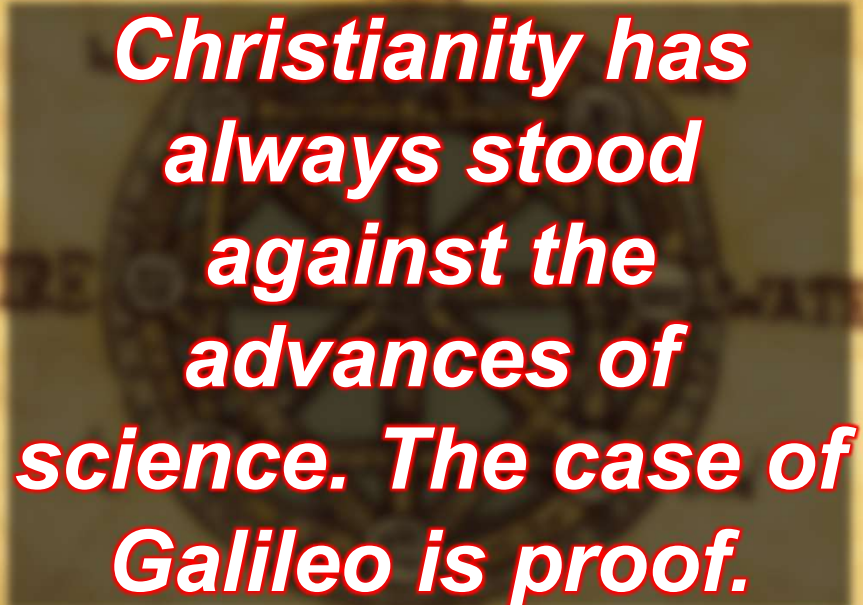




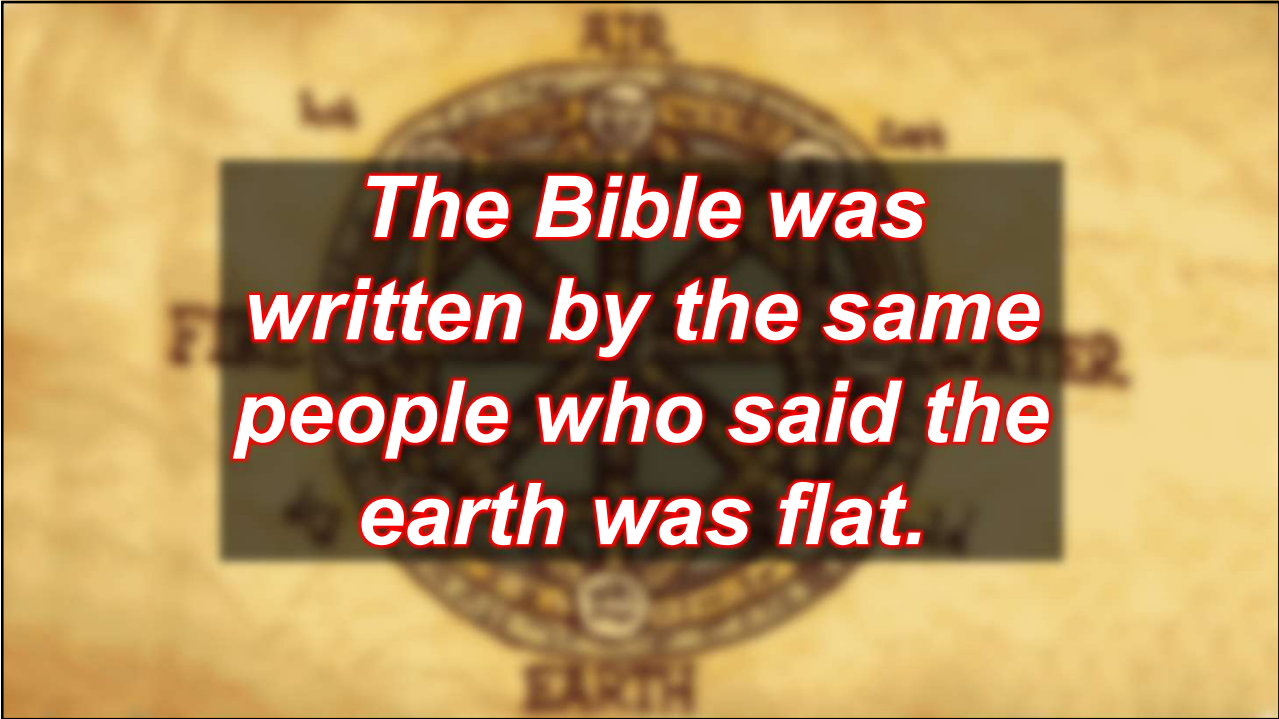




Christianity has reacted against science because science has displaced man from the center of the universe.



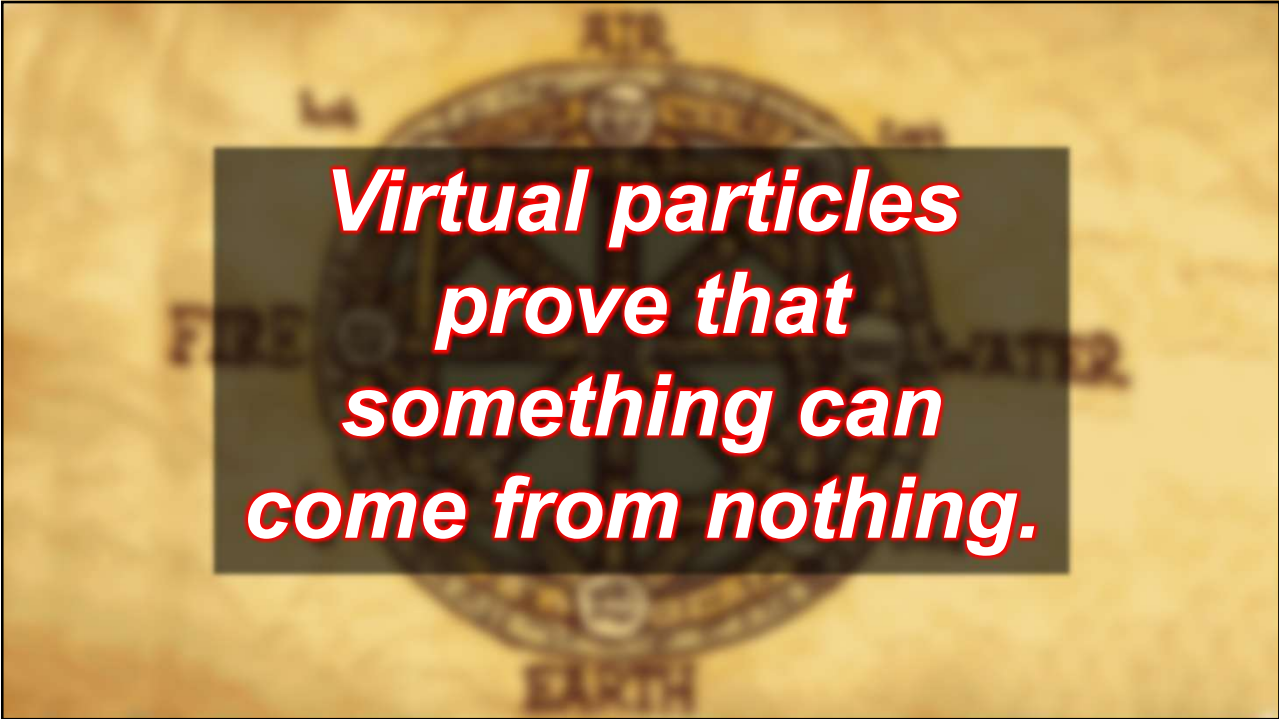
Christianity has always stood against the advances of science. The case of Galileo is proof.



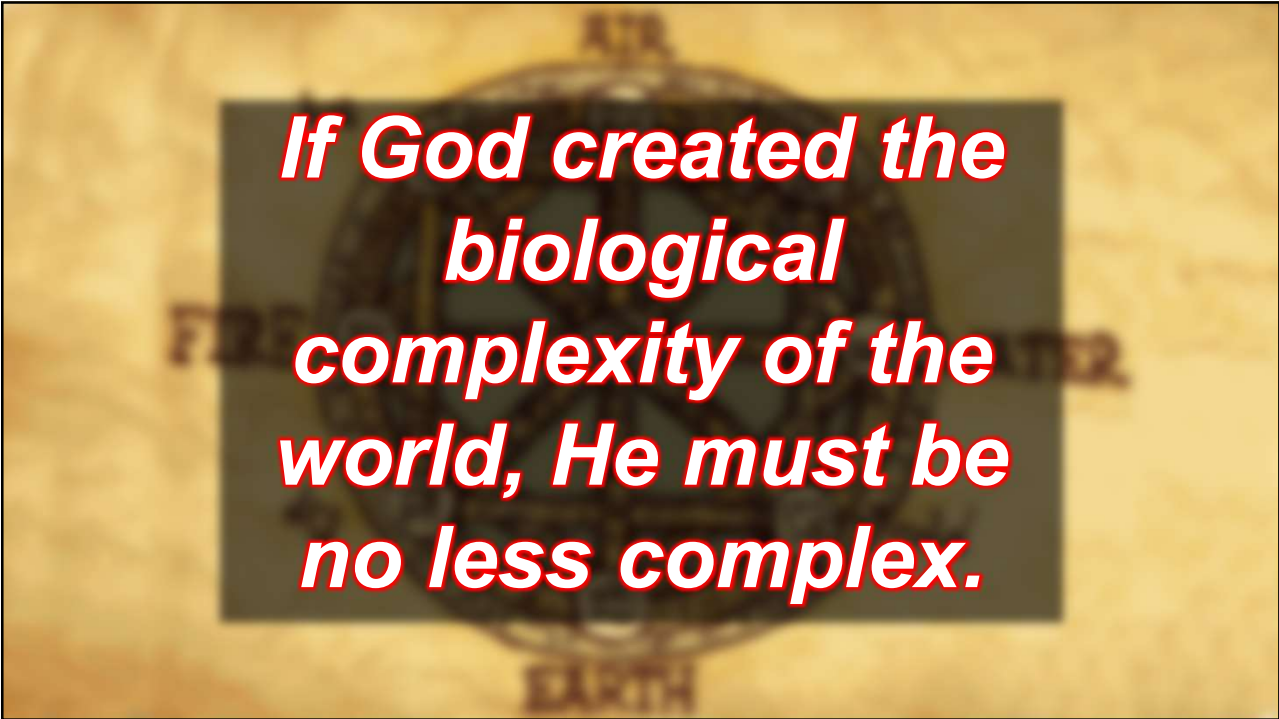
The Bible was written by the same people who said the earth was flat.



Most scientists are atheists therefore the belief in God is not scientific.

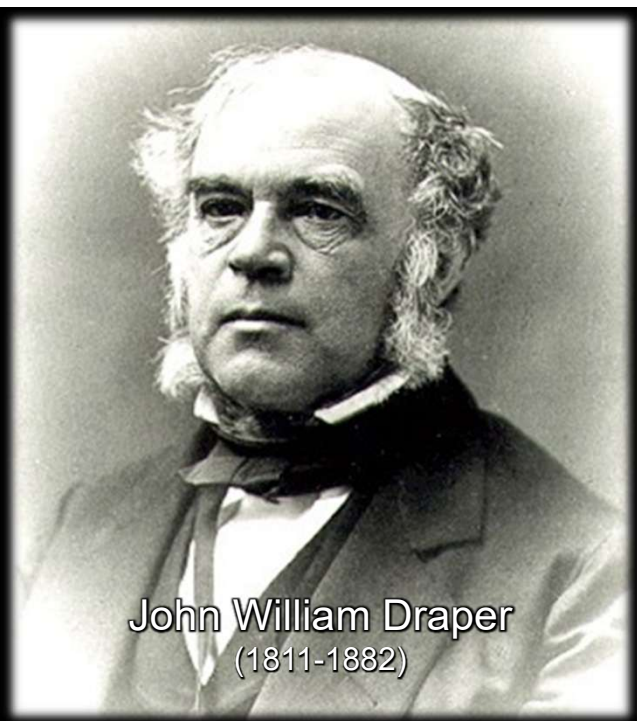
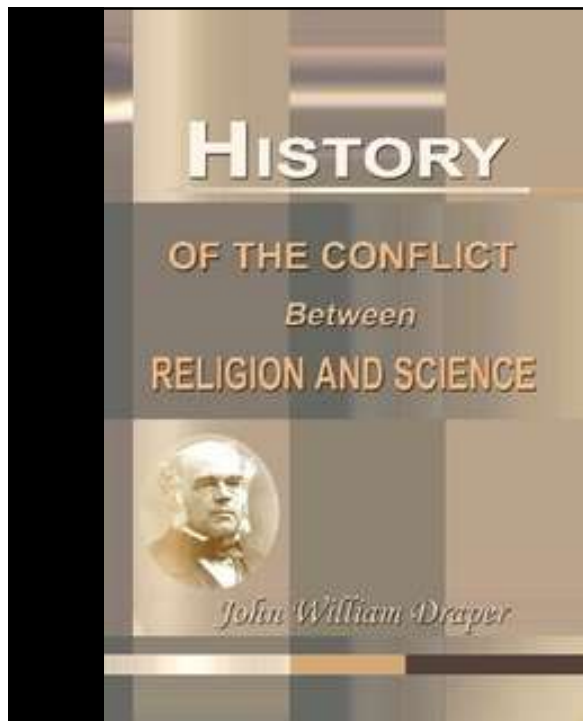
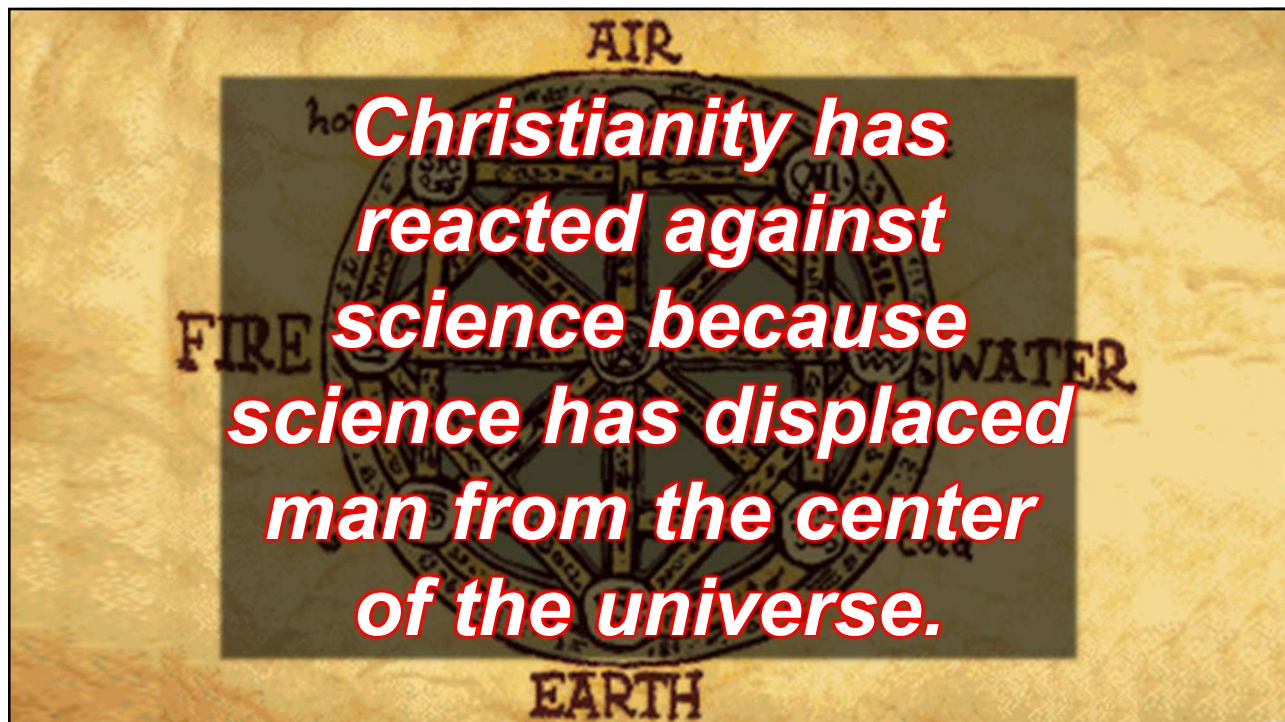


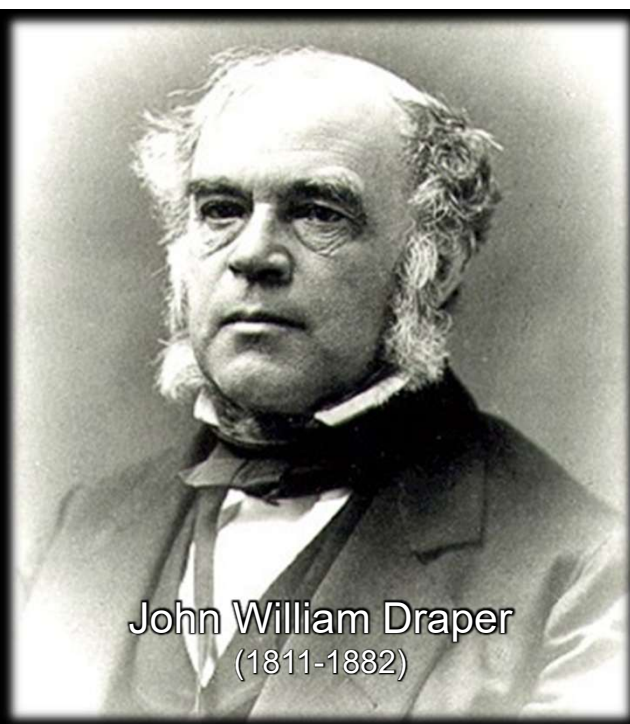
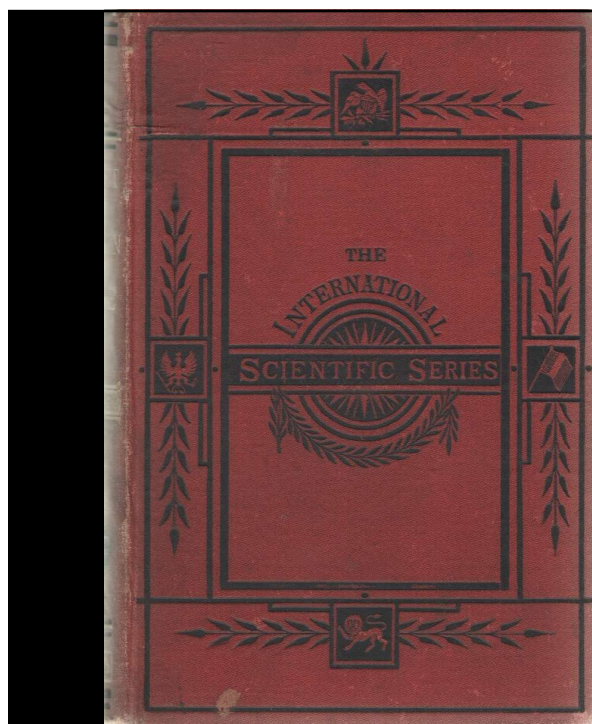
***Virtual particles
prove that
something can
come from nothing.***



***If God created the
biological
complexity of the
world, He must be
no less complex.***







Born in England, but settled in Virginia

1st President of the American Chemical Society

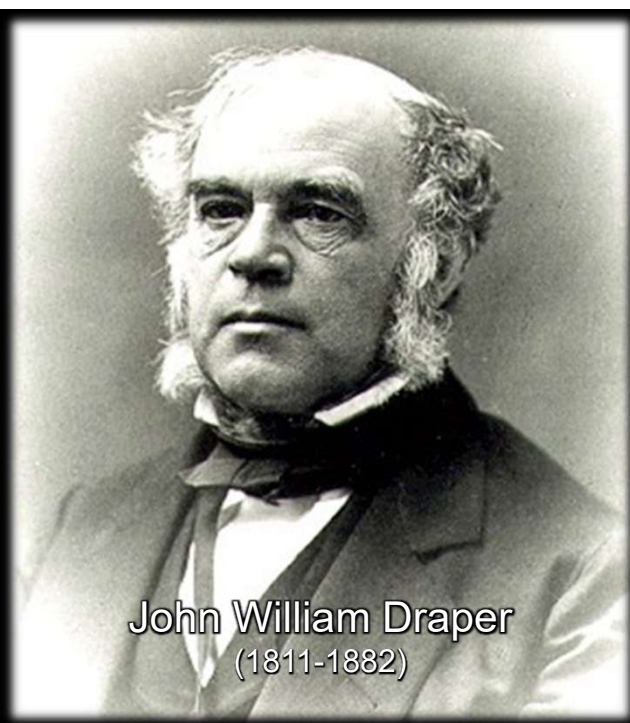
A founder of the New York University School of Medicine

Taught chemistry at New York University from 1840-1850

Made significant advances in photochemistry

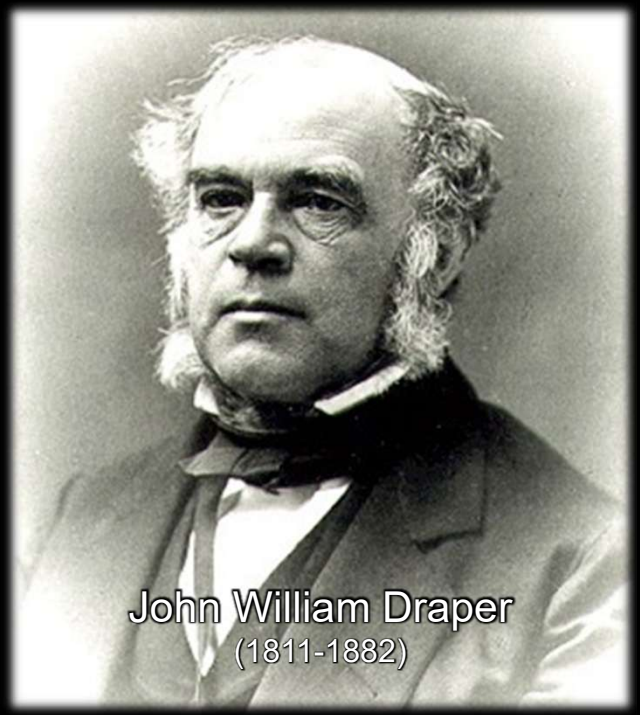
1st person to photograph an astronomical object (Moon)

Also authored "The History of the Intellectual Development of Europe"



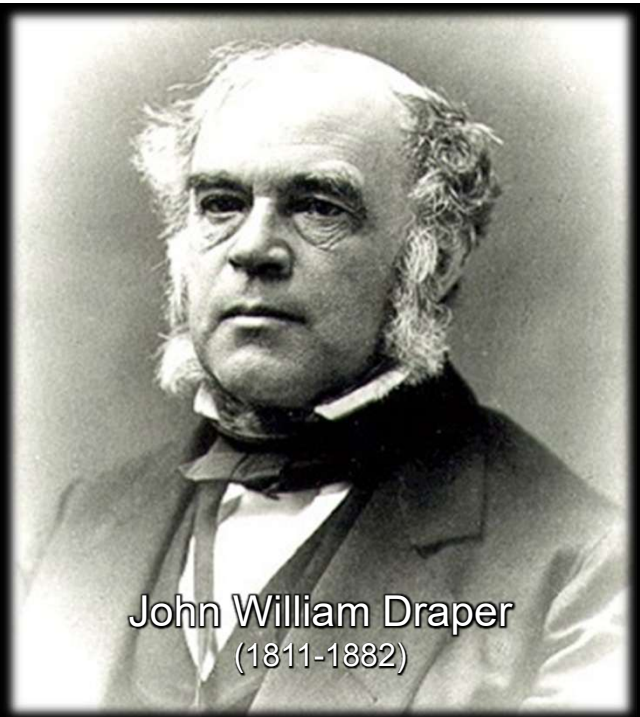
"In thus denouncing the Copernican system as being in contradiction to revelation, the ecclesiastical authorities were doubtless deeply moved by inferential considerations. To dethrone the earth from her central dominating position, to give her many equals and not a few superious, seem to diminish her claims upon the Divine regard."

[Draper, *History*, 168-169]



John William Draper
(1811-1882)

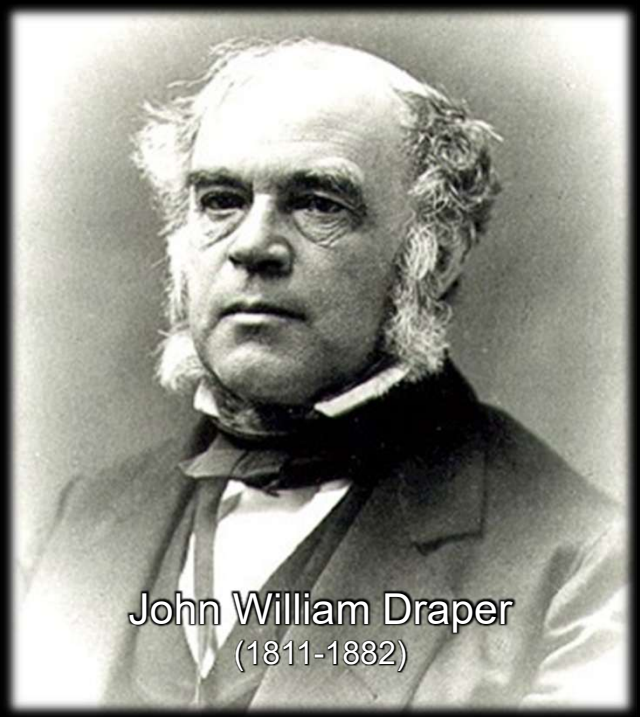
"The point here contested was one which is for mankind of the highest interest, because of the rank it assigns to the globe that we inhabit. If the earth be immovable in the midst of the universe, man has a right to regard himself as the principle object of the card of Nature."



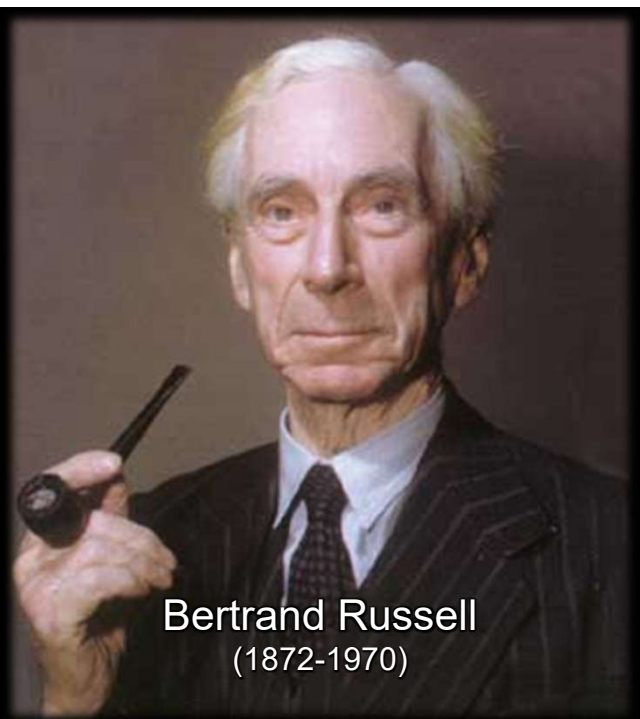
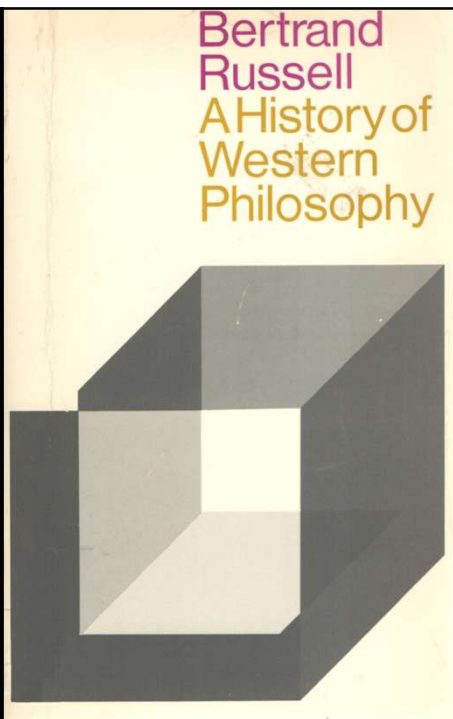
John William Draper
(1811-1882)

"But if the earth be only one of the planets revolving round the sun, an insignificant body in the solar system, she will disappear entirely in the immensity of the heavens, in which this system, vast as it may appear to us, is nothing but an insensible point."

[Draper, *History*, 172]



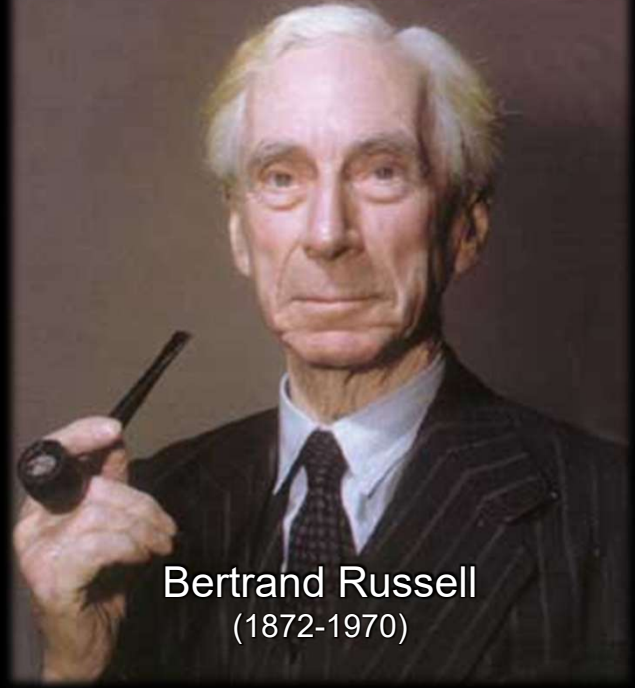
John William Draper
(1811-1882)



Bertrand Russell
(1872-1970)

"Although most of the men of science were models of piety, the outlook suggested by their work was disturbing to orthodoxy, and the theologians were quite justified in feeling uneasy."

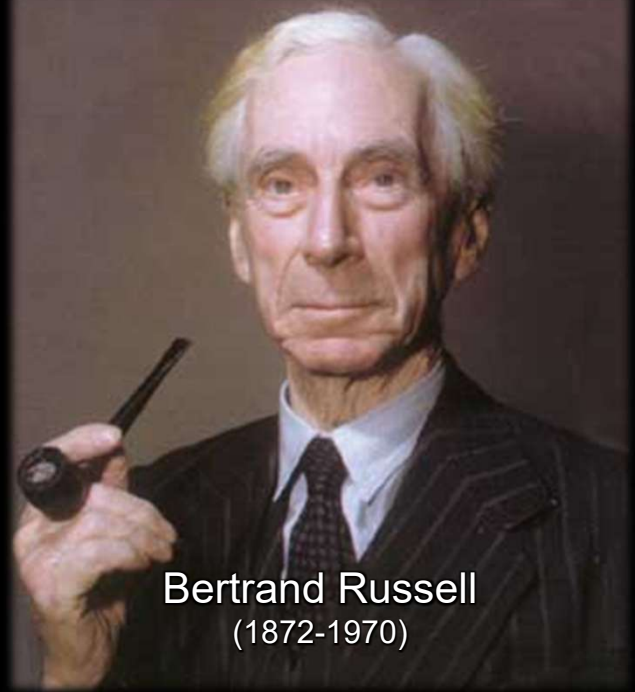
[Bertrand Russell, *A History of Western Philosophy*, 537]



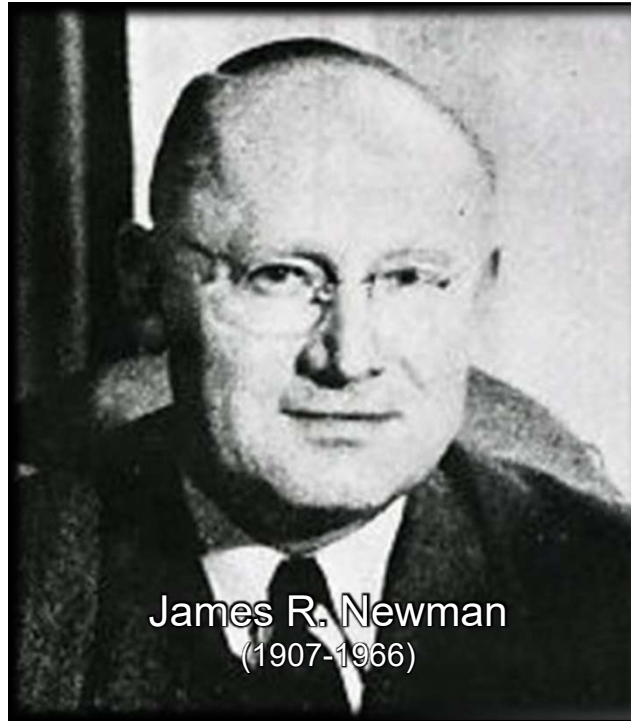
Bertrand Russell
(1872-1970)

"Another thing that resulted from science was a profound change in the conception of man's place in the universe. In the medieval world, the earth was the centre of the heavens, and everything had a purpose concerned with man. In the Newtonian world, the earth was a minor planet of a not specially distinguished star."

[Bertrand Russell, *A History of Western Philosophy*, 537]



Bertrand Russell
(1872-1970)

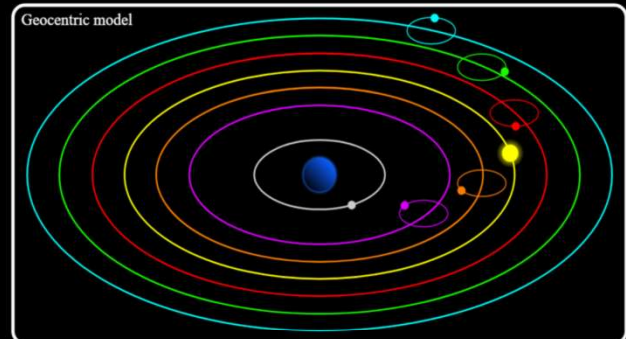


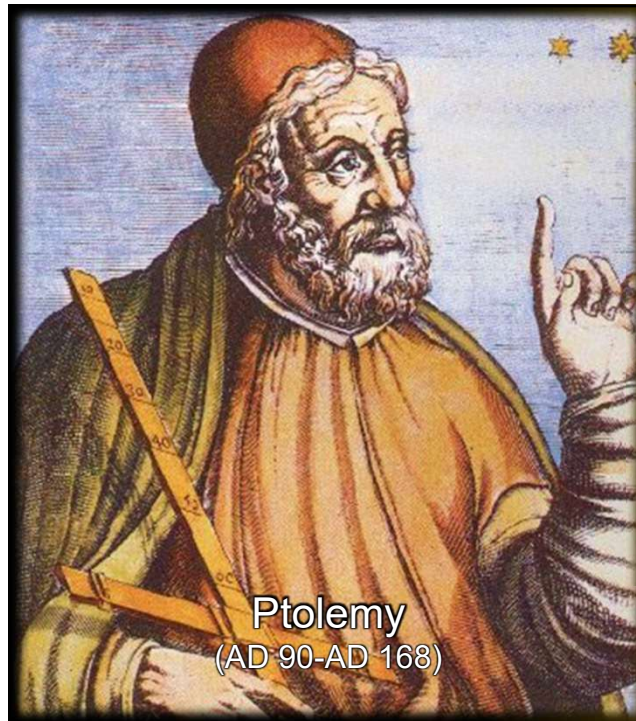
James R. Newman
(1907-1966)

"Looking backward in history, it is easy for us to see that a moving earth and sun-centred universe gravely subverted Christian theology. If man's abode was not at the centre of things, how could he be king?."

[James R. Newman, *Science and Sensibility* (New York: Simon and Schuster, 1961), 1:54, 56, as cited in Philip J. Sampson, *Six Modern Myths about Christianity and Western Civilization* (Downers Grove: InterVarsity, 2001), 33]

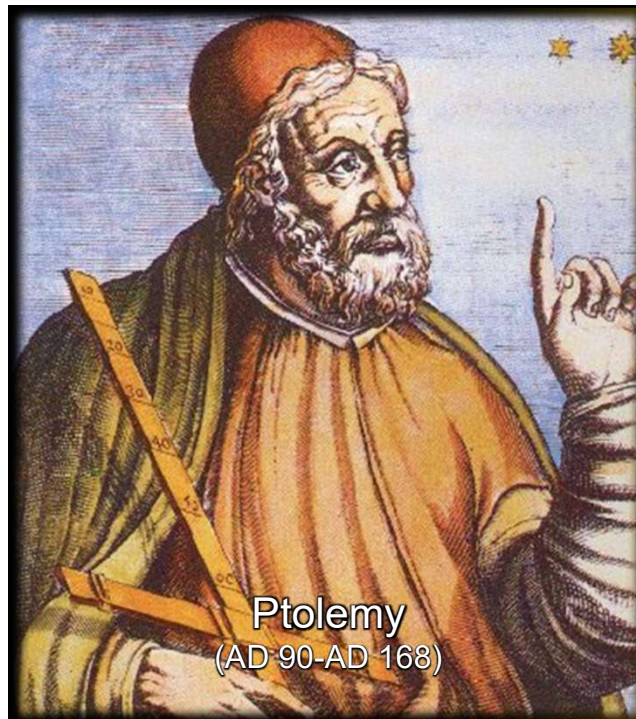
The old system, known as geocentrism (from the Greek γῆ (gē), Earth), taught that the Earth was immobile and the Sun was moving.





Ptolemy
(AD 90-AD 168)

**It was pioneered
by the Greek
astronomer
Ptolemy.**

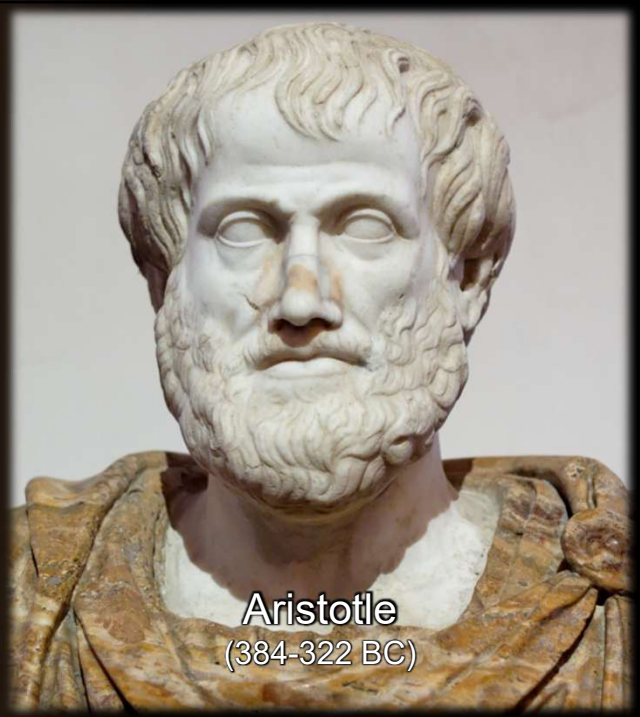


Ptolemy
(AD 90-AD 168)

"Now with this done, if one should next take up the question of the earth's position, the observed appearances with respect to it could only be understood if we put it in the middle of the heavens as the center of the sphere [of the heavens]."

[The Almagest, I, 5, transl. R. Catesby Taliaferro in *Great Books of the Western World*, ed. in chief Robert Maynard Hutchins (Chicago: Encyclopedia Britannica, 1952), vol. 16, 9]

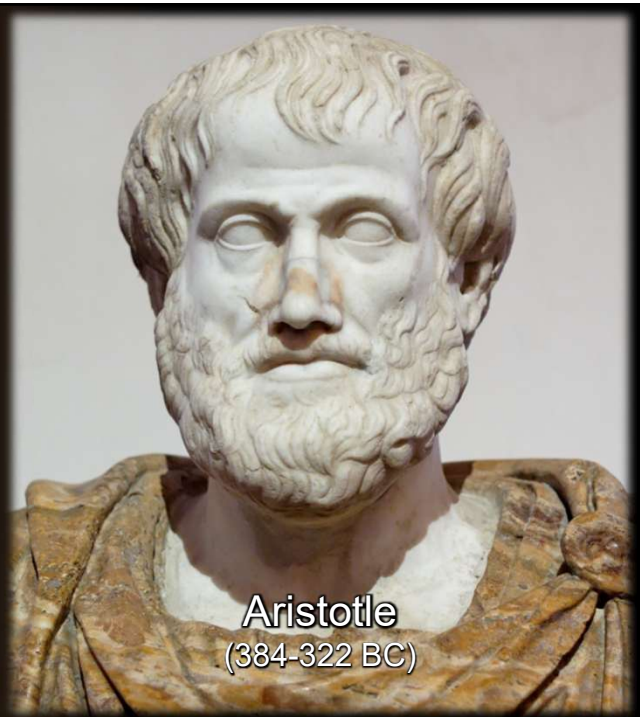
**This old system
was based
primarily on the
thinking of
Aristotle.**



Aristotle
(384-322 BC)

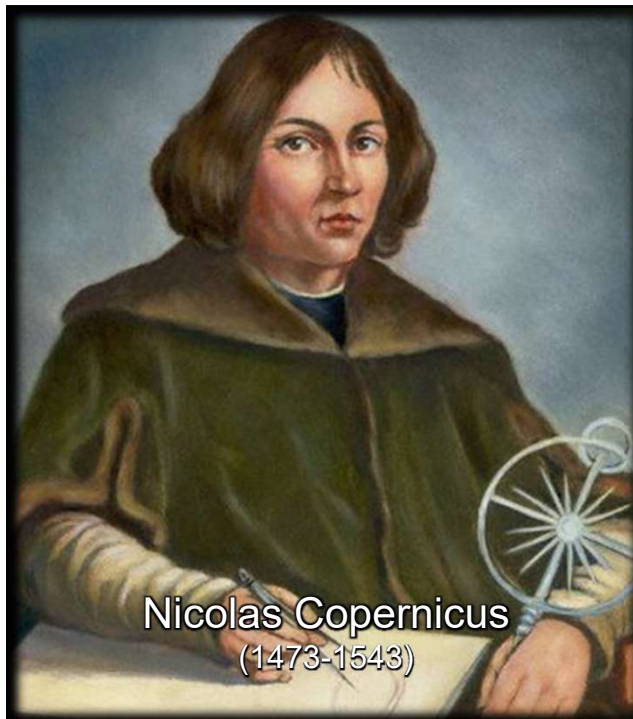
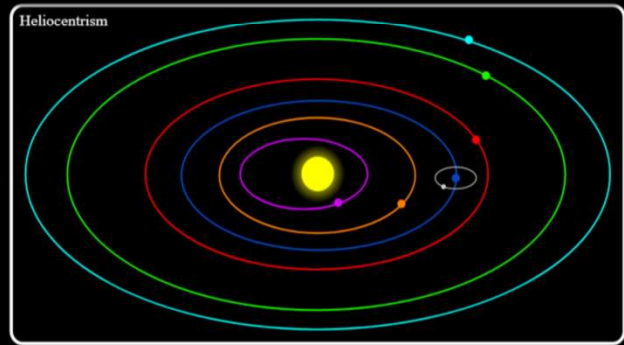
***"From these
considerations then
it is clear that the
earth does not move
and does not lie
elsewhere than at
the center."***

[The Basic Works of Aristotle, ed. Richard McKeon, On the Heavens, II,
14, 296^a26, transl. J. L. Stocks]



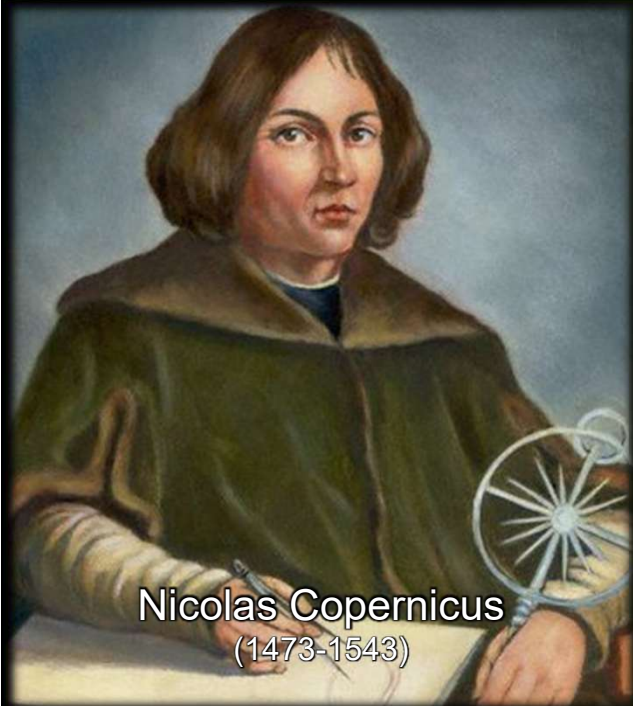
Aristotle
(384-322 BC)

**The new system,
known as
heliocentrism (from
ἥλιός (helios), Sun)
taught that the Sun
was immobile and
that Earth was
moving.**



Nicolas Copernicus
(1473-1543)

**It was pioneered
by the Polish
astronomer
Nicolas
Copernicus.**



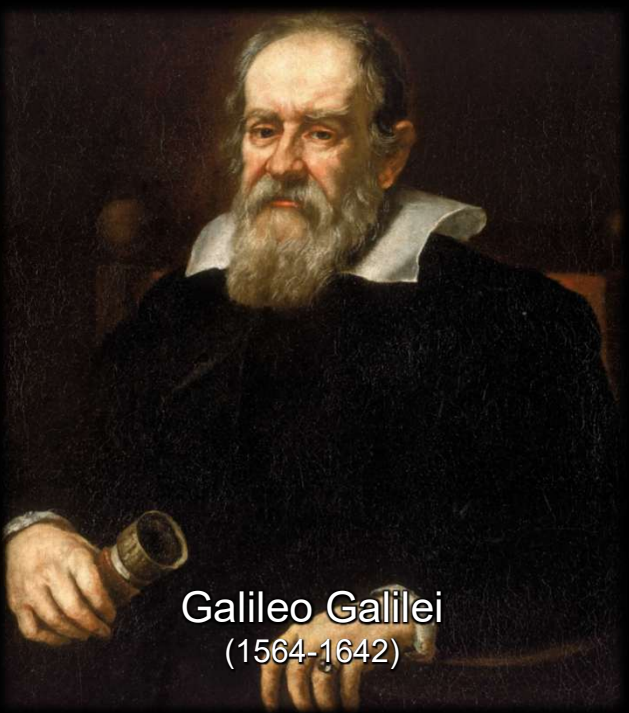
Nicolas Copernicus
(1473-1543)

"The hypothesis of this work ... sets the earth in motion and puts an immovable sun at the center of the universe."

[On the Revolutions of the Heavenly Spheres, I, transl. Charles Glenn Wallis in *Great Books of the Western World*, ed. in chief Robert Maynard Hutchins (Chicago: Encyclopedia Britannica, 1952), vol. 16, p. 505]

A portrait of Nicolas Copernicus, a Polish astronomer, mathematician, and engineer. He is depicted from the chest up, wearing a dark green robe with a brown collar. He has short, wavy brown hair and is looking slightly to the right. He is holding a large, white, spoked wheel or gear in his left hand. The background is a plain, light blue-grey color.

This new system was championed by the scientist Galileo Galilei.

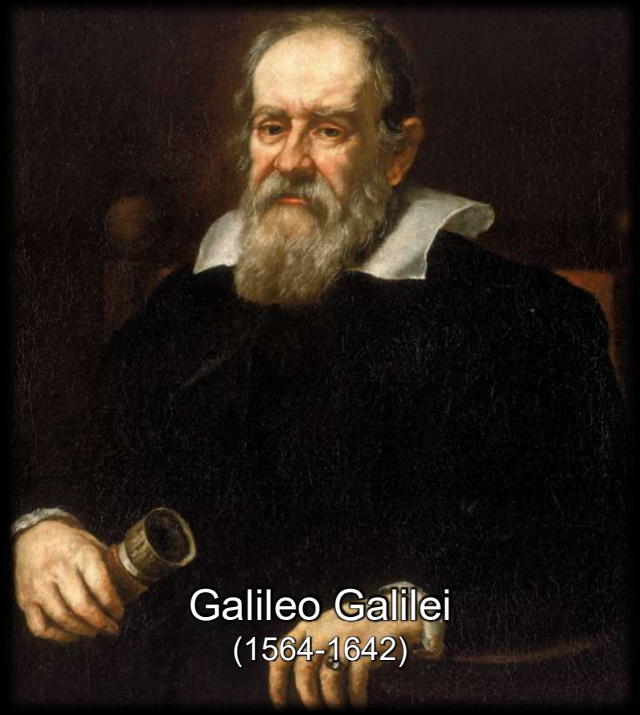


Galileo Galilei
(1564-1642)

A portrait of Galileo Galilei, an Italian astronomer, physicist, and engineer. He is depicted from the chest up, wearing a dark, heavy robe with a white ruffled collar. He has a long, full white beard and is looking directly at the viewer. He is holding a telescope in his right hand. The background is dark and indistinct.

"Now if it is true that the center of the universe is that point around which all the orbs and world bodies (that is, the planets) move, it is quite certain that not the earth, but the sun, is to be found at the center of the universe."

["Dialogue Concerning the Two Chief World Systems," in *The World of Physics: A Small Library of the Literature of Physics from Antiquity to the Present*, 3. vols. (New York: Simon and Schuster, 1987), vol. 1, p. 457]



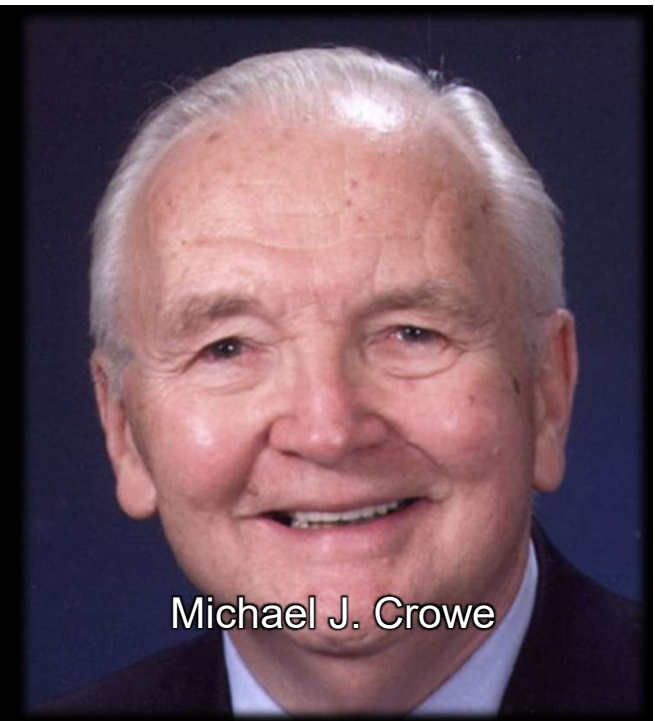
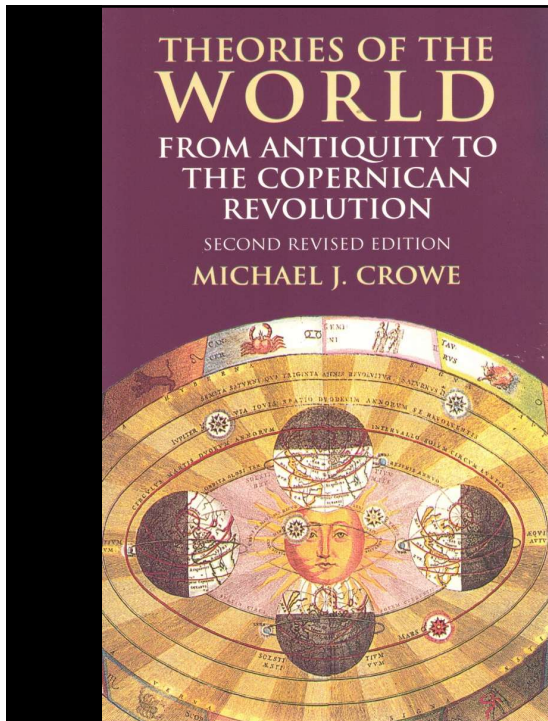
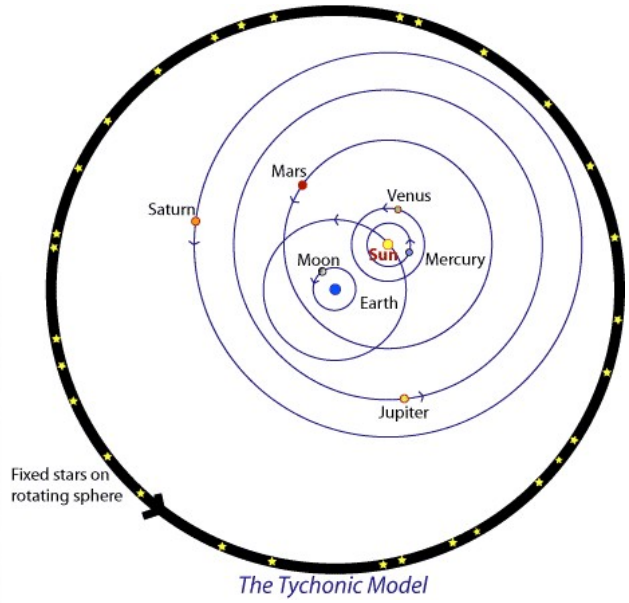
Galileo Galilei
(1564-1642)



Tycho Brahe
(1546-1601)



Tycho Brahe
(1546-1601)



Michael J. Crowe



***"In the case of the universe
... the nearer the parts are to
the center, the greater is their
turbidness, their solidity,
their inertness, their dimness
and darkness, because they
are further away from the
loftiest element, from the
source of light and
brightness."***

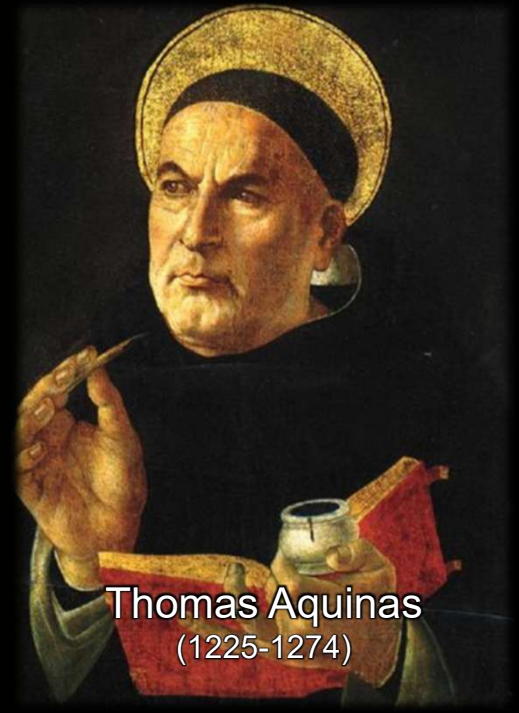
The Guide for the Perplexed, trans. M. Friedländer, 2nd ed. (New York: Dutton, 1919), 116-119 cited in "That Copernicanism Demoted Humans from the Center of the Cosmos" in Ronald L. Numbers, ed. *Galileo Goes to Jail and Other Myths about Science and Religion* (Cambridge: Harvard University Press, 2009), 53.



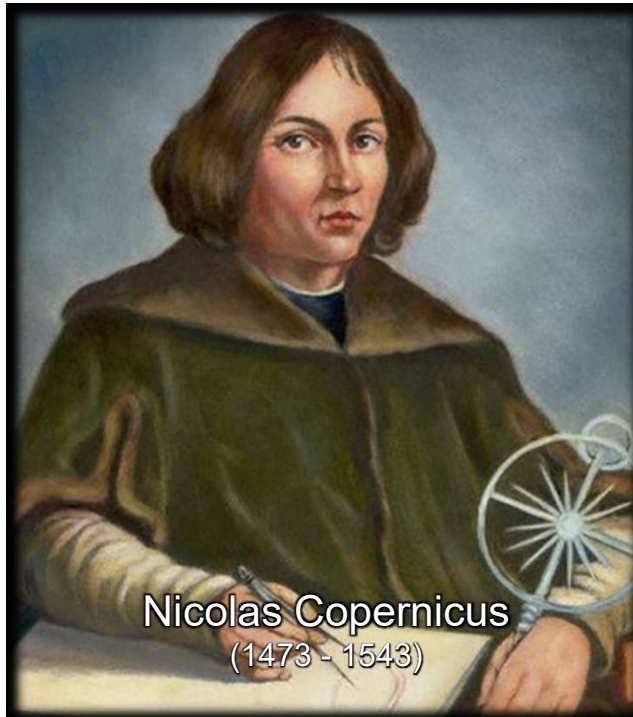
Moses Maimonides
(1138-1204)

***"In the universe, earth—
that all the spheres
encircle and that, as for
place, lies in the
center—is the most
material and coarsest
(ignobilissima) of all
bodies."***

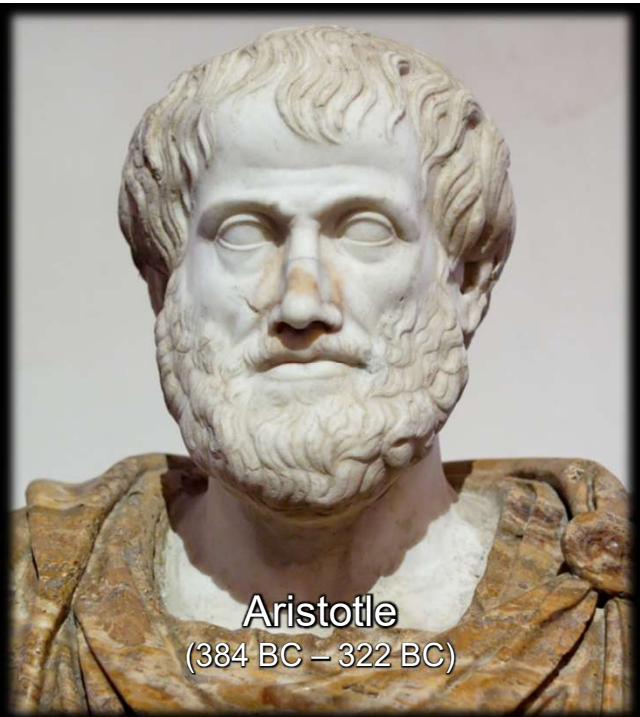
Commentary on Aristotle's *De Caelo*, II, xiii, 1 & xx, n. 7, in vol. 3, 202b of the Leonia ed.; trans. and quoted by René Brague, "Geocentrism as a Humiliation for Man," *Medieval Encounters* 3 (1997): 187-210 (202) cited in "That Copernicanism Demoted Humans from the Center of the Cosmos" in Ronald L. Numbers, ed. *Galileo Goes to Jail and Other Myths about Science and Religion* (Cambridge: Harvard University Press, 2009), 53.



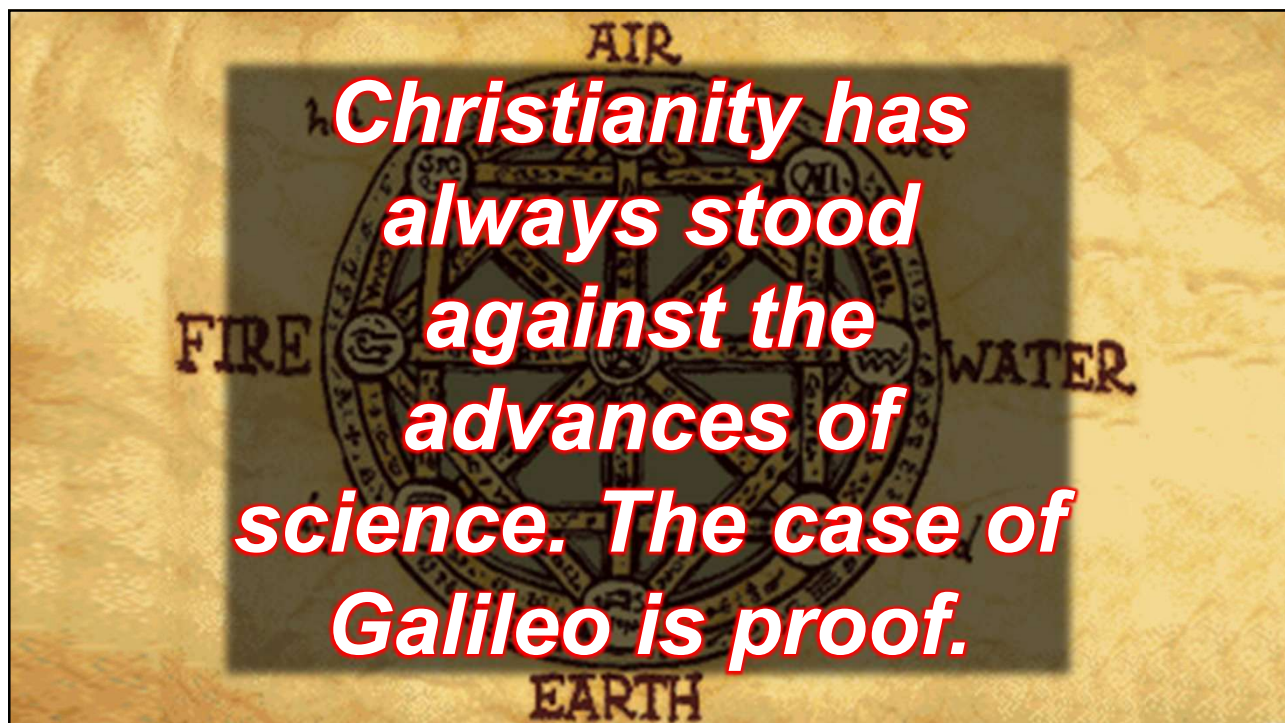
Thomas Aquinas
(1225-1274)

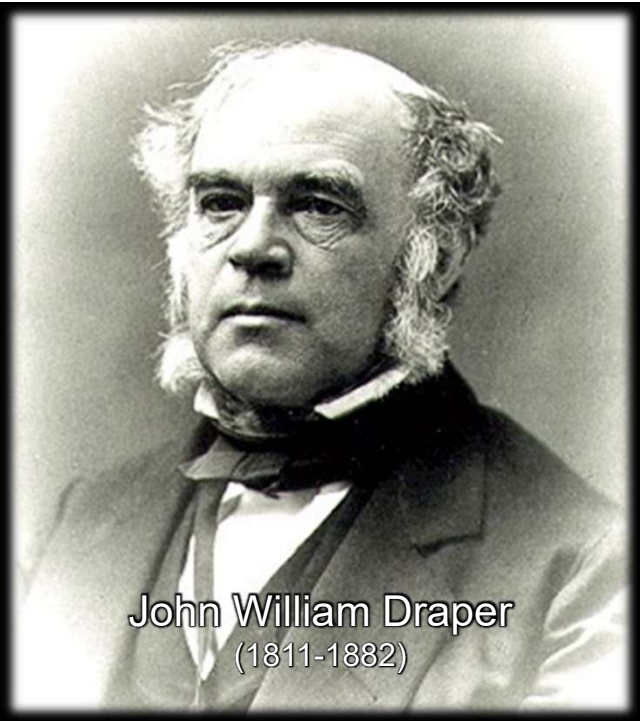
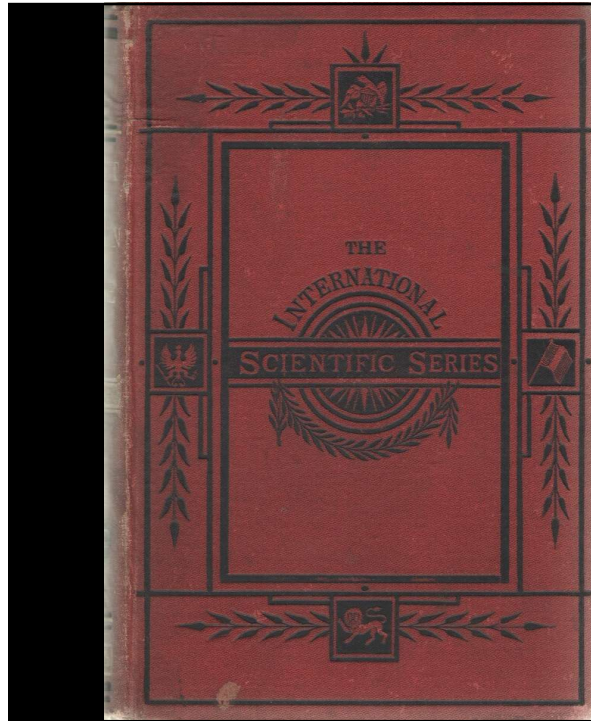


Nicolas Copernicus
(1473 - 1543)



Aristotle
(384 BC – 322 BC)

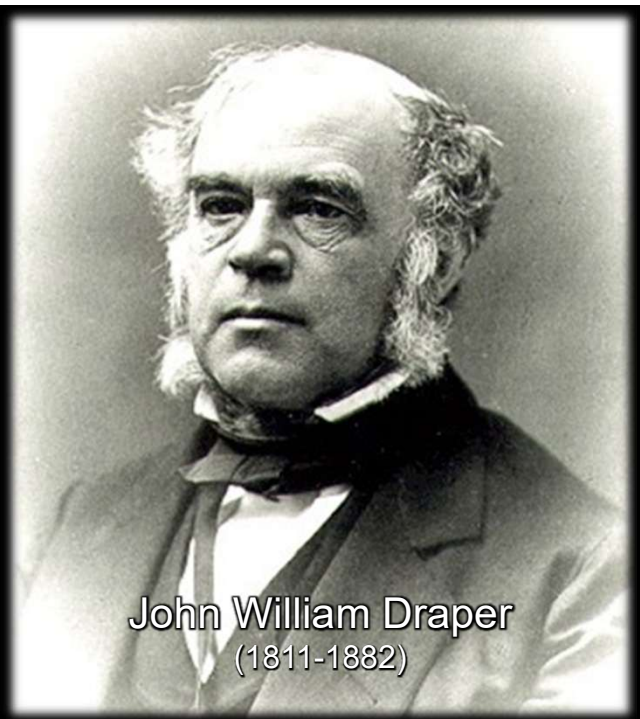




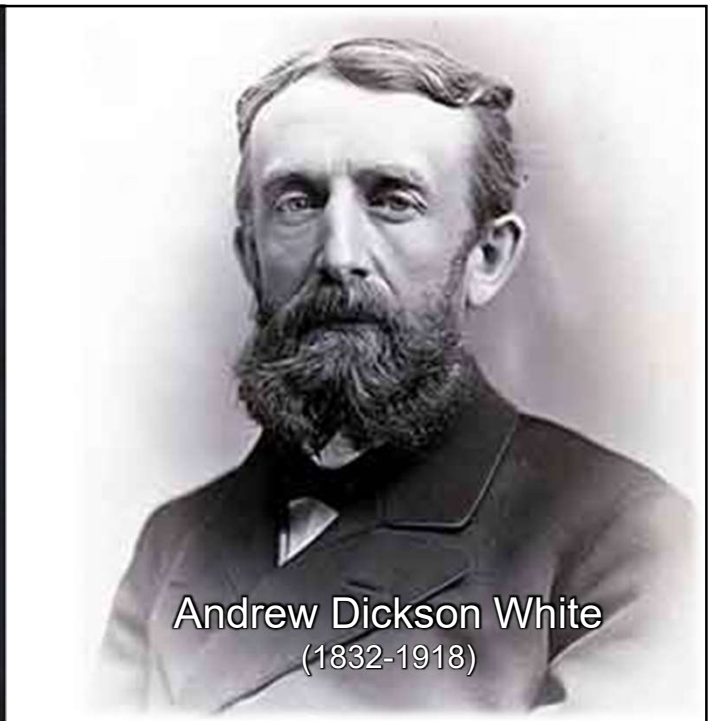
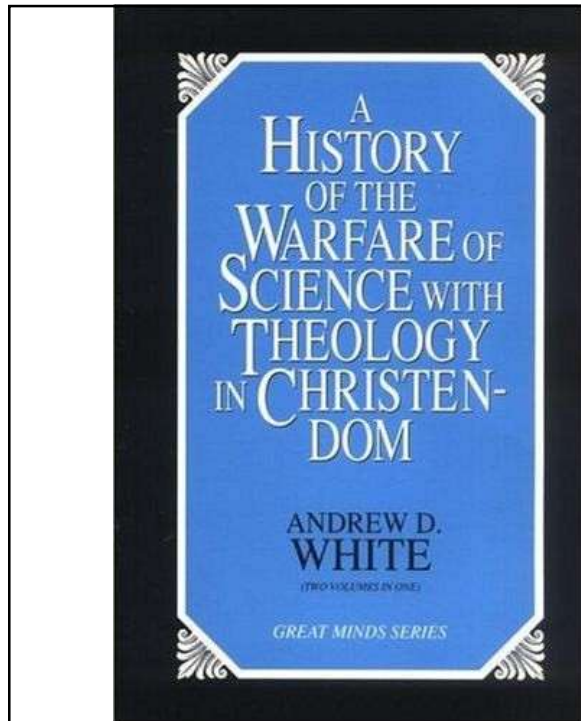
John William Draper
(1811-1882)

"The history of Science is not a mere record of isolated discoveries; it is a narrative of the conflict of two contending powers, the expansive force of the human intellect on the one side, and the compression arising from traditional faith and human interest on the other."

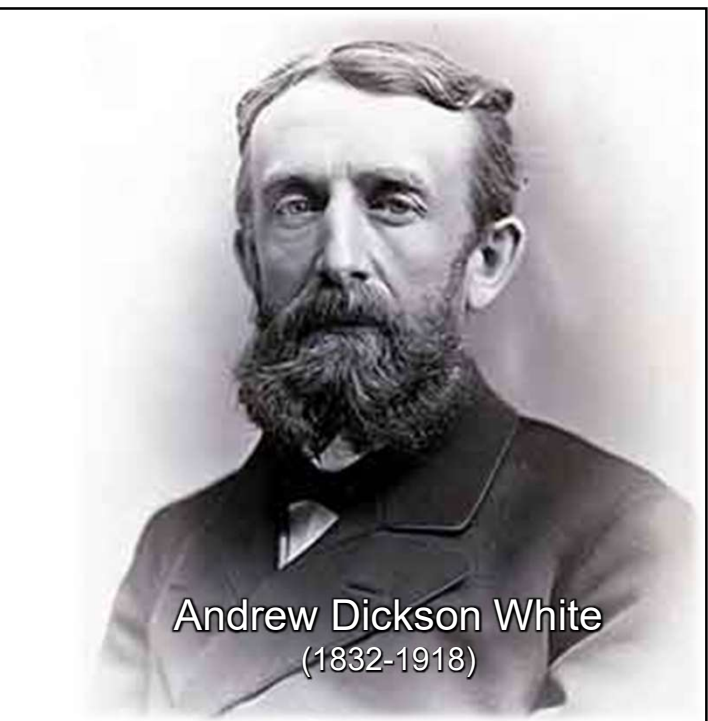
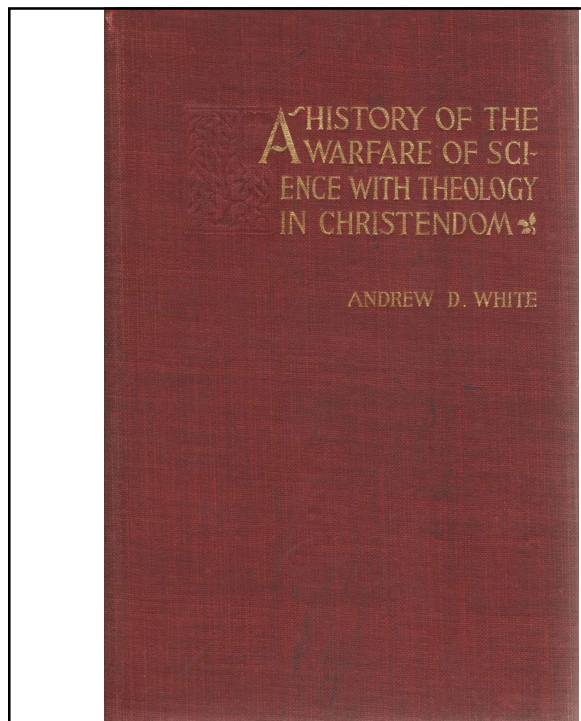
[John William Draper, *The International Scientific Series, Vol. 12: History of the Conflict between Religion and Science* (New York: D. Appleton and Co. 1879), vi]



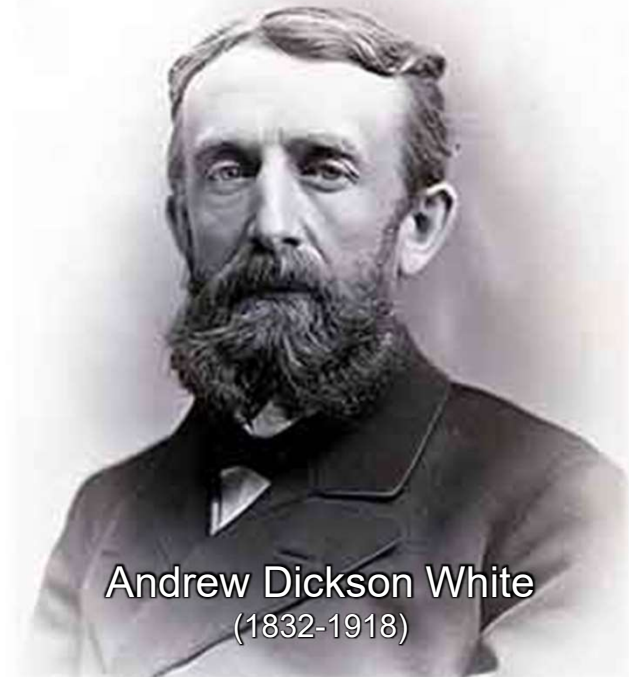
John William Draper
(1811-1882)

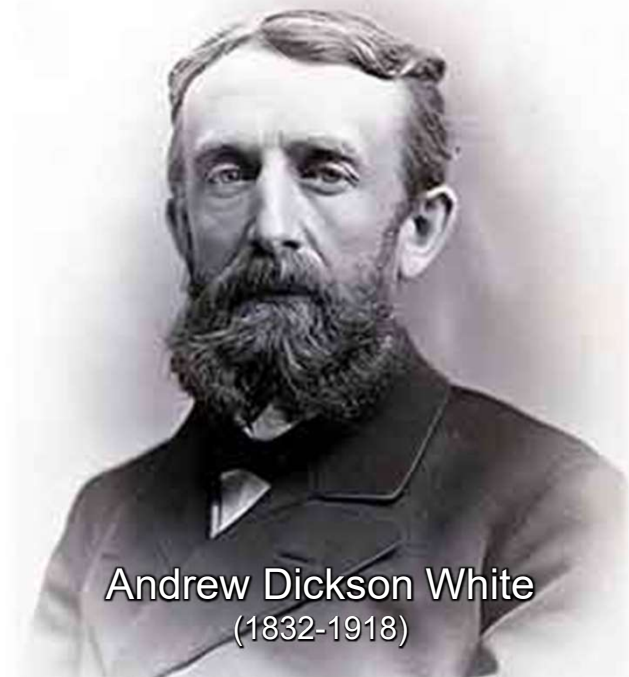


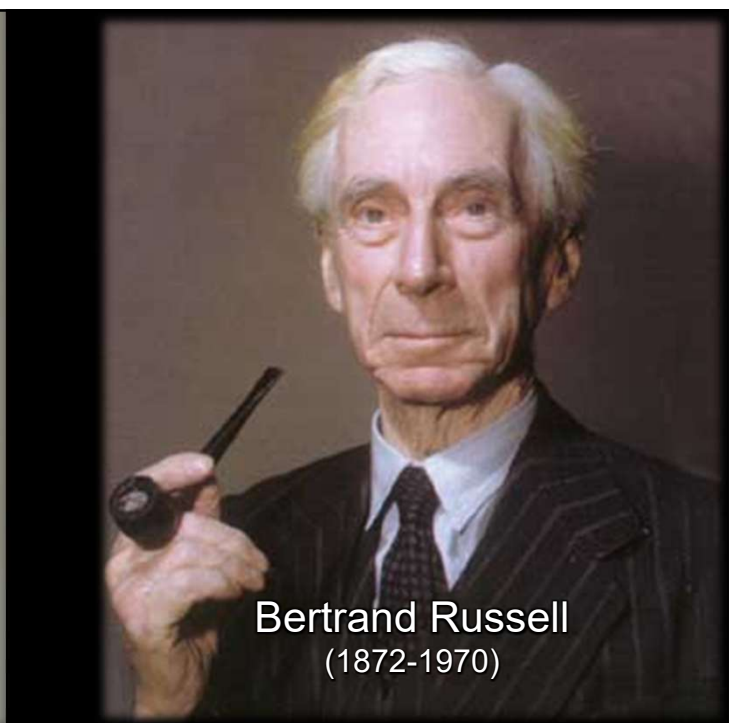
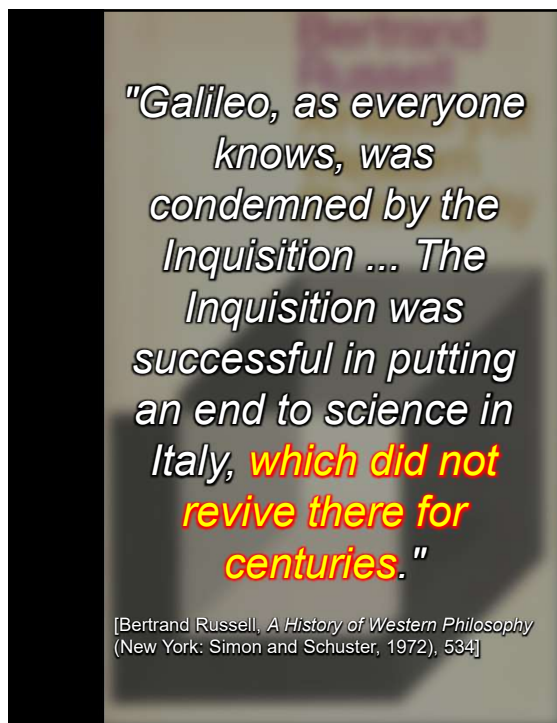
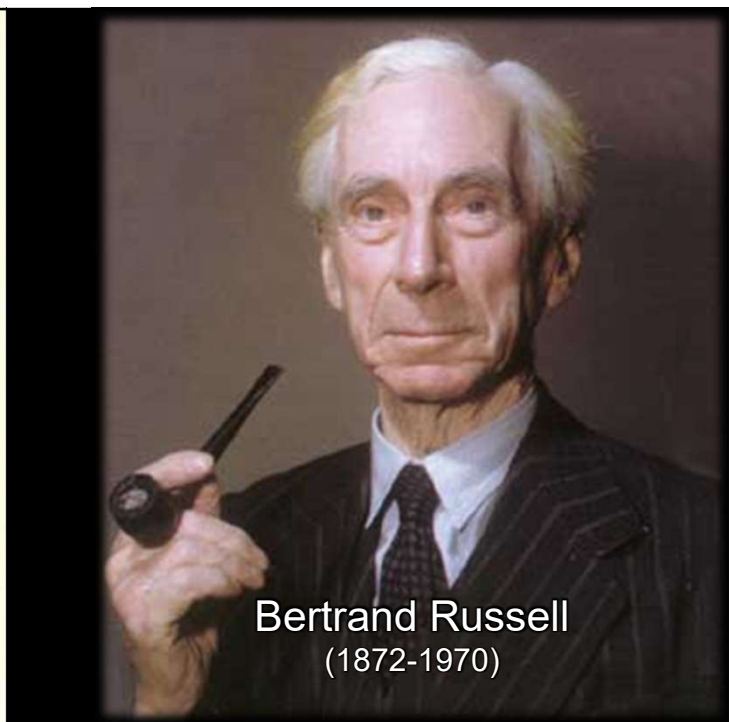
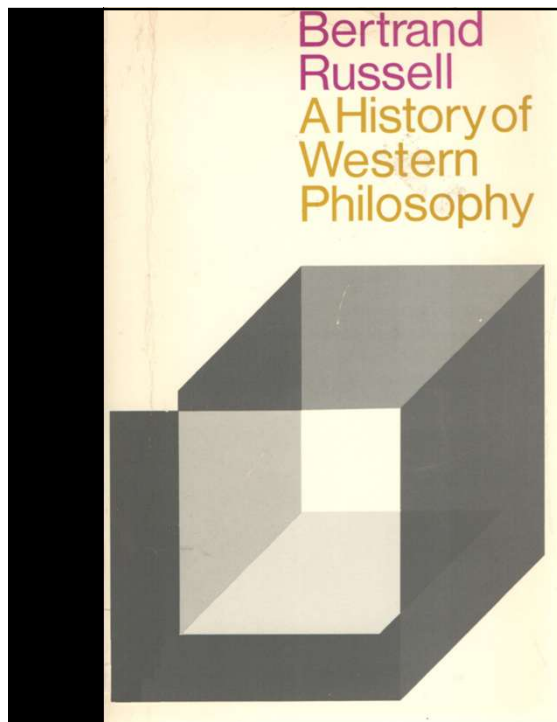
Andrew Dickson White
(1832-1918)



Andrew Dickson White
(1832-1918)

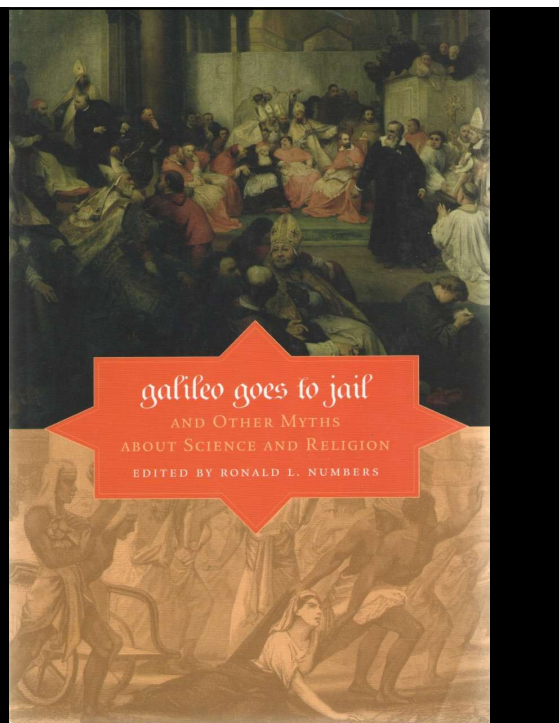
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| <p>1st President of Cornell University</p> <p>1st President of the American Historical Association</p> <p>US Ambassador to Germany and Russia</p> <p>His second wife (White was a widower), Helen Magill, was the first woman to earn a Ph.D. in the United States</p> |  <p>Andrew Dickson White (1832-1918)</p> |
|--|--|


| | |
|--|--|
| <p><i>"Much as I admired Draper's treatment of the questions involved, his point of view and mode of looking at history were different from mine. He regarded the struggle as one between Science and Religion. I believed then, and am convinced now, that it was a struggle between Science and Dogmatic Theology"</i></p> <p>[Andrew D. White, <i>A History of the Warfare of Science with Theology in Christendom</i> (New York: D. Appleton and Co., 1896), ix]</p> |  <p>Andrew Dickson White (1832-1918)</p> |
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Ronald L. Numbers
(1942-2023)

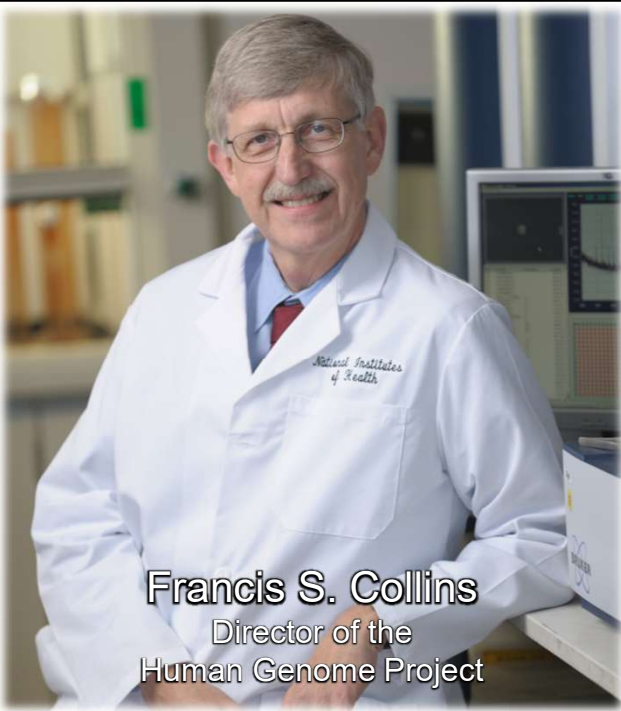




Ronald L. Numbers
(1942-2023)

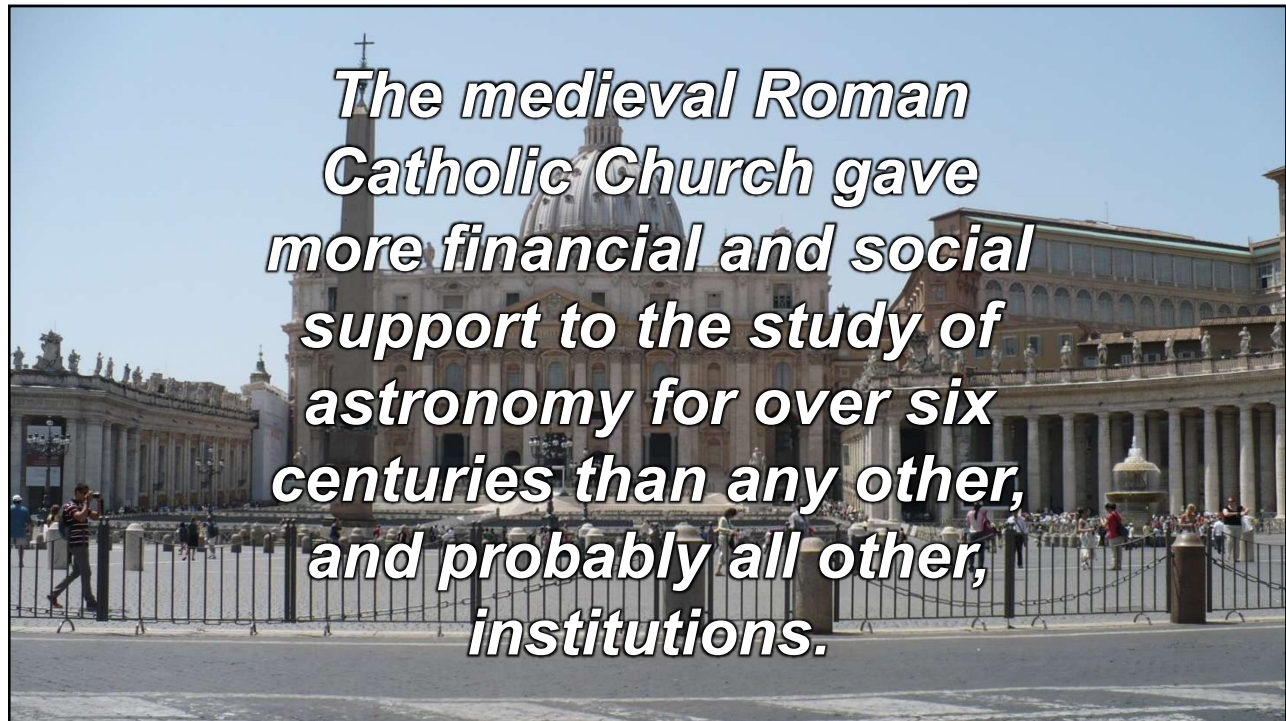
"The greatest myth in the history of science and religion holds that they have been in a state of constant conflict. No one bears more responsibility for promoting this notion than two nineteenth-century American polemicists: Andrew Dickson White (1832-1918) and John William Draper (1811-1882)."

[Galileo Goes to Jail and Other Myths about Science and Religion (Cambridge: Harvard University Press, 2009), 1-2]



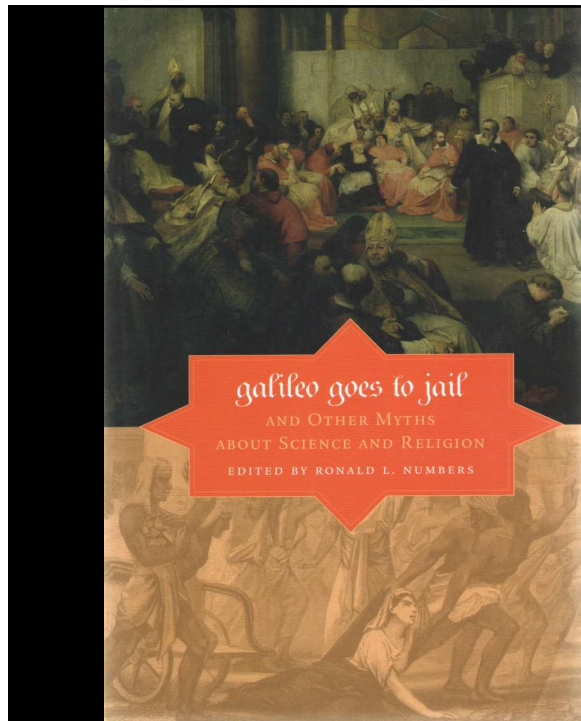
"One of the greatest tragedies of our time is this impression that has been created that science and religion have to be at war."

Francis S. Collins
Director of the
Human Genome Project





By 1500 there were about 60 universities across Europe educating a cumulative total of several hundred thousands students.



Michael H. Shank

"Between 1150 and 1500, more literate Europeans had had access to scientific materials than any of their predecessors in earlier cultures, thanks largely to the emergence, rapid growth, and naturalistic arts curricula of medieval universities."

[Michael H. Shank, "Myth 2: That the Medieval Christian Church Suppressed the Growth of Science," in Ronald L. Numbers, ed. *Galileo Goes to Jail and Other Myths about Science and Religion* (Cambridge: Harvard University Press, 2009), 26-27.]



Michael H. Shank

"If the medieval church had intended to suppress the inquiry into nature, it must have been completely powerless, for it utterly failed to reach its goal."

[Michael H. Shank, "Myth 2: That the Medieval Christian Church Suppressed the Growth of Science," in Ronald L. Numbers, ed. *Galileo Goes to Jail and Other Myths about Science and Religion* (Cambridge: Harvard University Press, 2009), 26-27.]



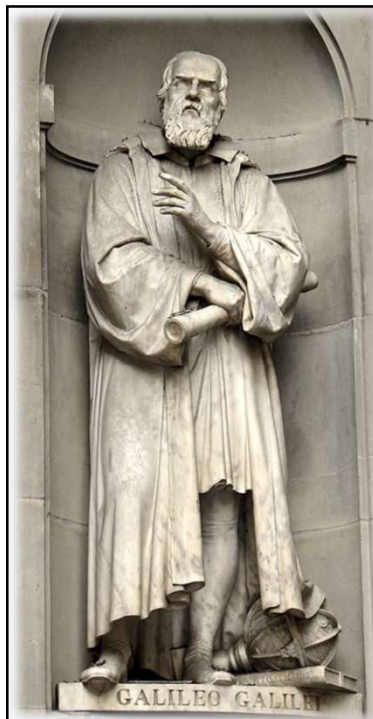
Michael H. Shank



Two things got Galileo into trouble.

1. *His attempts to interpret the Bible to render it consistent with his scientific views*

This got him in trouble primarily with the Church officials.



Two things got Galileo into trouble.

2. *His rejection of the Aristotelian model of the cosmos*

This got him in trouble with both the church officials and the scientific community.



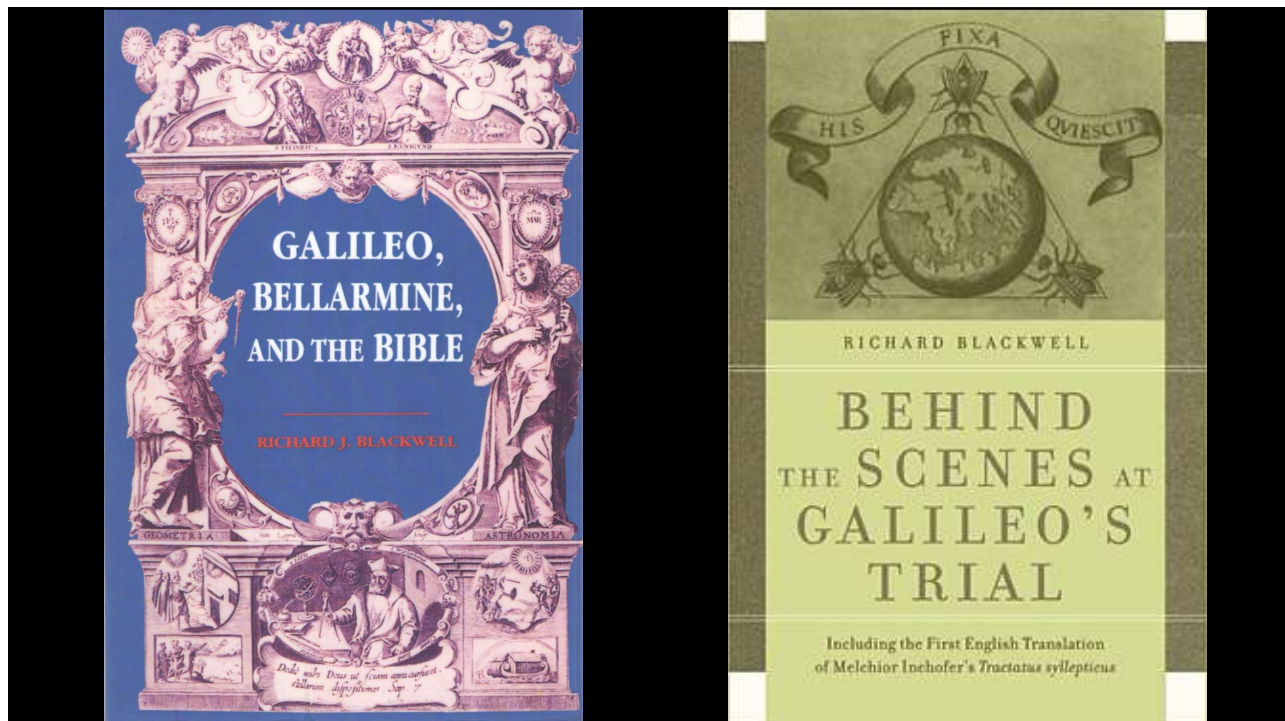
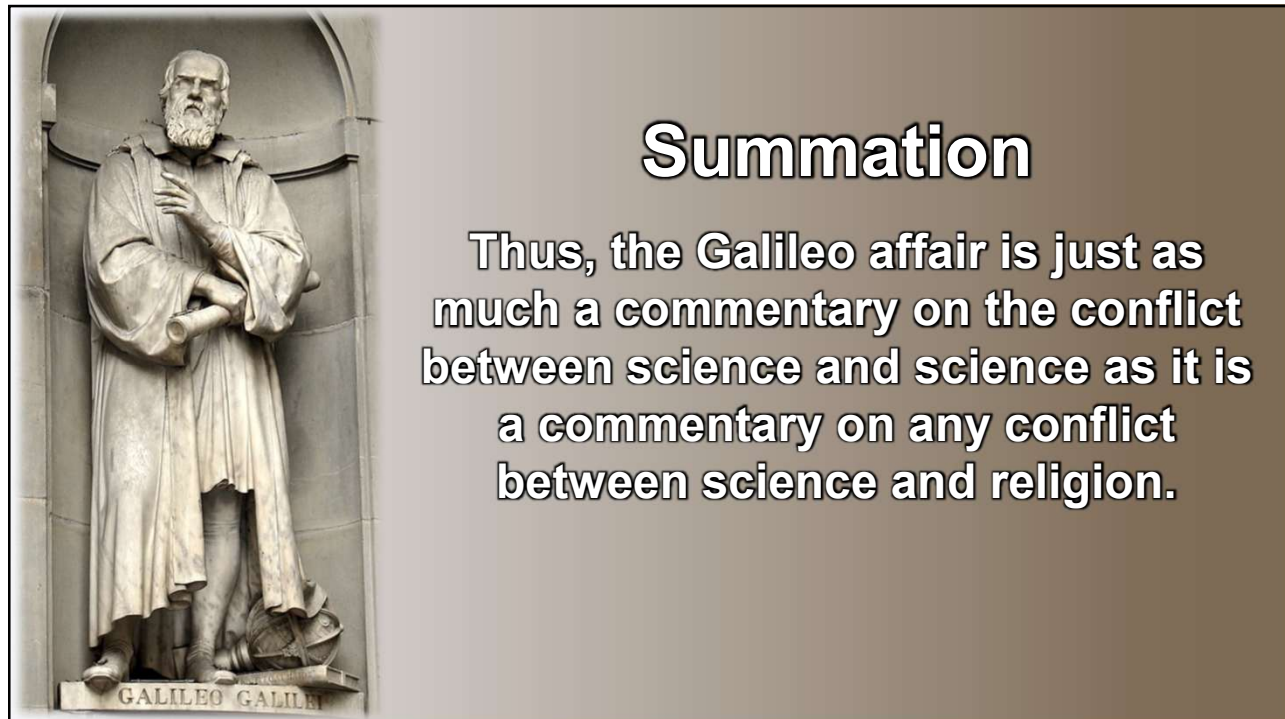
Summation

While there can be no doubt that Galileo's embracing the Copernican system got him into serious trouble with the Church officials . . .




Summation

. . . it must be remembered that his views were just as much in conflict with the reigning scientific views of the universities as they were with the reigning theological views of the Church.



THE GALILEO AFFAIR



A Documentary History

Maurice A. Finocchiaro

Galileo's Misstatements about Copernicus

By Edward Rosen *

A RECENT English translation¹ of selections from the writings of Galileo (1564–1642) will doubtless bring to the attention of many readers the statements about Copernicus (1473–1543) in the great Italian scientist's *Letter to the Grand Duchess Christina*. These statements by Galileo contain five serious historical errors. To impede their further spread is the aim of the present article.

The first of the five errors occurs in Galileo's remark that "Nicholas Copernicus . . . was not only a Catholic, but a priest and a canon."² In a preliminary formulation³ he had said: "Nicholas Copernicus was not only a Catholic, but a member of the regular clergy and a canon."⁴ In both these versions,

* Massachusetts Institute of Technology. This paper was read on 21 July 1977 to Professor Willy Hartner's Seminar, Institut für Geschichte der Naturwissenschaften, Johann-Wolfgang-Goethe Universität, Frankfurt-am-Main.

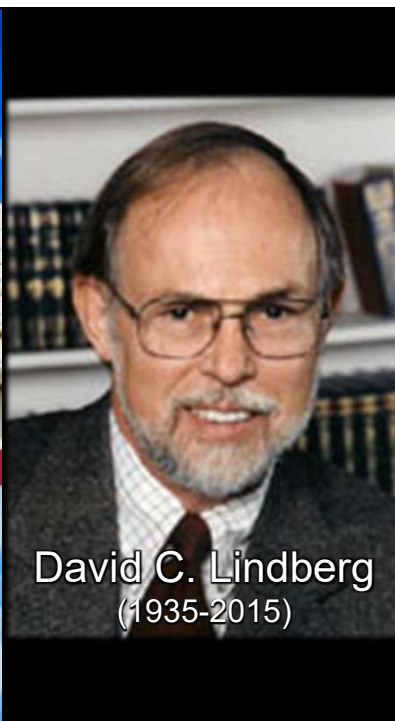
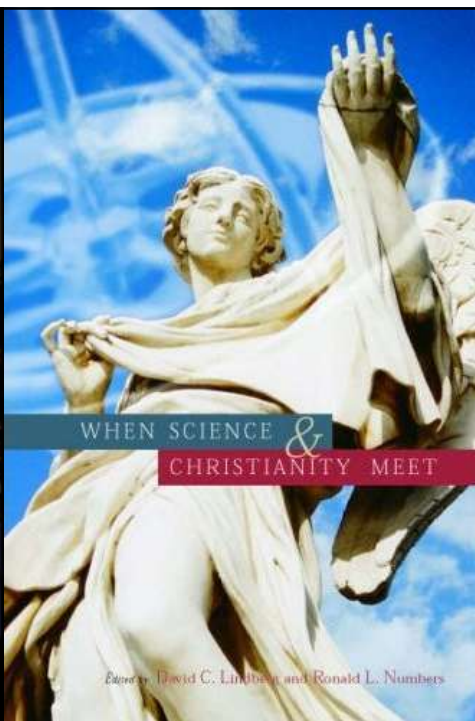
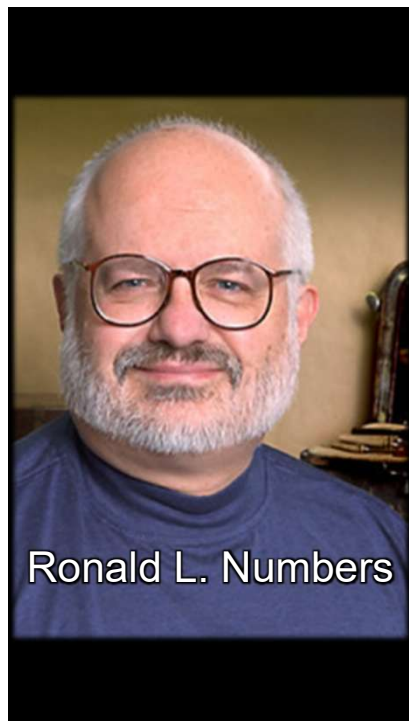
¹ *Discourses and epistles of Galileo*, translated by Stillman Drake (New York: Doubleday, 1957); reviewed in the *Journal of the History of Ideas*, 1957, 18: 439–448; by Edward Rosen, and in *Isis*, 1957, 48: 378–379; by Giorgio de Santillana.

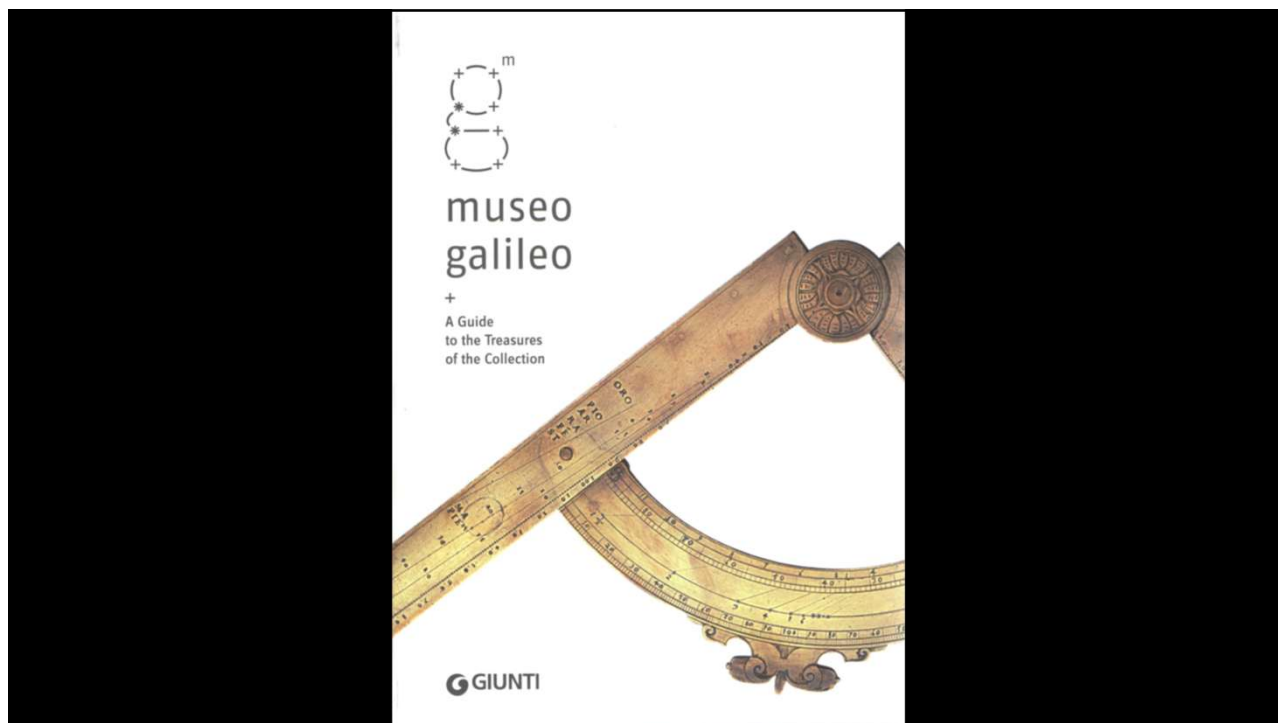
² Drake, p. 171. *Le opere di Galileo Galilei*, national edition (Florence, 1890–1909), reprinted 1929–1931; cited hereafter as "NE", V, 1124–6; "Nicholas Copernicus is . . . some non-subsistent ecclesiastical, no sacerdotè e canonico."

³ Galileo's letter of 18 February 1616 to his good friend Piero Dini, who was then an official at the papal court, and a few years later became an archbishop. Demetrio Marini (1882–1940). *La questione della riforma del calendario nel quinto concilio lateranense (1512–1517)*, *Pubblicazioni del r. Istituto di studi superiori in Firenze*, ser. II, seconda, 1926, 27: 218. Said that in Galileo's *Letter to the Grand Duchess* and in his letter to Dini there were "some minor errors" (qualche piccola inesattezza), without specifying what these minor errors were. Marini himself (p. 217) committed the major error of misquoting Galileo's letter to the "8 February 1612." The minor error of the date is Marini's, but a major error concerning the chronological relationship between the letter to Dini and the *Letter to the Grand Duchess* according to Marini (pp. 217–18). Galileo wrote the *Letter to the Grand Duchess* the year following ("Papa suggerì") his letter to Dini. Yet in the letter to Dini Galileo explained "what a pernicious thing it would be to proclaim as doctrine settled by Holy Scripture any proposition whose contrary may some day be demonstrated; with regard to these matters I have written a very extensive discussion, which is not yet in good enough condition for me to send you a copy, although I shall do so as soon as possible" (NE, V, 1124–6). Hence, despite Marini, Galileo did not write the *Letter to the Grand Duchess* in the year following his letter to Dini. In that letter Galileo described the *Letter to the Grand Duchess* as already written, lacking only the final touches. ("Ultima mano" NE, XII, 1828). Evidently Marini forgot that "10. Firenze, il 14 Febbraio 1614" (NE, V, 1124.18), the date of Galileo's letter to Dini, followed "the Florentine style which, as is known, from January to 31 March was a year behind the present modern style" (Marini, p. 20, n. 3). Marini himself (p. 124, n. 4) pointed out that a book dated as January 1514 by its Florentine publisher was actually issued, according to the modern style, in 1515. (cf. Marini, p. 141, n. 1).

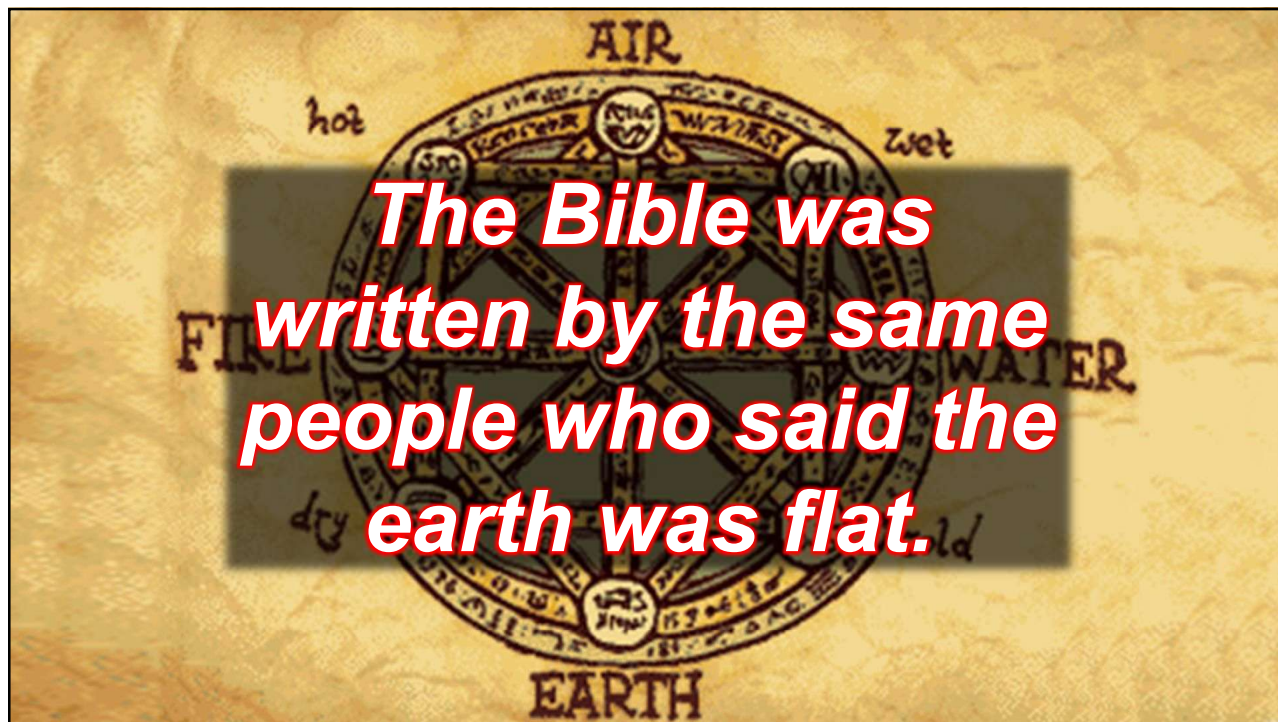
⁴ NE, V, 1122–23: "Nicholas Copernicus fu uomo non pur cattolico, ma religioso e canonico." If the word "e" is omitted from this sentence, "religioso" is transformed from a substantive into an adjective. As a substantive, "religioso" refers to a member of a religious order, but as an adjective, it merely means "religious." Hence the omission of "e" would cancel Galileo's description of Copernicus as a member of the regular clergy. This description is indeed missing in Emil Wobehl's (183–1914), *Galileo and the Copernican Revolution* (London: Duckworth, 1909–1928), I, 151, where Wobehl's paraphrase of Galileo's letter to Dini has Galileo say "Copernicus was not only a Catholic, but also a priest and a canon" (sic from the Kanonika), without any mention of his belonging to a religious order. Although Wobehl always cited NE in the published version of his book, he may actually have used Galileo's letter to Dini in an earlier edition which omitted the "e" (*Le opere di Galileo Galilei*, Florence, 1842–1878, ed. Eugenio Alberti, I, 171). Albert took the text of the letter (with "e" omitted) from Giambattista Venturi, *Memorie d'arte e lettere fiorentine a diverse di Galileo Galilei* (Modena, 1848–1871, I, 202).

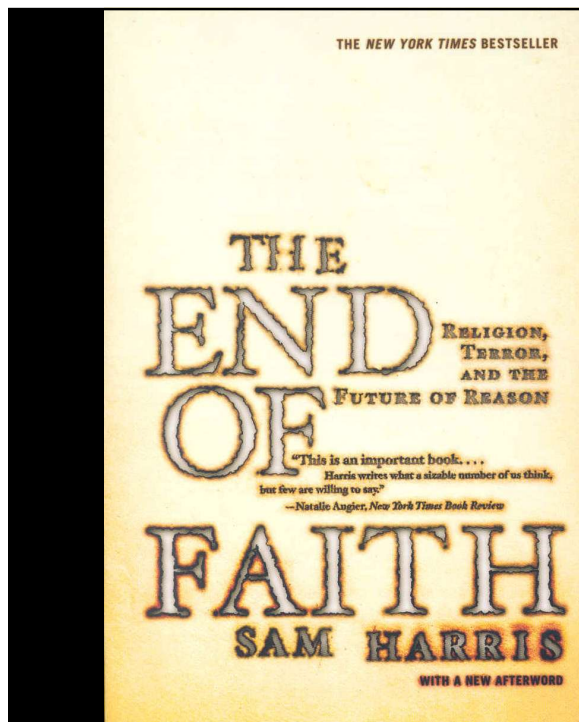
⁵ Venturi in turn had obtained the text from Jacopo Morelli, who printed the letter for the first time (I found manuscript output della Biblioteca Nazionale, Venice, 1736, n. 193). Morelli had found a copy of the letter (the original in Galileo's own handwriting has not survived) V, 1124–6. Hence, despite Marini, Galileo did not write the *Letter to the Grand Duchess* twenty years later the



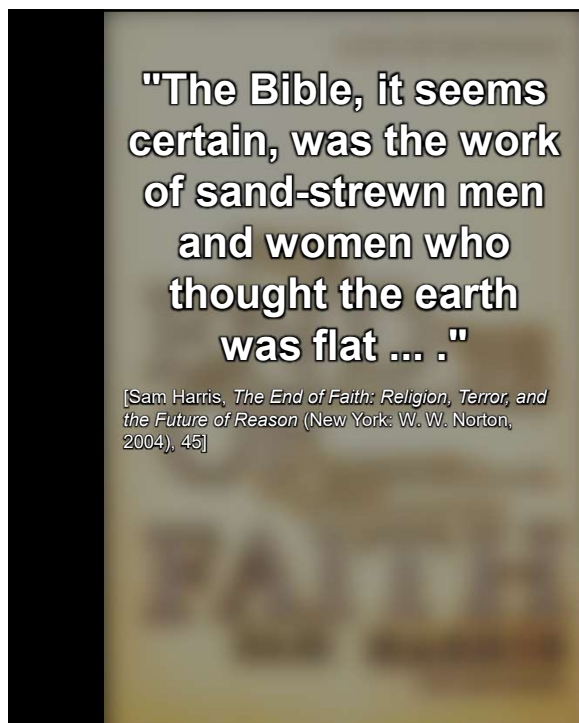




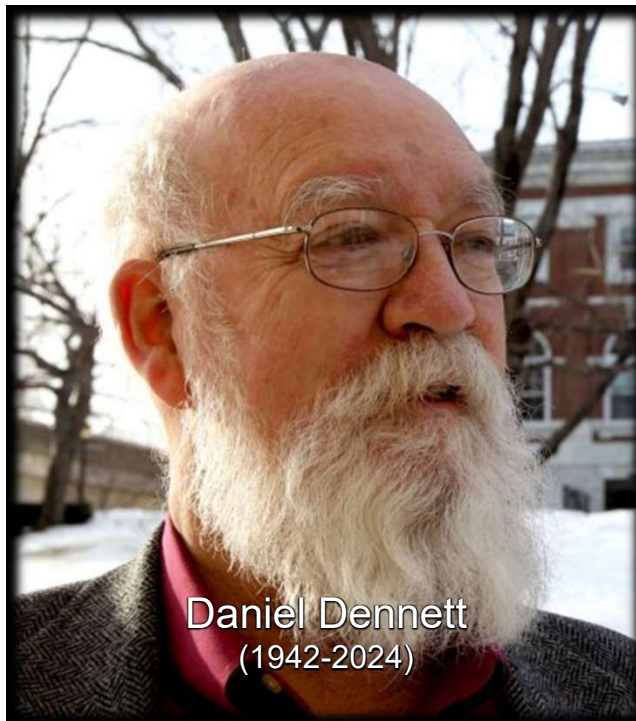
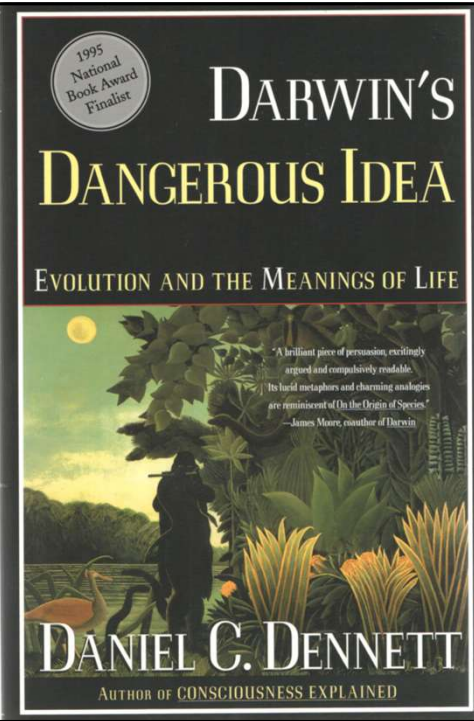
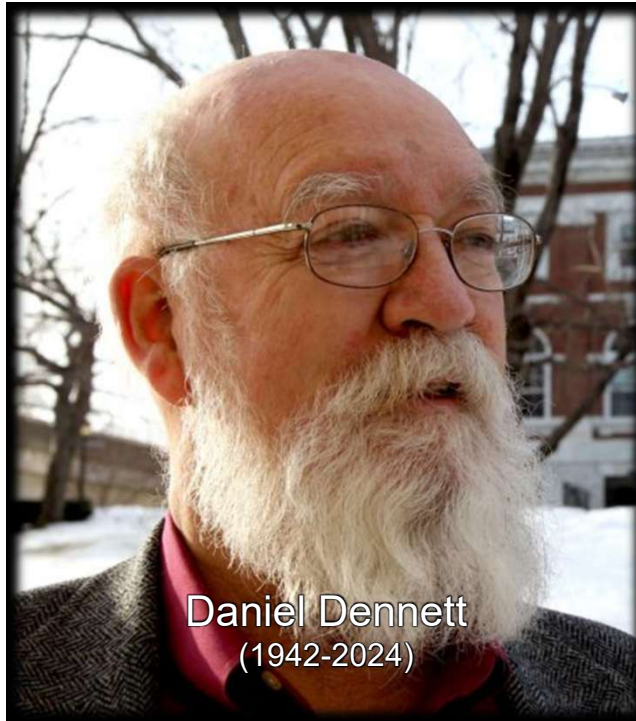




Sam Harris



Sam Harris



*"If you insist on teaching your children falsehoods—that the **Earth is flat**, that **'Man' is not a product of evolution** by natural selection—then ... we will ... describe your teachings as the spreading of falsehoods, and will attempt to demonstrate this to your children at our earliest opportunity."*

[Daniel Dennett, *Darwin's Dangerous Idea: Evolution and the Meaning of Life* (New York: Simon & Schuster, 1995), 519]

"The Church says the earth is flat, but I know that it is round, for I have seen the shadow on the moon, and I have more faith even in a shadow than in the church."

Ferdinand Magellan
(1480-1521)



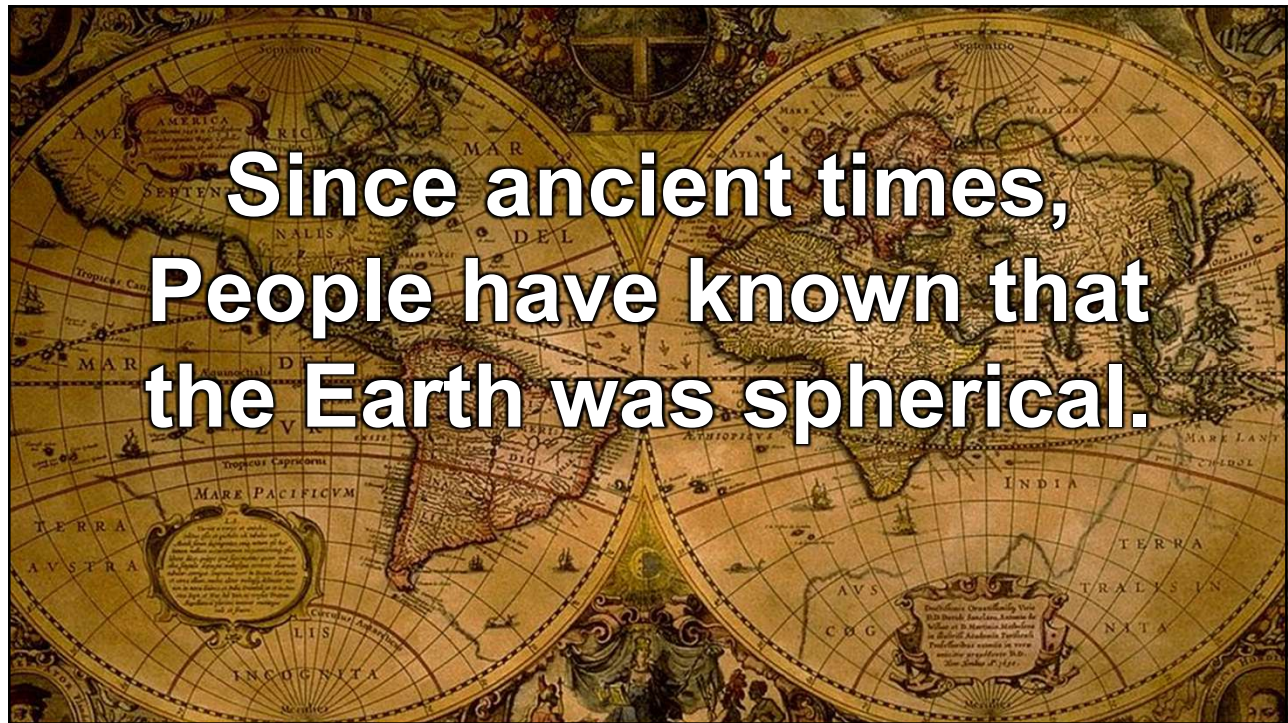
*"Here's the sad thing. Lately we've heard a lot of professional politicians . . . talking down new sources of energy. . . . We've heard this kind of thinking before. Some of these folks were around when **Columbus set sail**—they must have been founding members of **the Flat-Earth Society**. They would not have believed that the world was round."*

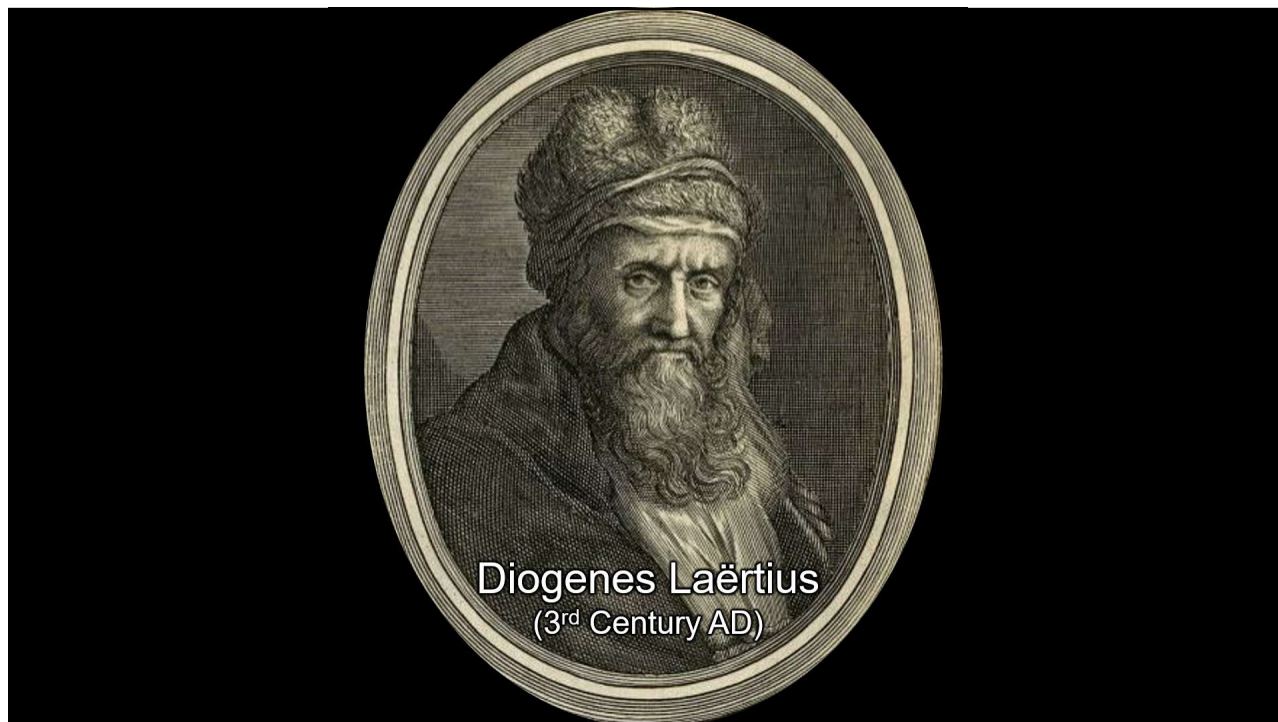
[<http://www.whitehouse.gov/the-press-office/2012/03/15/remarks-president-energy>, accessed 06/22/22]



Barack Obama

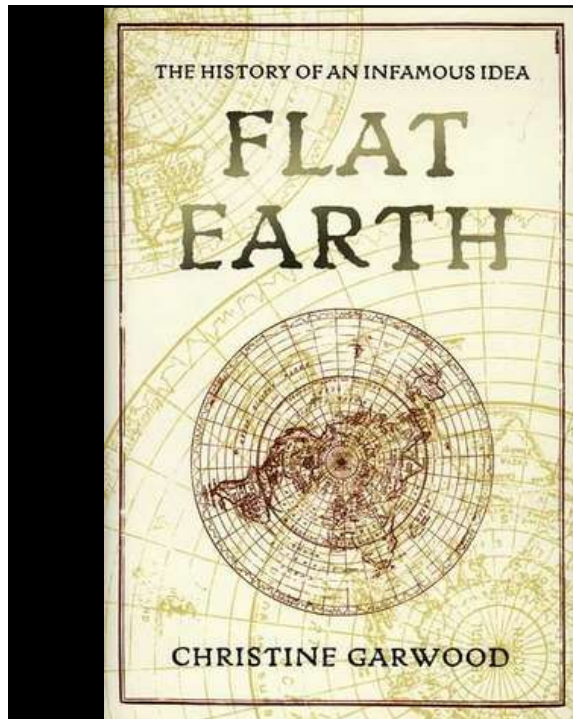






“Parmenides, a native of Elea, ...
was the first to declare that the
earth is spherical and is situated in
the center of the universe.”

[Diogenes Laërtius, *Lives of the Eminent Philosophers*, IX, 3, §21; (https://penelope.uchicago.edu/Thayer/E/Roman/Texts/Diogenes_Laertius/Lives_of_the_Eminent_Philosophers/9/Parmenides*.html)]



Christine Garwood

“While Pythagoras, or the Pythagoreans, are generally credited with being the first to argue that the earth is a globe (although doubtless someone suggested it before), it is ironic that the name of the first individual ‘discoverer’ of one of the most basic scientific facts is a mystery.”



Christine Garwood

“All that can be said is that the Pythagoreans believed that the earth was a globe floating freely in space because the sphere was the perfect shape.”

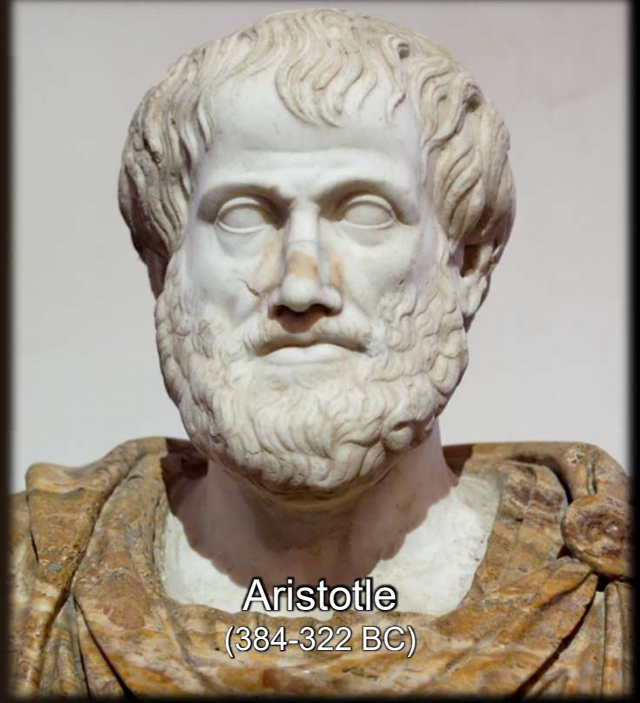
[Flat Earth: The History of an Infamous Idea (New York: Thomas Dunne Books, St. Martin's Press, 2007), 19]



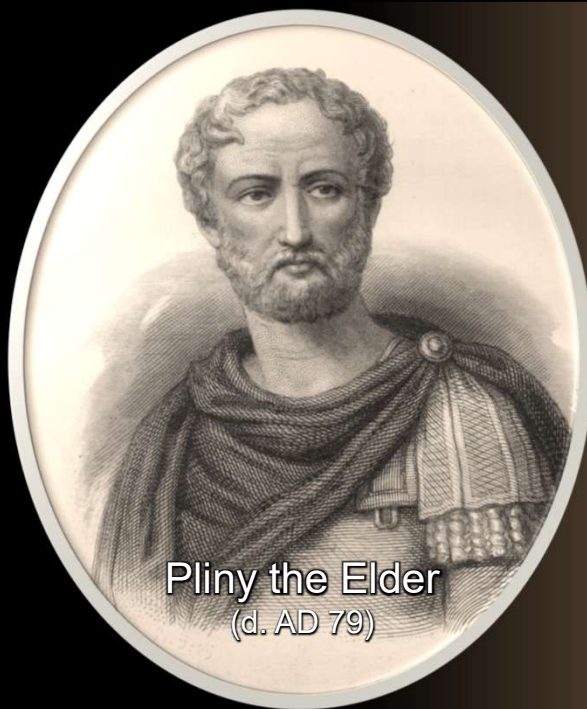
Christine Garwood

"[The earth's] shape must also be spherical."

[*On the Heavens*, II, 14, 297^a9]



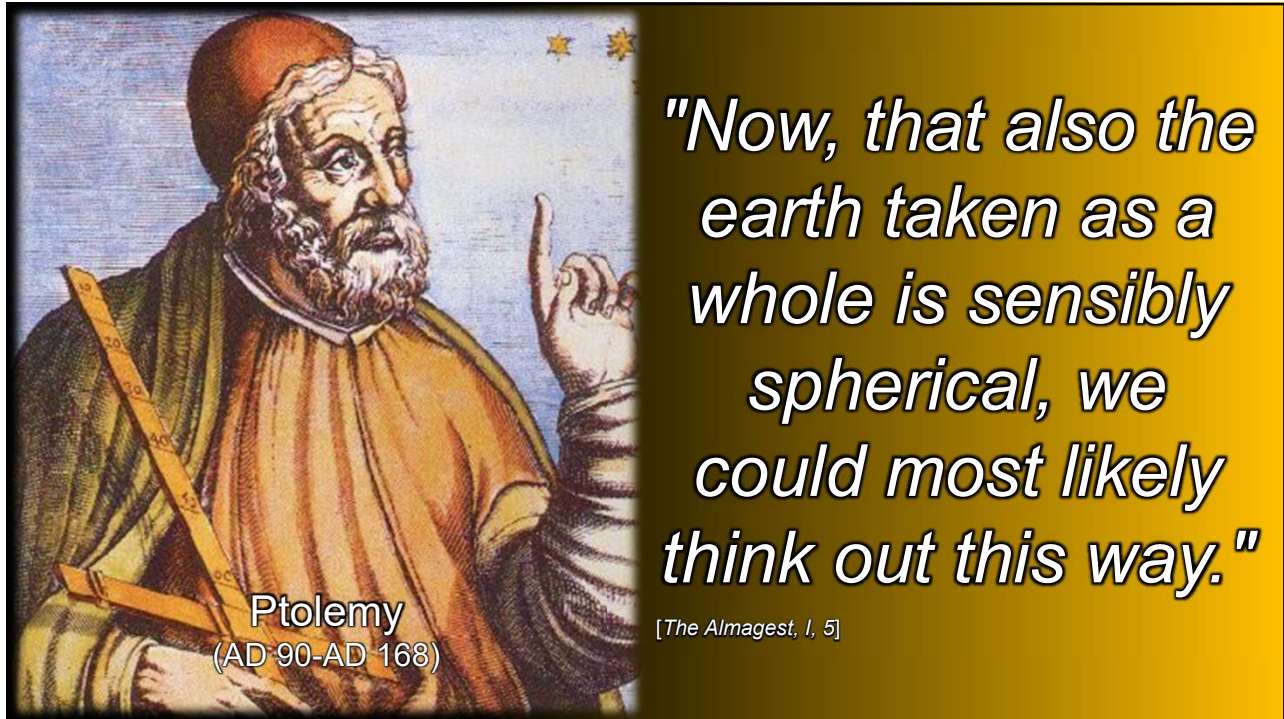
Aristotle
(384-322 BC)



Pliny the Elder
(d. AD 79)

"The first and principal thing that offers itself to be considered, is her [the earth's] figure, in which by general consent we do all agree. For surely we speak and say nothing more commonly, than the round ball of the earth; and confess that it is a globe enclosed within two poles."

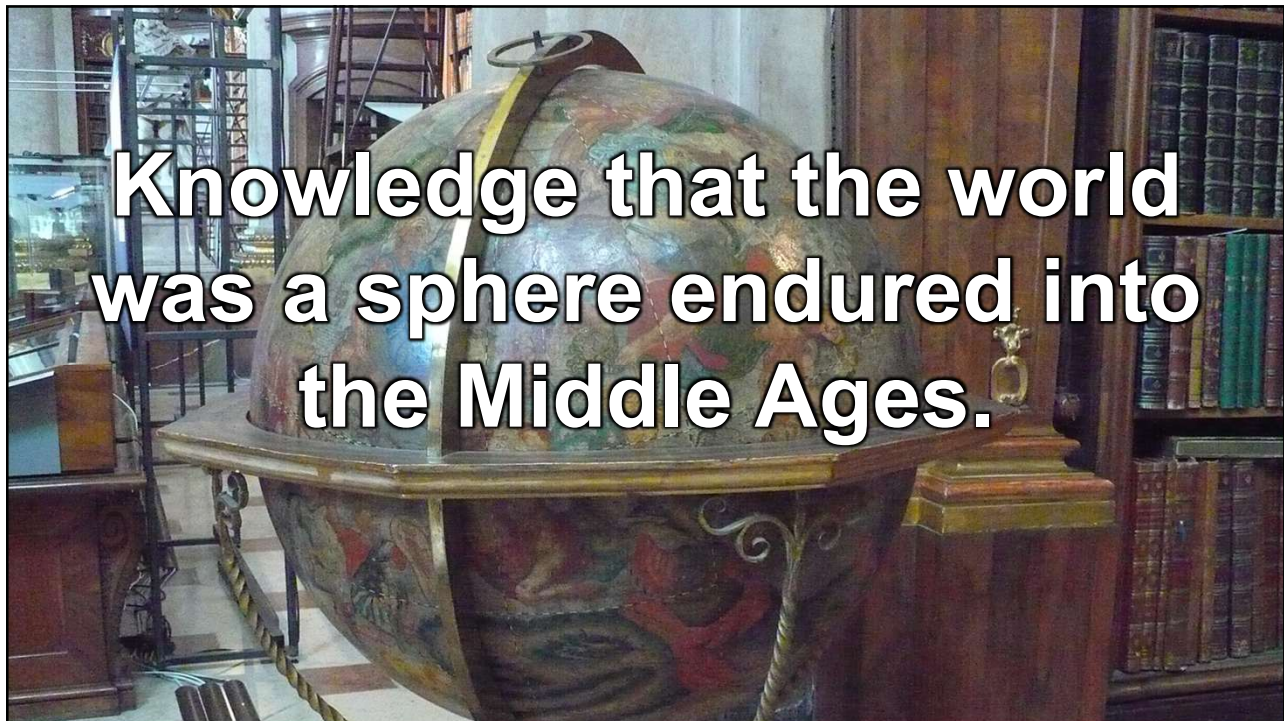
[*The History of Nature*, LXIV, trans. Philemon Holland (1601), <https://penelope.uchicago.edu/holland/pliny2.html>, with spelling modernized]

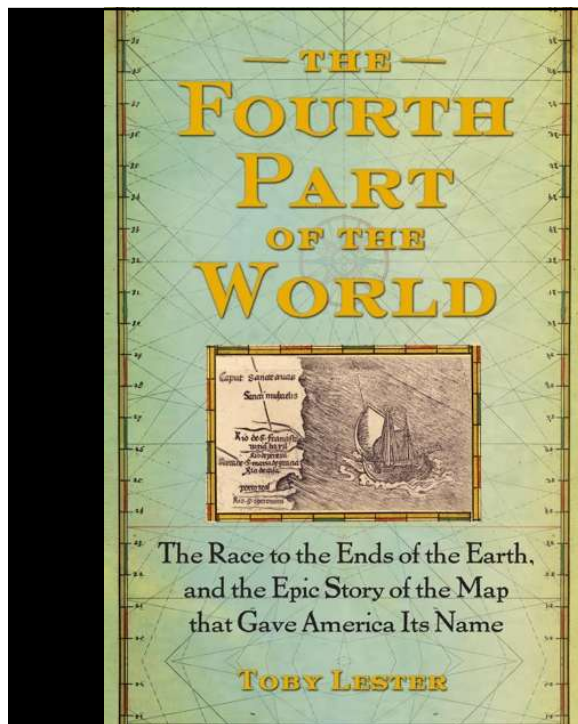


"Now, that also the earth taken as a whole is sensibly spherical, we could most likely think out this way."

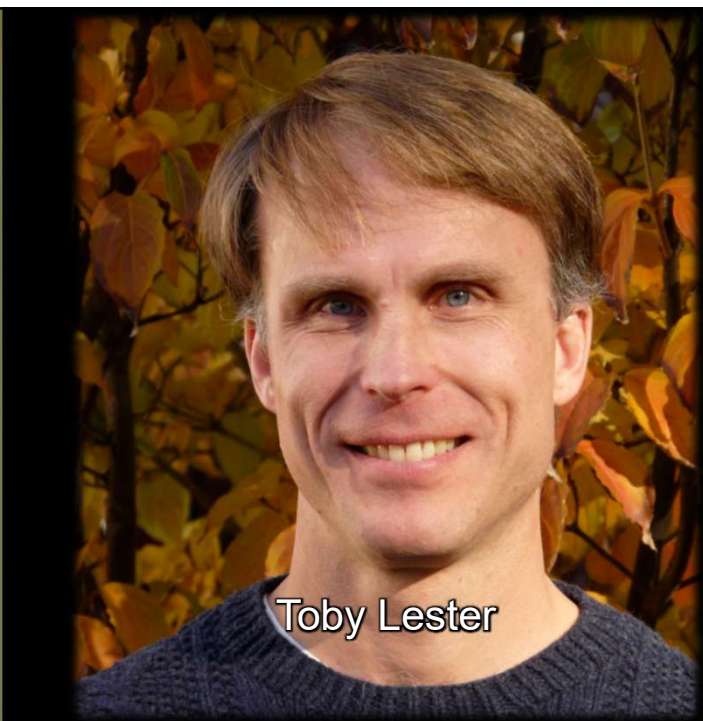
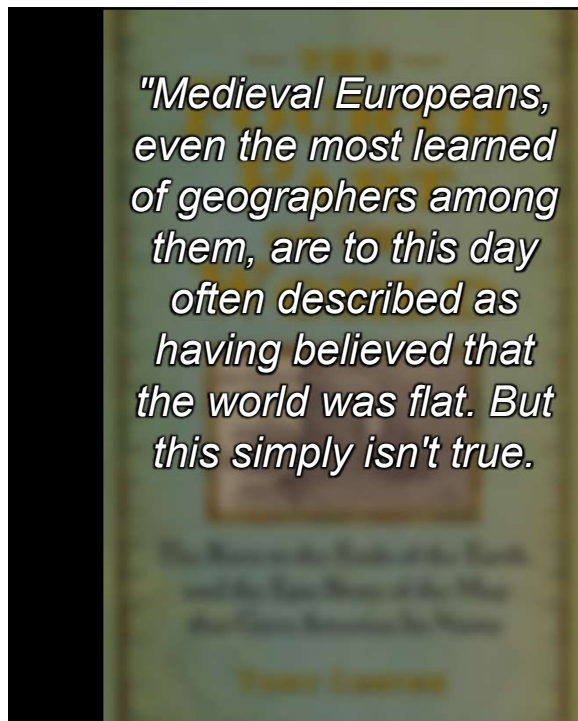
Ptolemy
(AD 90-AD 168)

[*The Almagest*, I, 5]





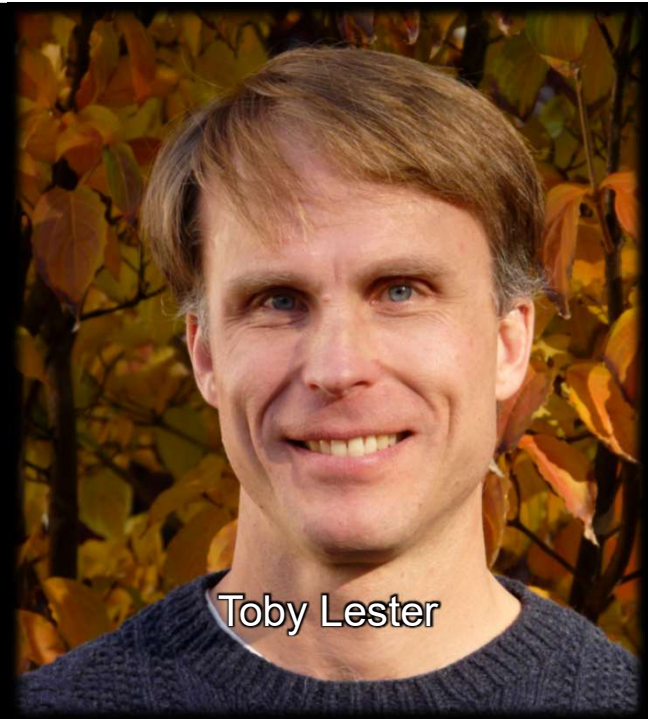
Toby Lester



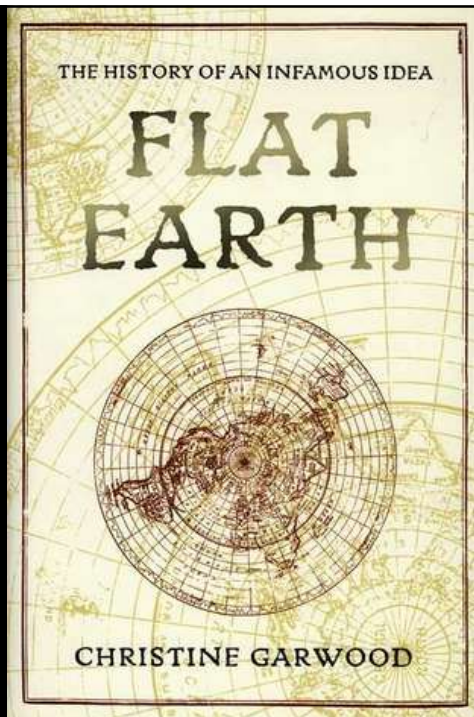
Toby Lester

"Thanks in large part to the labors of Arab astronomers and mathematicians, ancient Greek proofs of the earth as spherical had survived into the Middle Ages and were circulating in Europe."

[Toby Lester, *The Fourth Part of the Earth: The Race to the Ends of the Earth, and the Epic Story of the Map that Gave America Its Name* (New York: Free Press, 2009), 27-28]



Toby Lester



Christine Garwood

"Although very few writers of the patristic period (c. first to eighth centuries) argued in favour of a flat earth, Lactantius [240-320] and Cosmas [Indicopleustes, d. 550] were held up as



Christine Garwood

"typical medieval thinkers by Victorian rationalists writers who ... were set on sidelining religious belief as damaging to the progress of scientific truth."

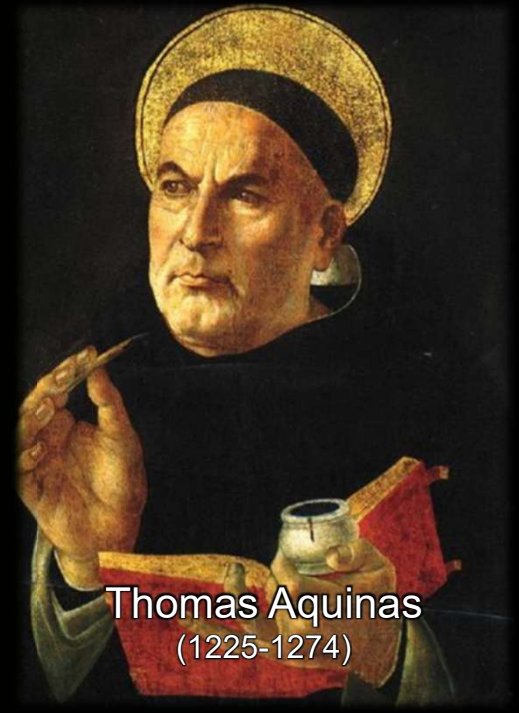
[Flat Earth: The History of an Infamous Idea (New York: Thomas Dunne Books, St. Martin's Press, 2007), 10]



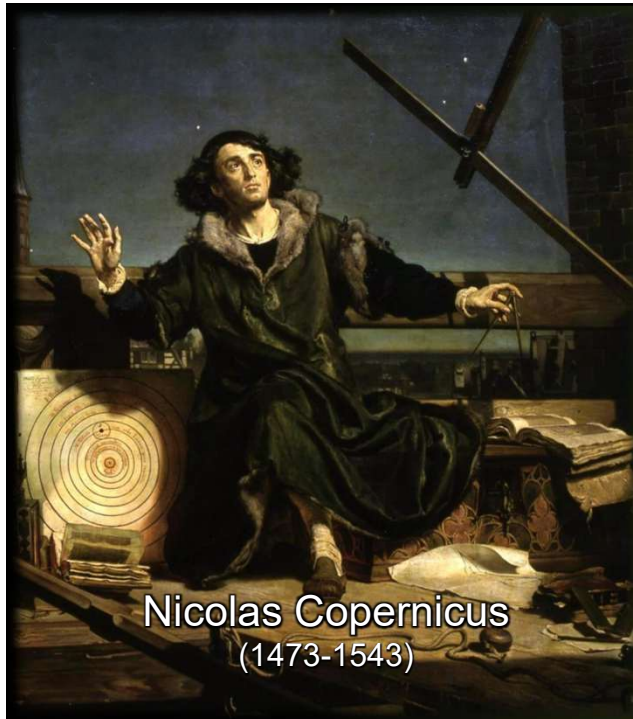
Christine Garwood

"The physicist proves the earth to be round by one means, the astronomer by another: for the latter proves this by means of mathematics, e.g., by the shapes of eclipses, or something of the sort; while the former proves it by means of physics, e.g., by the movement of heavy bodies towards the center, and so forth."

[*Summa Theologiae*, Ia IIae, 54, art. 2, ad. 2, transl. Fathers of the English Dominican Province (Westminster: Christian Classics, 1948)]



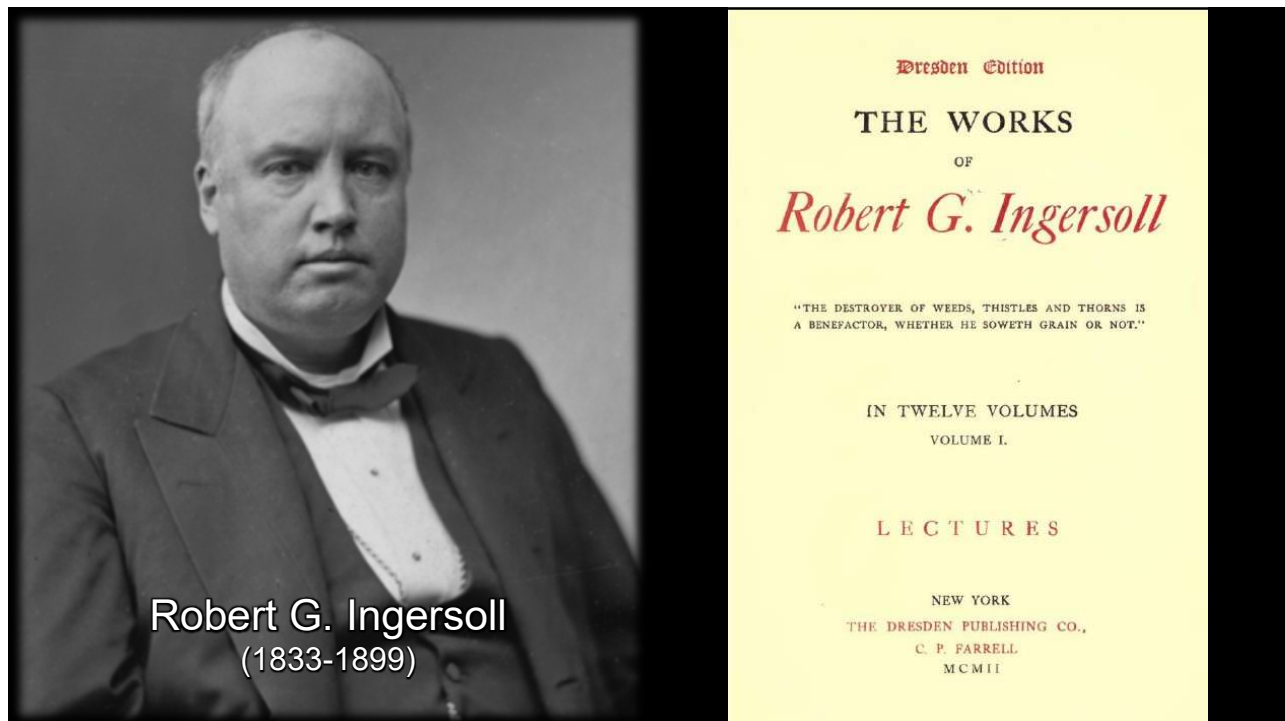
Thomas Aquinas
(1225-1274)

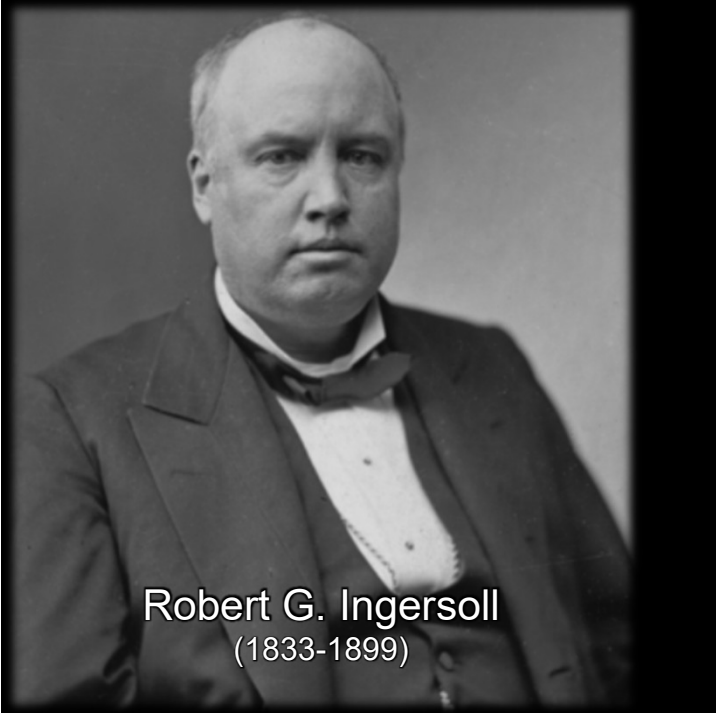


Nicolas Copernicus
(1473-1543)

"The Earth is globe-shaped too, since on every side it rests upon its center."

[*On the Revolutions of the Heavenly Spheres*, I, transl. Charles Glenn Wallis in *Great Books of the Western World*, ed. in chief Robert Maynard Hutchins (Chicago: Encyclopedia Britannica, 1952), vol. 16, p. 505]






Robert G. Ingersoll
(1833-1899)

"It is a blessed thing that in every age some one has had individuality enough and courage enough to stand by his own convictions, — some one who had the grandeur to say his say. I believe it was Magellan who said, 'The church says the earth is flat; but I have seen its shadow on the moon, and I have more confidence even in a shadow than in the church.' On the prow of his ship were disobedience, defiance, scorn, and success."

[Robert G. Ingersoll, "Individuality," <https://infidels.org/library/historical/robert-ingersoll-individuality/>, accessed 06/22/22]

*"Here's the sad thing. Lately we've heard a lot of professional politicians . . . talking down new sources of energy. . . . We've heard this kind of thinking before. Some of these folks were around when **Columbus** set sail—they must have been founding members of the **Flat-Earth Society**. They would not have believed that the world was round."*



Barack Obama

[<http://www.whitehouse.gov/the-press-office/2012/03/15/remarks-president-energy>, accessed 06/22/22]

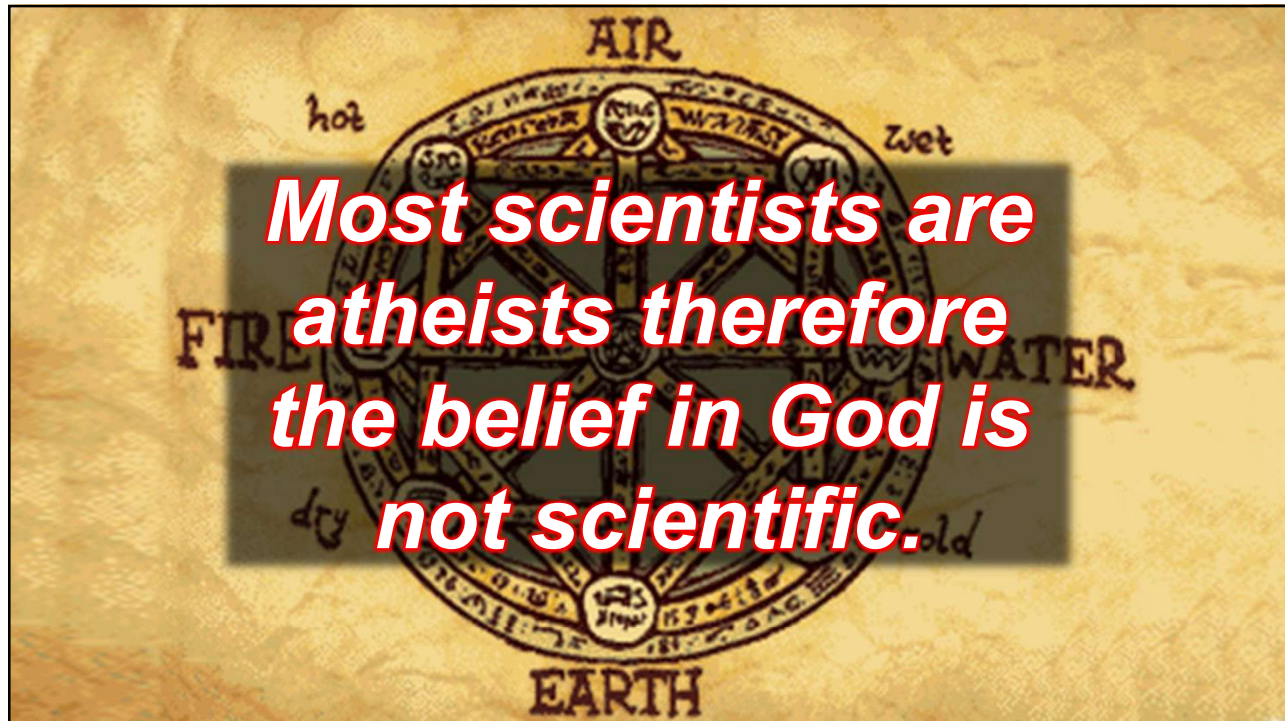
"This equation of rotundity with modernity also explains why nineteenth-century American historians claimed that it was Columbus and the early mercantilists who proved the earth was round and thereby ushered in modernity—and America. In fact, it was a biography of Columbus by the American author Washington Irving, the creator of 'Rip Van Winkle,' that introduced this idea to the world."

[Lesley B. Cormack, "Myth 3: That Medieval Christians Taught that the Earth Was Flat" in Ronald L. Numbers, ed., *Galileo Goes to Jail: And Other Myths about Science and Religion* (Cambridge: Harvard University Press, 2009), 29-30]



Lesley B. Cormack





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POLLING AND ANALYSIS

NOVEMBER 5, 2009

RELIGION AND SCIENCE IN THE UNITED STATES

Scientists and Belief

When President Barack Obama announced on July 8, 2009, that he would nominate renowned geneticist Francis Collins to be the new director of the National Institutes of Health, a number of scientists and pundits publicly questioned whether the nominee's devout religious faith should disqualify him from the position. In particular, some worried that an outspoken evangelical Christian who believes in miracles might not be the right person to fill what many consider to be the nation's most visible job in science. Collins was unanimously confirmed by the U.S. Senate on Aug. 7, 2009, but the controversy over his nomination reflects a broader debate within the scientific community between those who believe religion and science each examine legitimate but different realms of knowledge and those who see science as the only true way of understanding the universe.

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TABLE OF CONTENTS

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- Public Opinion on Religion and Science in the United States
- Scientists and Belief**
- Religion and Science: A Timeline

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| General public | 83 | 12 | 4 | 1 |
| Scientists | 33 | 18 | 41 | 7 |

believe religion and science each examine legitimate but different realms of knowledge and those who see science as the only true way of understanding the universe.

Public Praises Science;

<http://www.pewforum.org/2009/11/05/scientists-and-belief/>, accessed 11/06/19

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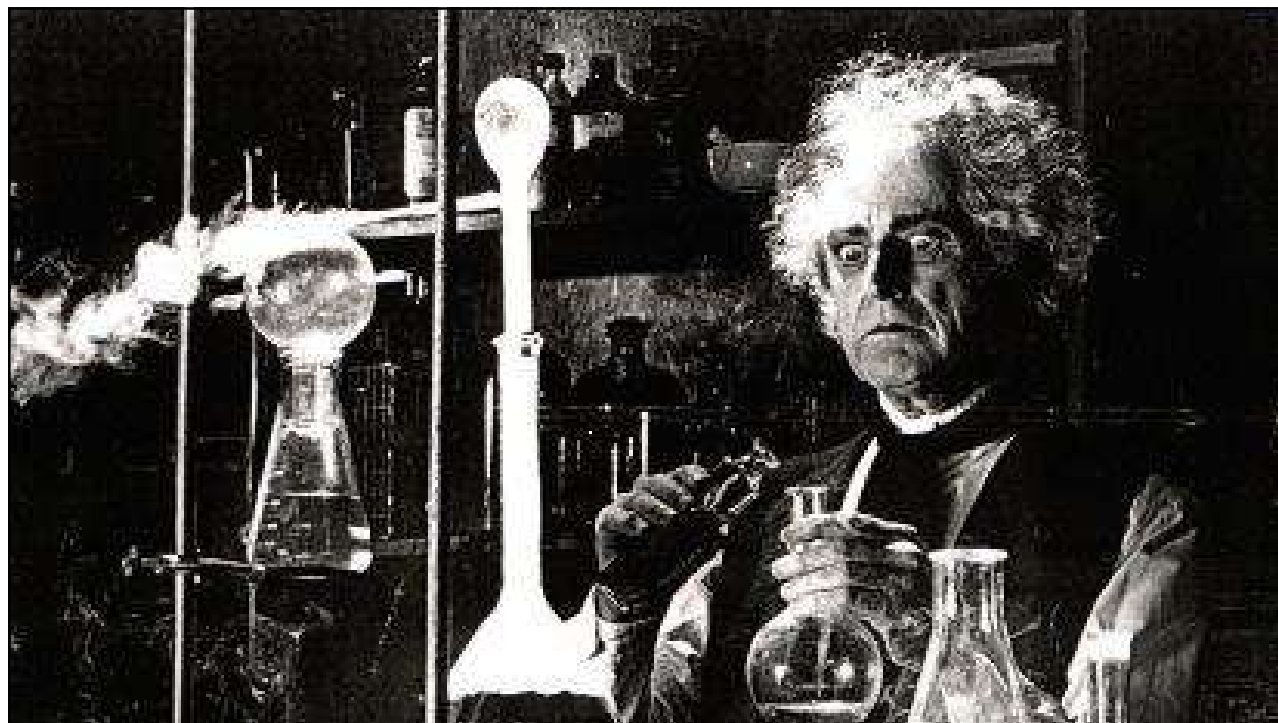
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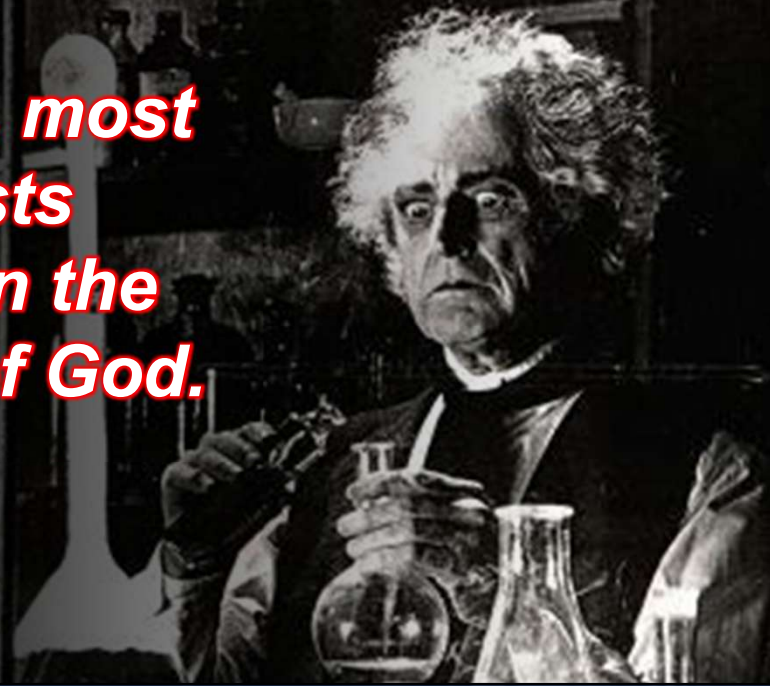
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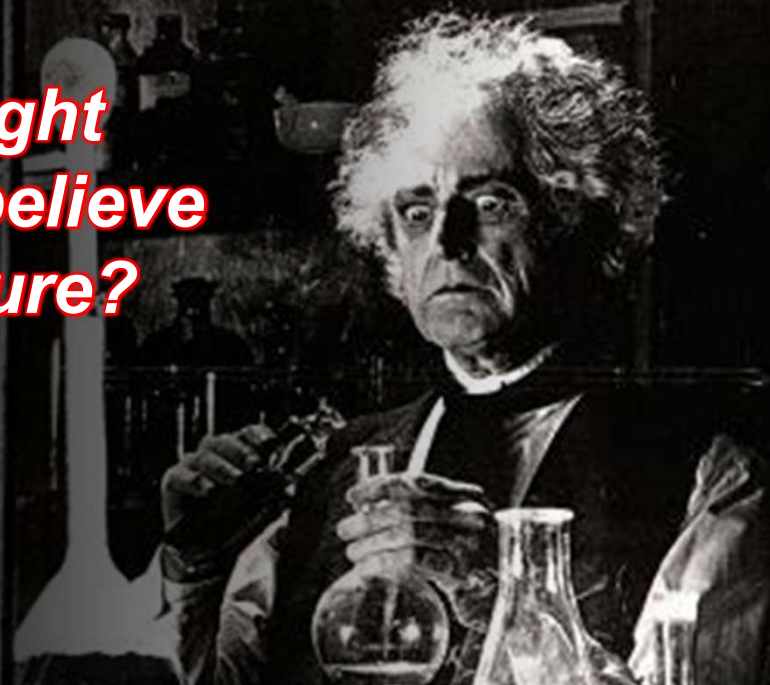
<http://www.pewforum.org/2009/11/05/scientists-and-belief/>

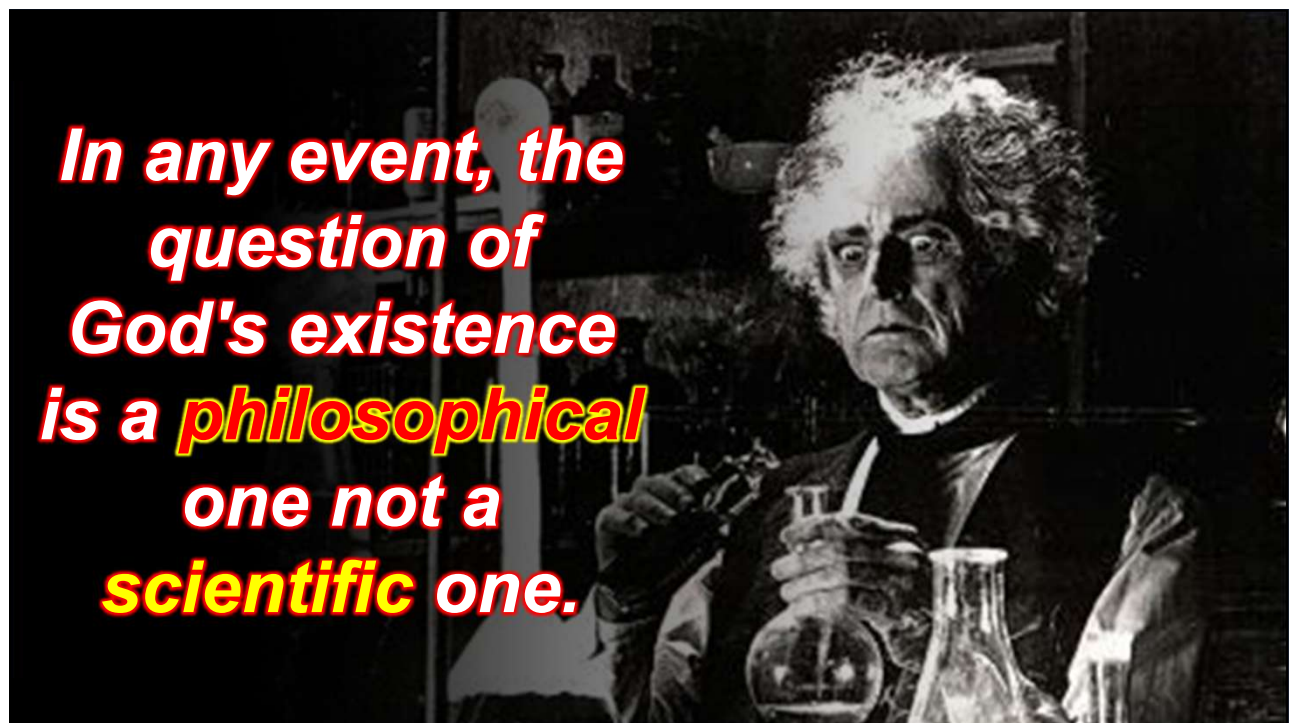
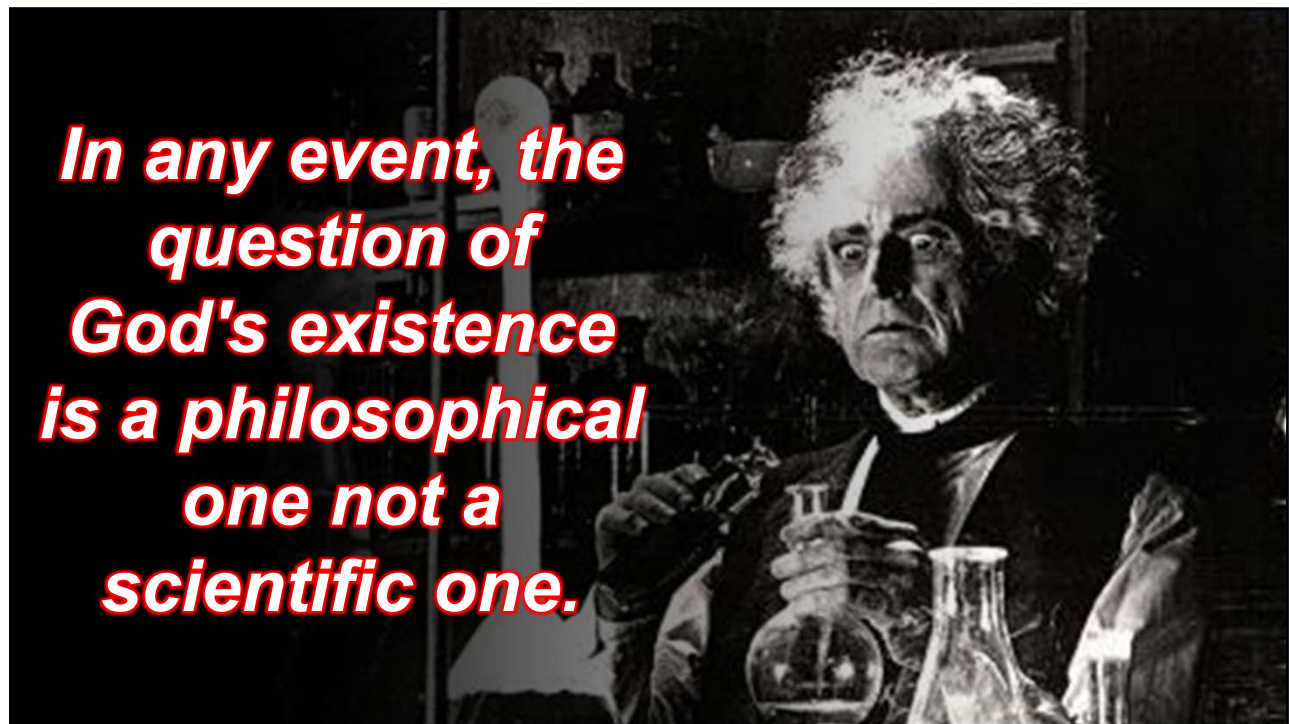


***In the past, most
scientists
believed in the
existence of God.***



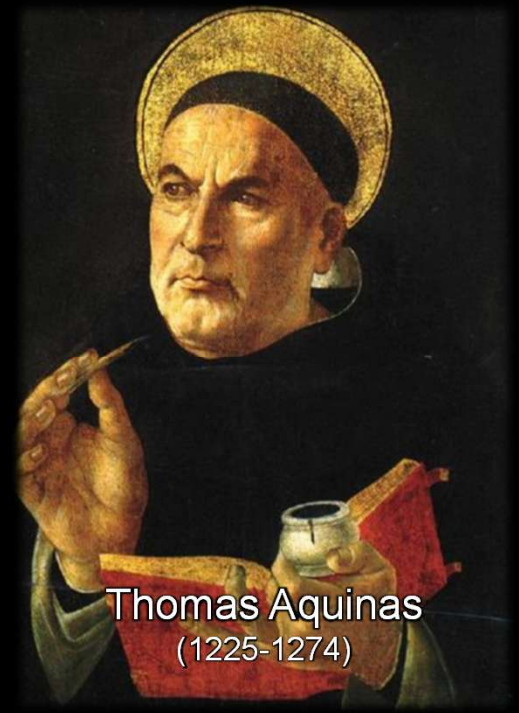
***What might
scientists believe
in the future?***





"Sensible things [are that] from which human reason takes the origin of its knowledge."

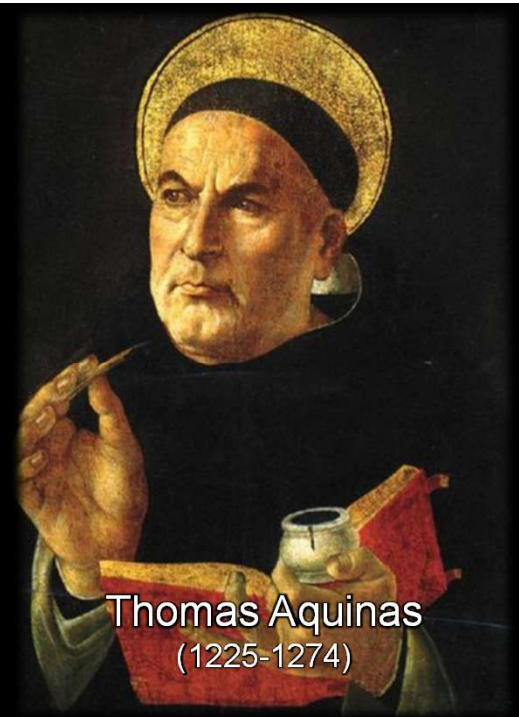
[Thomas Aquinas, *Summa Contra Gentiles*, I, 9, §2. Trans. Anton C. Pegis. (Notre Dame: University of Notre Dame Press, 1975): I, 77]



Thomas Aquinas
(1225-1274)

"Our knowledge, taking its start from things, proceeds in this order. First, it **begins in sense; second, it is **completed in the intellect**."**

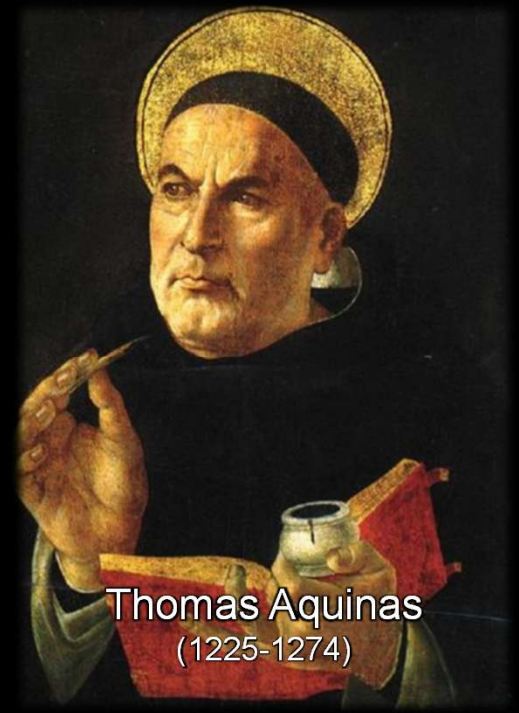
[Thomas Aquinas, *Truth*, I, 11, trans. Mulligan, 48, in *Truth* (3 vols), vol. 1 trans. Robert W. Mulligan (Chicago: Henry Regnery, 1952); vol. 2 trans. James V. McGlynn (Chicago: Henry Regnery, 1953); vol. 3. trans. Robert W. Schmidt (Chicago: Henry Regnery, 1954). The three volumes were reprinted as *Truth* (Indianapolis: Hackett, 1994)]



Thomas Aquinas
(1225-1274)

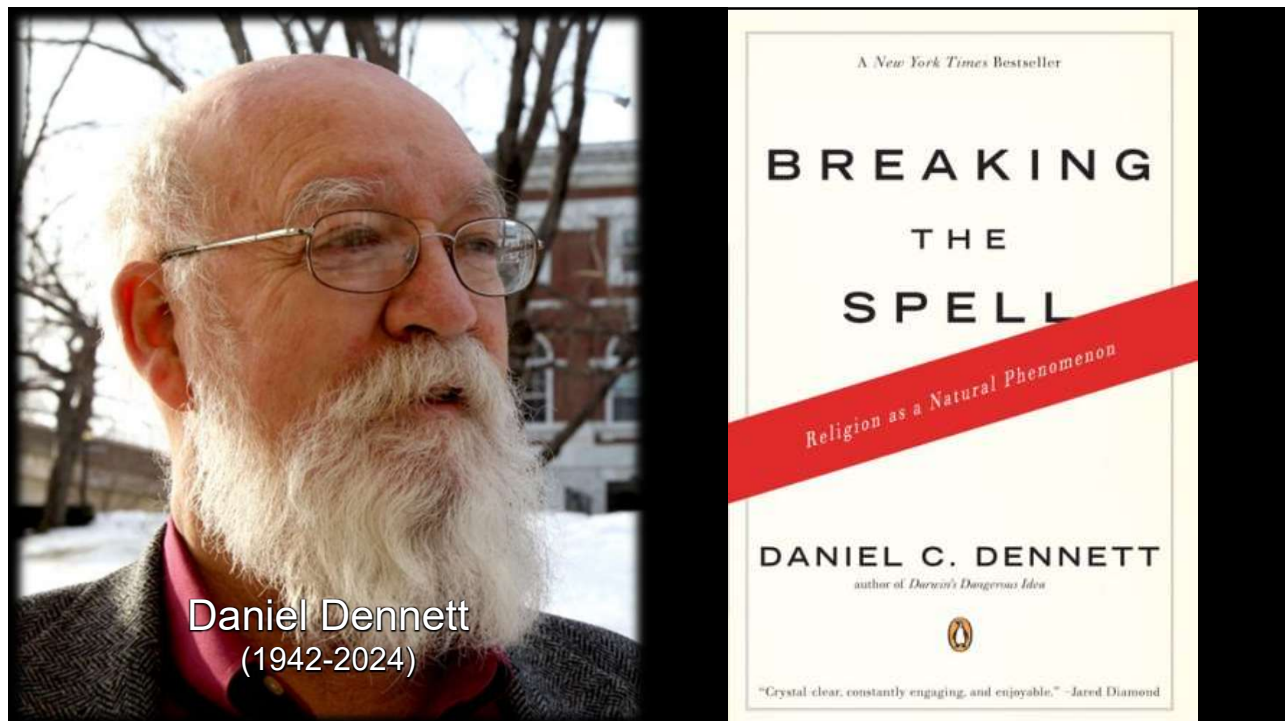
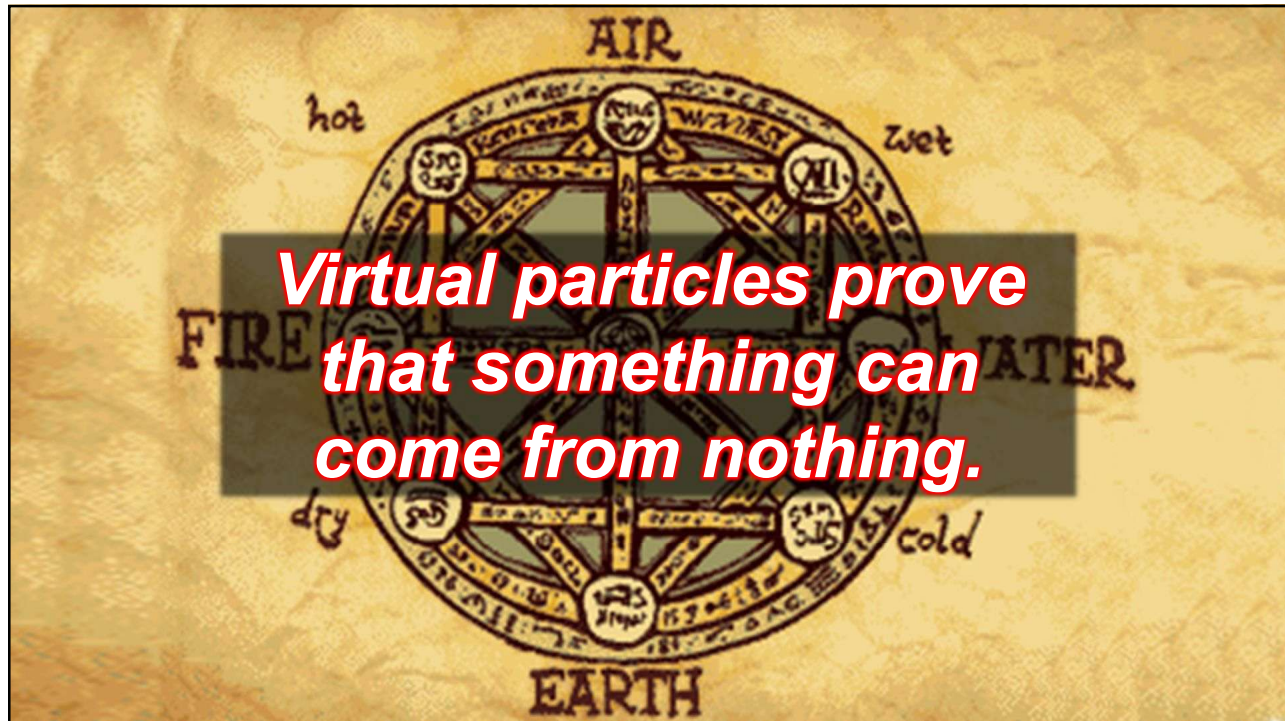
"Our knowledge of principles themselves is derived from sensible things."

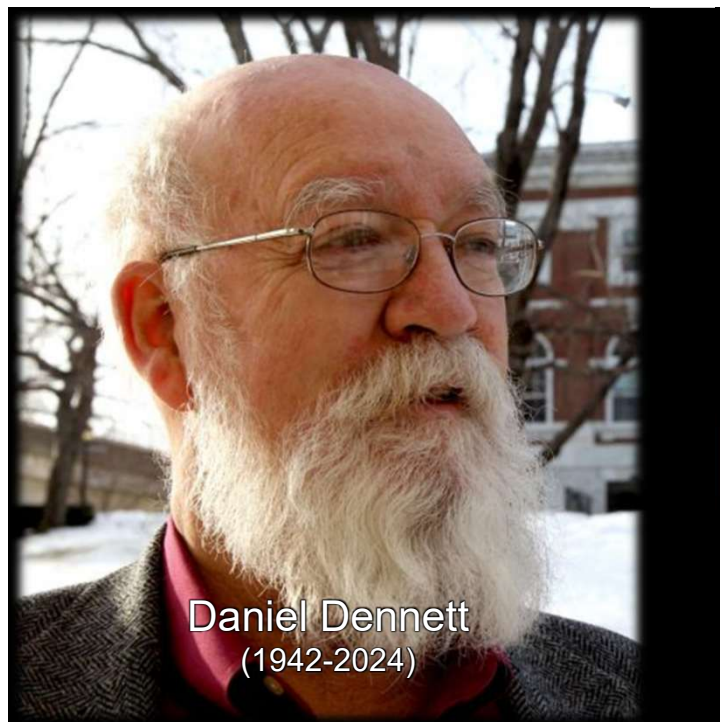
[Thomas Aquinas, *Summa Contra Gentiles*, II, 83, §32. Trans. James F. Anderson (Notre Dame: University of Notre Dame Press, 1975): II, 282]



Thomas Aquinas
(1225-1274)








Daniel Dennett
(1942-2024)


"Some deny the premise [that everything must have a cause] since quantum physics teaches us (doesn't it?) that not everything that happens needs to have a cause."

[Daniel C. Dennett, *Breaking the Spell* (New York: Penguin Group, 2006), 242]

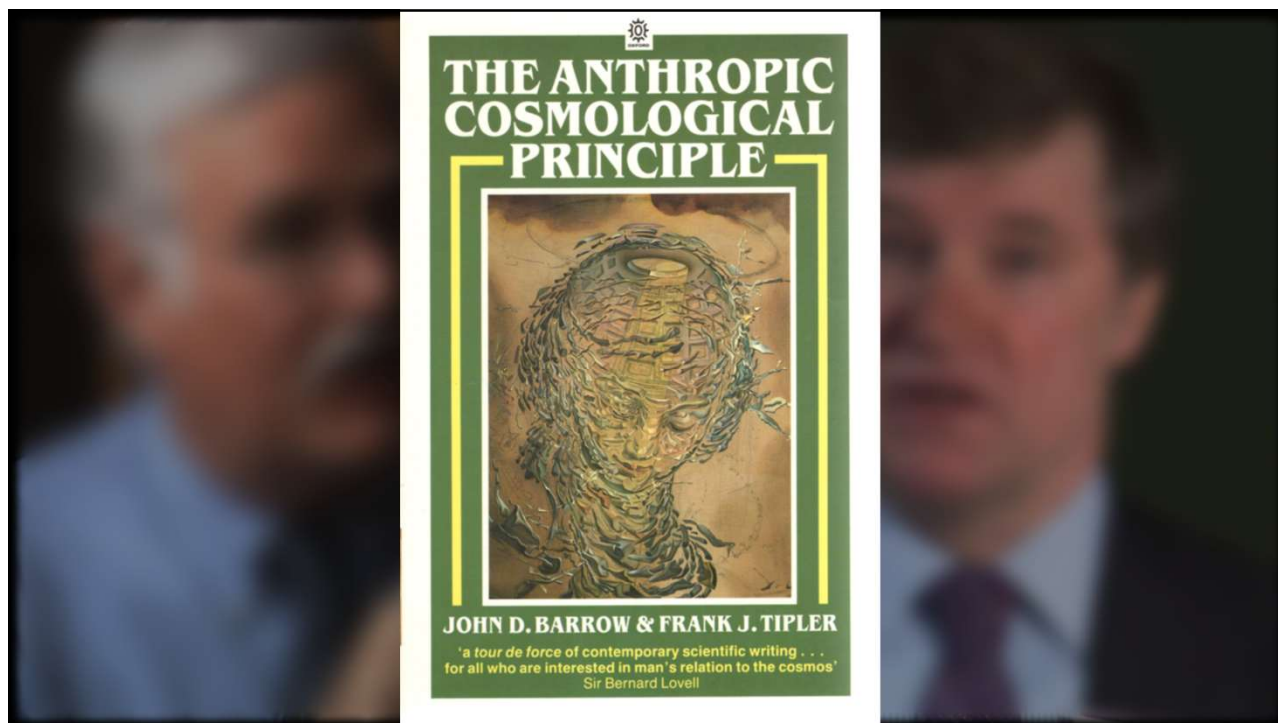




The claim is that physicists have observed that certain particles arise out of a quantum vacuum and thus come out of nothing without a cause.



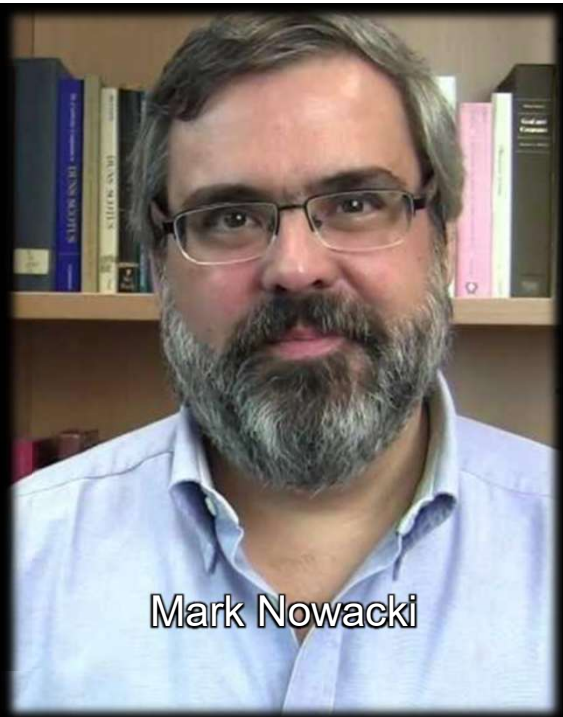
But this is not what is going on with virtual particles. They are not counter-examples to the notion of causality.



"The modern picture of the quantum vacuum differs radically from the classical and everyday meaning of a vacuum—nothing. ... The quantum vacuum ... states ... are defined simply as local, or global, energy minima. ... The quantum mechanical vacuum is not truly 'nothing'; rather, the vacuum state has a rich structure which resides in a previously existing substratum."

[John D. Barrow and Frank J. Tipler, *The Anthropic Cosmological Principle* (Oxford: Oxford University Press, 1986), 440, 441]

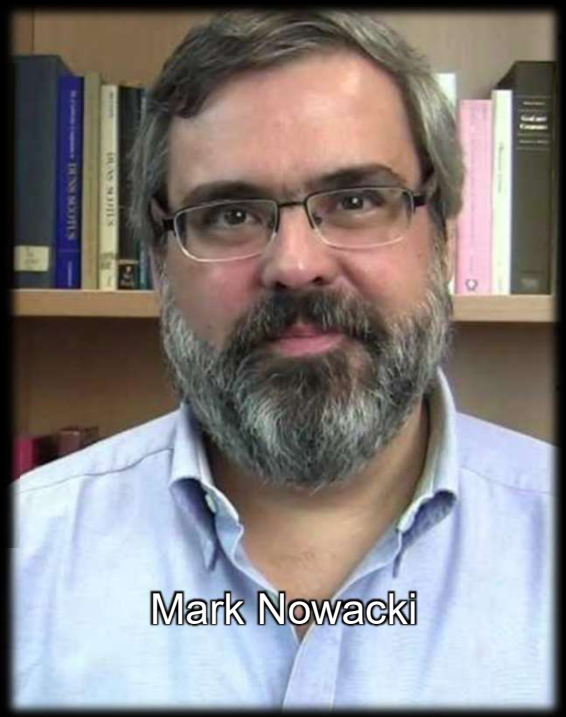
"... the quantum vacuum is very different from the void of Newton: the quantum vacuum is a soupy morass of energy and particles in constant flux; and virtual particles derive their existence from the surrounding quantum gumbo."



Mark Nowacki

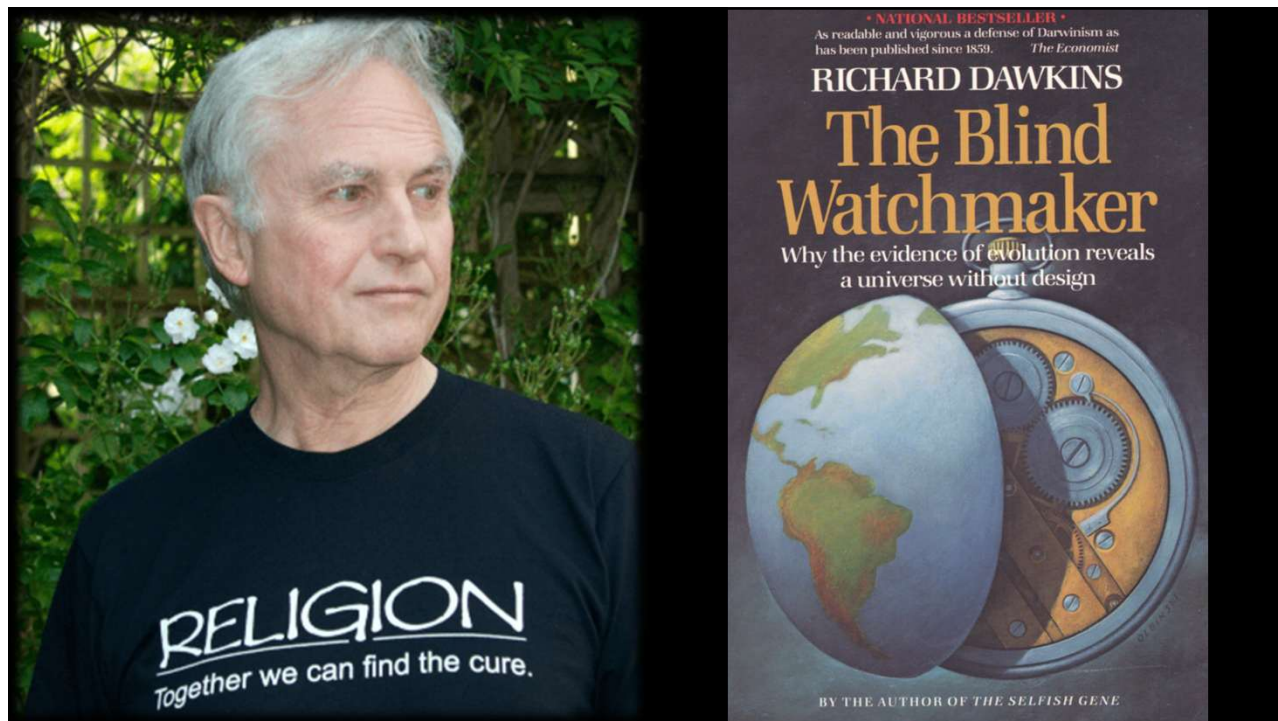
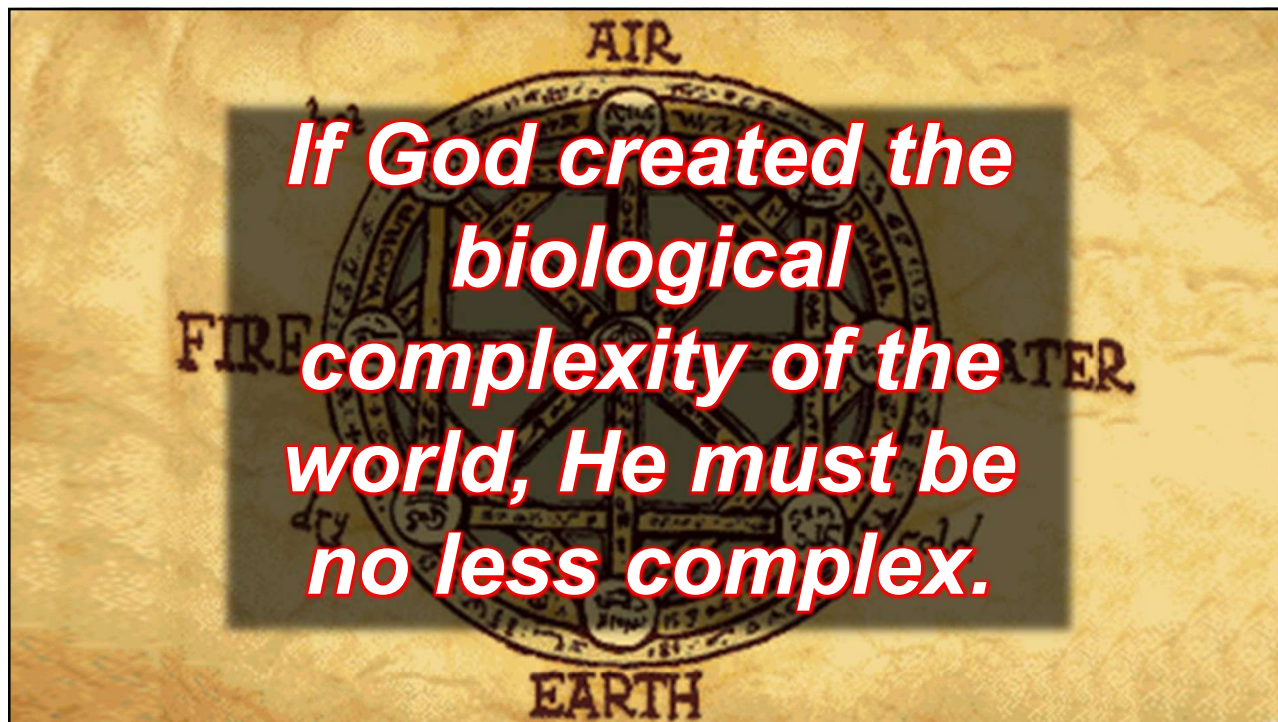
"So, whatever the full causal account of virtual particles might be, it is clear that their arising is not a case of something coming to be out of nothing."

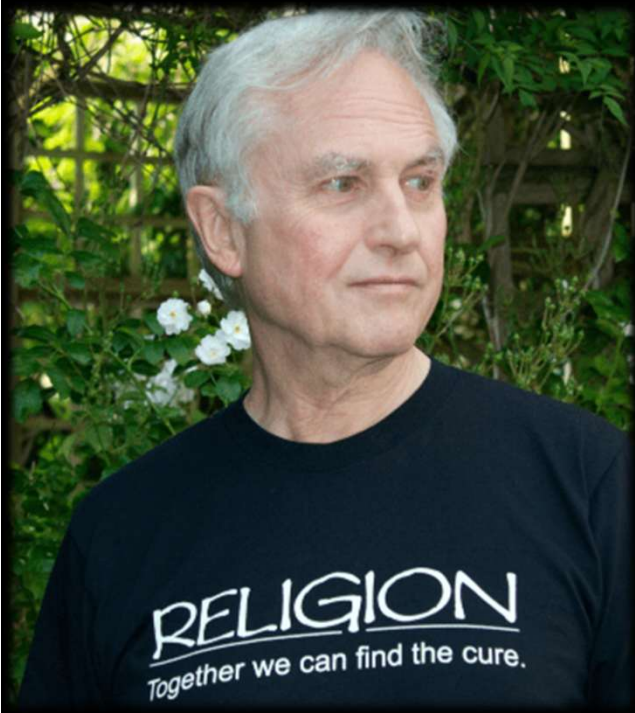
[Mark R. Nowacki, "Whatever Comes to Be Has a Cause of Its Coming to Be: A Thomistic Defense of the Principle of Sufficient Reason" *The Thomist* 62 (1998): 291-302]



Mark Nowacki

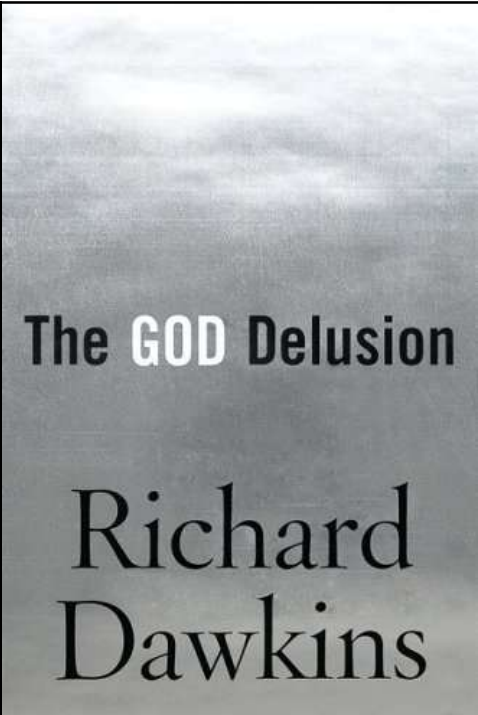






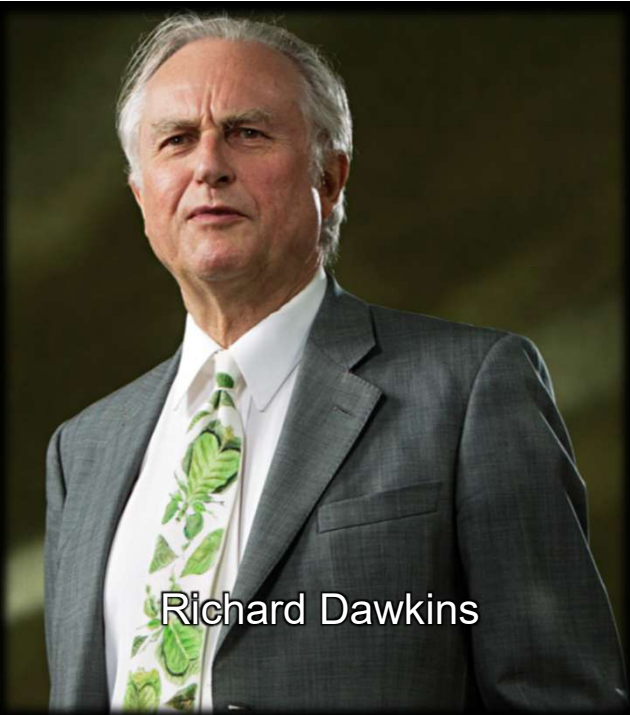
"But of course any God capable of intelligently designing something as complex as the DNA/protein replicating machine must have been at least as complex and organized as that machine itself."

[Richard Dawkins, *The Blind Watchmaker: Why the Evidence of Evolution Reveals a Universe Without Design* (New York: W. W. Norton & Company, 1987), 141]



The **GOD** Delusion

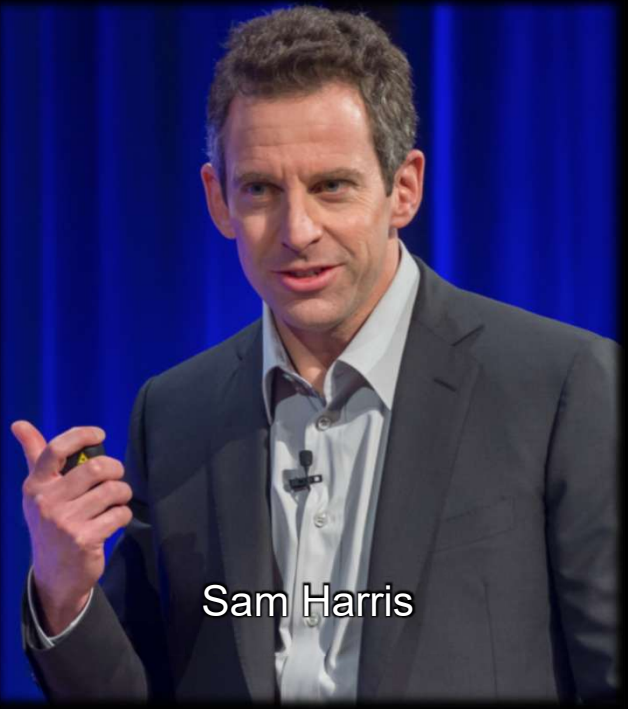
Richard Dawkins



Richard Dawkins

"Any being capable of creating a complex world promises to be very complex himself. As biologist Richard Dawkins has observed repeatedly, the only natural process we know of that could produce a being capable of designing things is evolution."

[Sam Harris, *Letter to a Christian Nation* (New York: Vintage Books, 2008), 73]

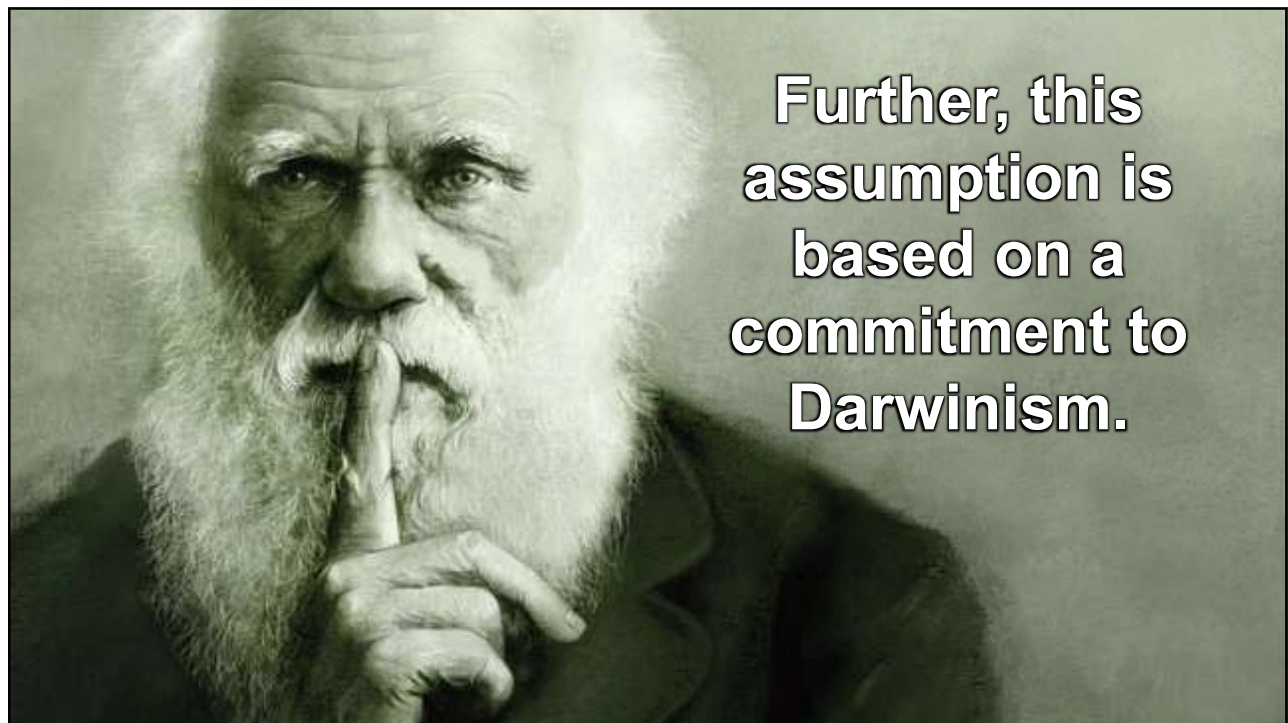
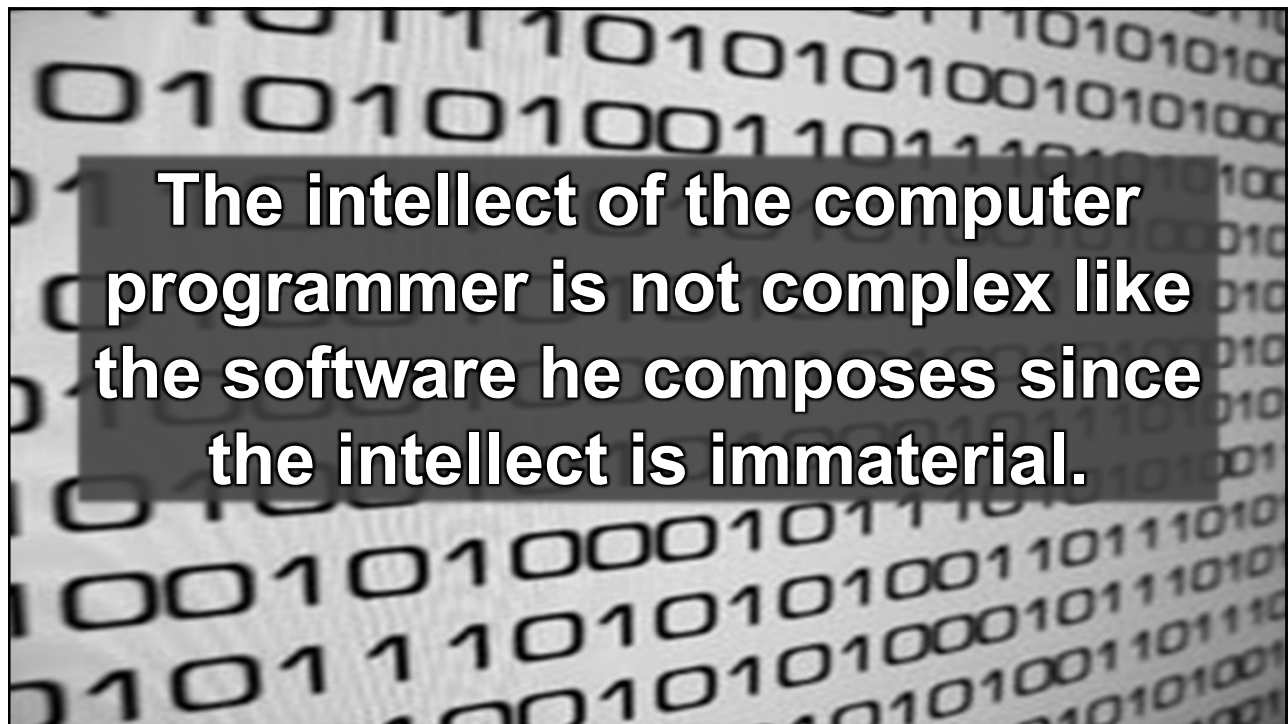


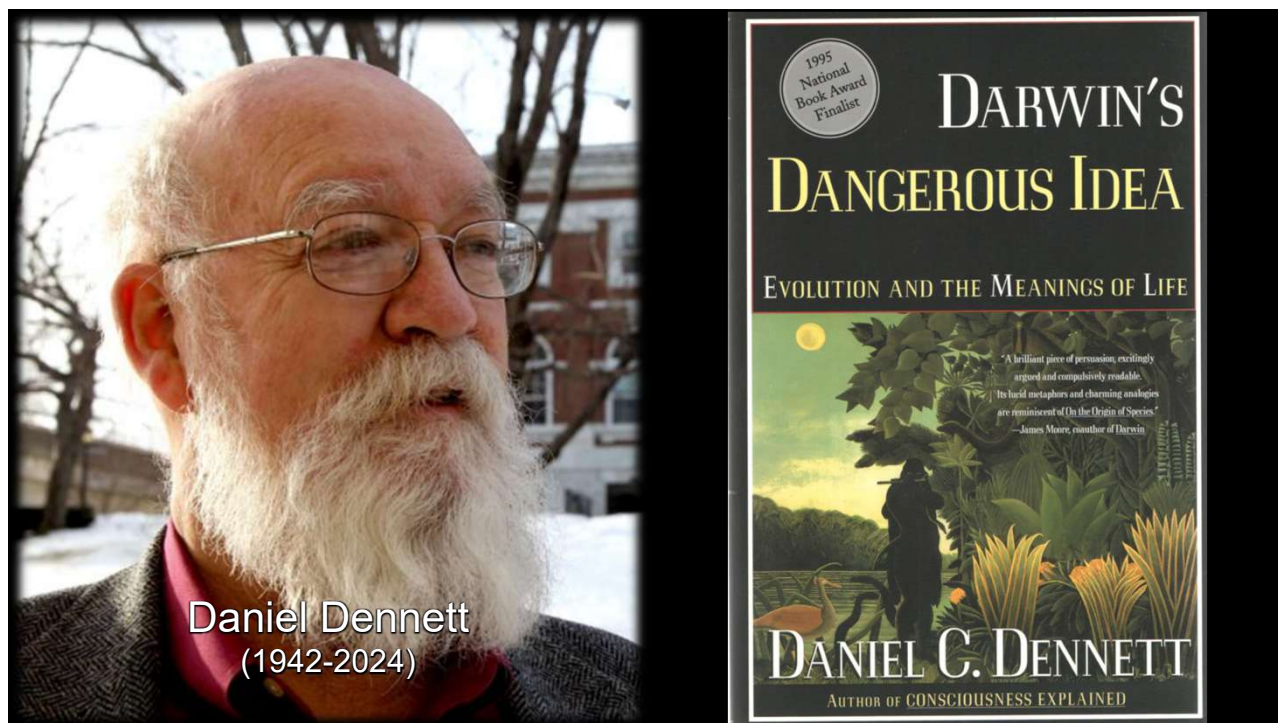
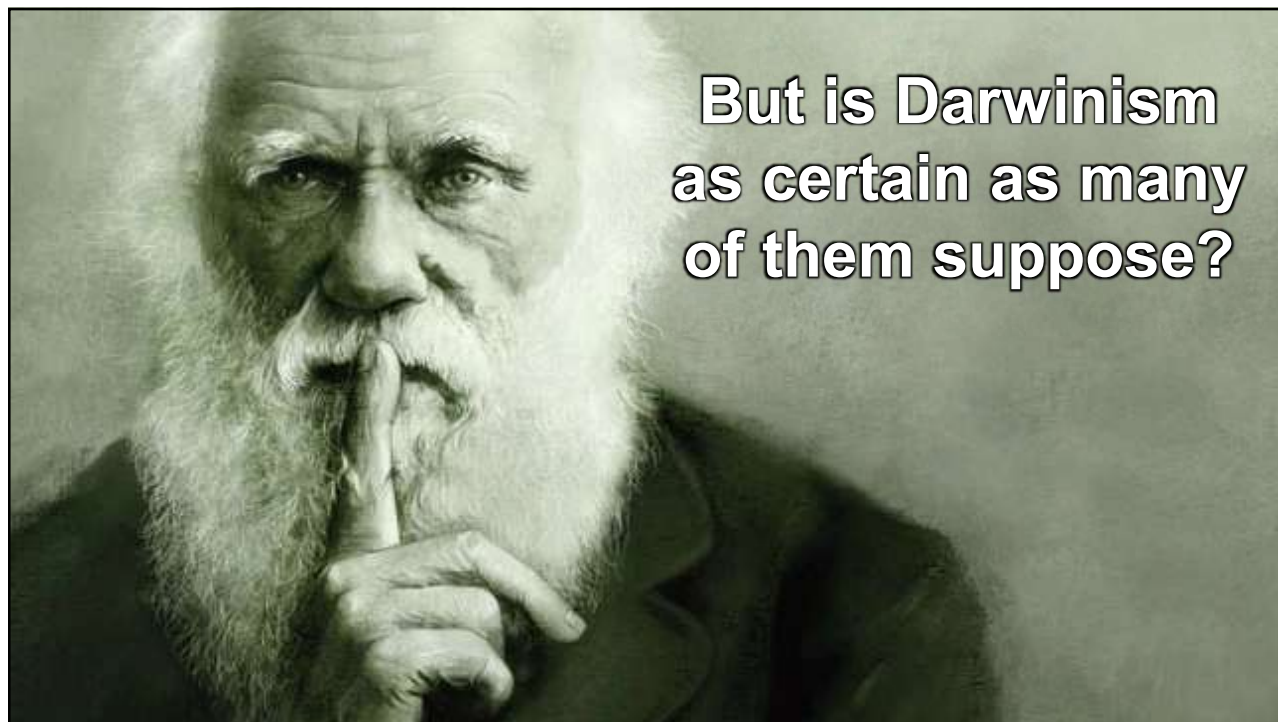
This reasoning is based on an assumption of physicalism (the view that maintains that everything that is real is physical).

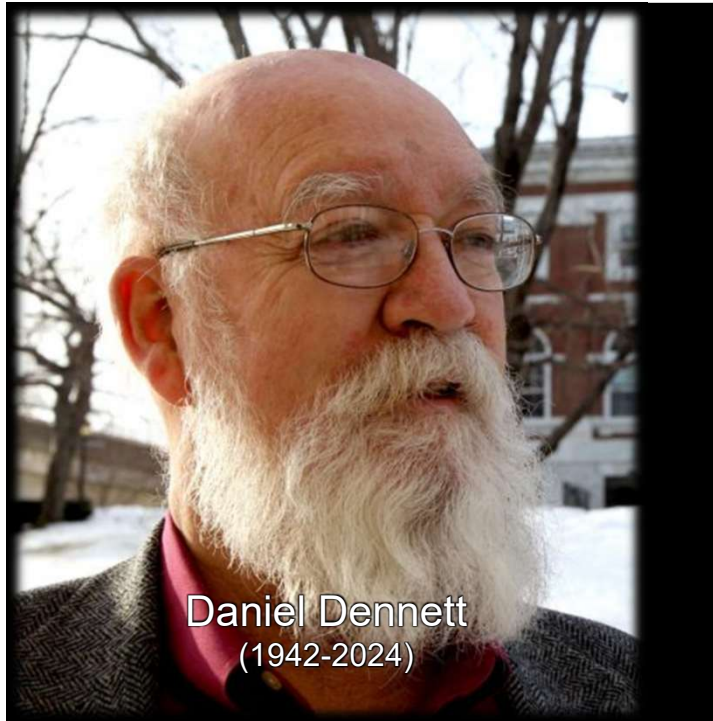


But there is no reason to think that intellects which are capable of creating complex objects and processes must themselves be complex (i.e., composed of parts).





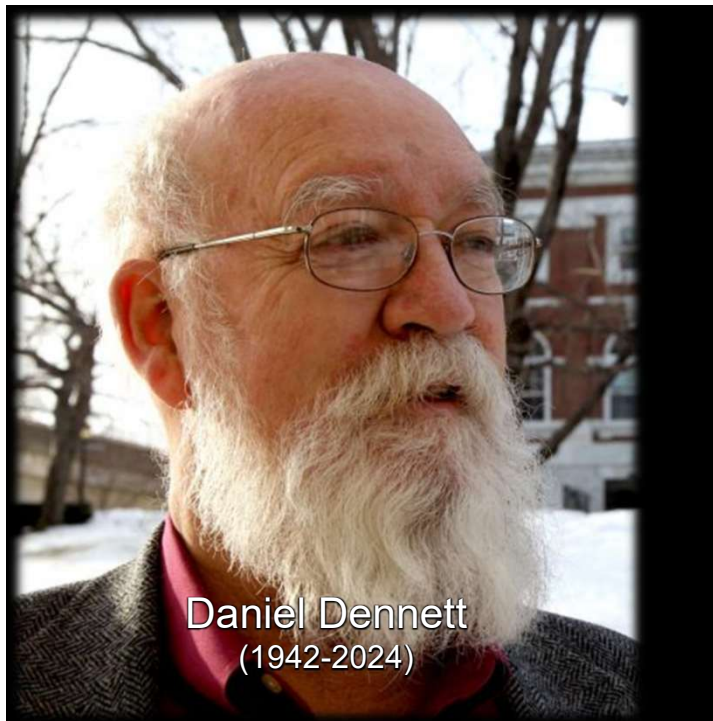




Daniel Dennett
(1942-2024)

"There are vigorous controversies swirling around in evolutionary theory, but those who feel threatened by Darwinism should not take heart from this fact. ... **The basic Darwinian idea ... is about as secure as any in science**"

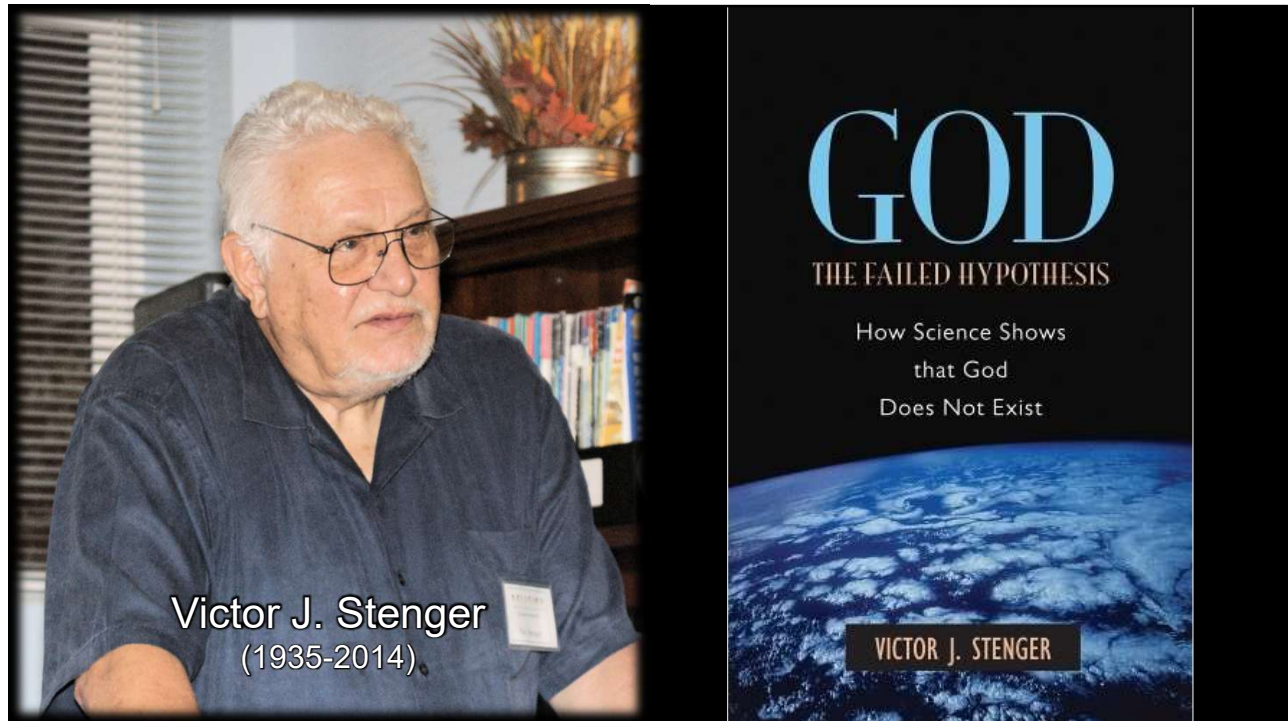
[Daniel C. Dennett, *Darwin's Dangerous Idea*, p. 19]



Daniel Dennett
(1942-2024)

"If you insist on teaching your children falsehoods—that the **Earth is flat, that 'Man' is not a product of evolution** by natural selection—then ... we will ... describe your teachings as the spreading of falsehoods, and will attempt to demonstrate this to your children at our earliest opportunity."

[Daniel Dennett, *Darwin's Dangerous Idea: Evolution and the Meaning of Life* (New York: Simon & Schuster, 1995), 519]



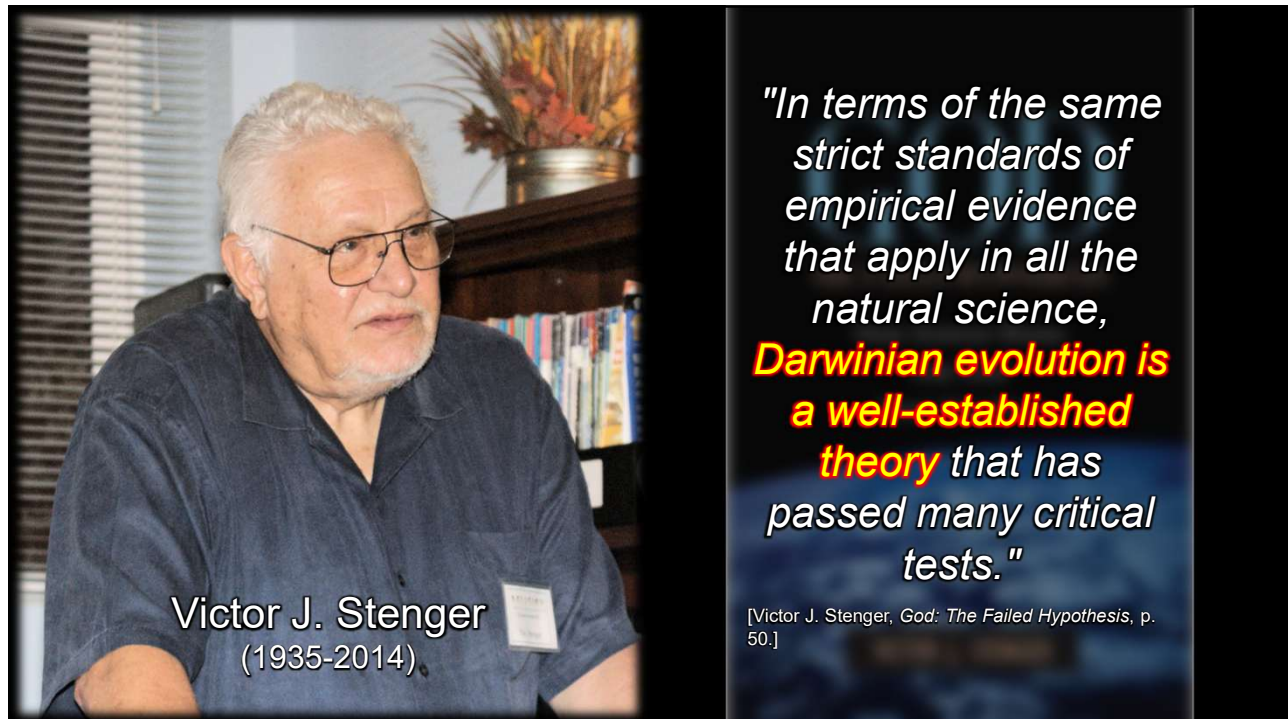
Victor J. Stenger
(1935-2014)

GOD

THE FAILED HYPOTHESIS

How Science Shows
that God
Does Not Exist

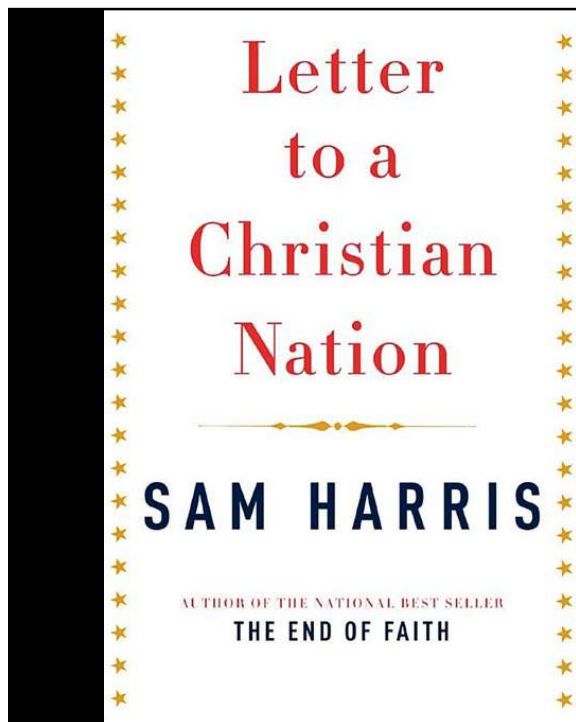
VICTOR J. STENGER



Victor J. Stenger
(1935-2014)

"In terms of the same strict standards of empirical evidence that apply in all the natural science, Darwinian evolution is a well-established theory that has passed many critical tests."

[Victor J. Stenger, *God: The Failed Hypothesis*, p. 50.]



*"Here is what we know. ... **There is no question** that human beings evolved from nonhuman ancestors ... There is no reason whatsoever to believe that individual species were created in their present forms."*

[Sam Harris, *Letter to a Christian Nation*, pp. 71]





"The basic Darwinian idea . . . is about as secure as any in science ..."

Challenging evolution is on par with believing in a flat Earth.

"Darwinian evolution is a well-established theory. "

"There is no question . . ."

Challenging evolution is on par with challenging the Moon landing.

Is this so?

The screenshot shows a website with a navigation bar at the top containing links for 'About', 'Scientists', 'FAQ', 'Download', 'Resources', 'Contact', and 'Donate'. The main content area has a blue header with the text: "We are skeptical of claims for the ability of random mutation and natural selection to account for the complexity of life. Careful examination of the evidence for Darwinian theory should be encouraged." Below this is a video player showing a grid of speakers. The video title is "Growing Number of Scientists are Skeptical of Darwinian Theory". Below the video player is an orange section with two buttons: "Sign the List" and "Download the List". To the right of these buttons is the text: "There Is Scientific Dissent From Darwinism. It deserves to be heard." At the bottom of the page is a blue section with a quote: "Scientific journals now document many scientific problems and criticisms of evolutionary theory and students need to know about these as well.... Many of the scientific criticisms of which I speak are well known by scientists in various disciplines, including the disciplines of chemistry and biochemistry, in which I have done my work." The quote is attributed to Philip A. Ball, Member National Academy of Sciences, Emeritus Dean Peugh Professor at Pennsylvania State University. At the very bottom, there is a row of small flags representing various countries and their corresponding language codes: chn, fin, fra, deu, spa, ita, jpn, kor, ind, ger, rus, esp, tur.



“We are skeptical of claims for the ability of random mutation and natural selection to account for the complexity of life. Careful examination of the evidence for Darwinian theory should be encouraged.”



[✍ Sign the List](#)

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There Is Scientific Dissent From Darwinism.
It deserves to be heard.

"Scientific journals now document many scientific problems and criticisms of evolutionary theory and students need to know about these as well. ... Many of the scientific criticisms of which I speak are well known by scientists in various disciplines, including the disciplines of chemistry and biochemistry, in which I have done my work."

Philip S. Skell, Member National Academy of Sciences, Emeritus Evan Pugh Professor at Pennsylvania State University





A GROWING NUMBER OF SCIENTISTS ARE SKEPTICAL OF **DARWINIAN THEORY.**

A SCIENTIFIC DISSENT FROM DARWINISM

“We are skeptical of claims for the ability of random mutation and natural selection to account for the complexity of life. Careful examination of the evidence for Darwinian theory should be encouraged.”

This was last publicly updated July 2025. Scientists listed by doctoral degree or current position.

Philip Skell*
Lyle H. Jensen*
Maciej Giertych
Lev Belousov*
Eugene Buff

Emil Palecek
K. Mosto Onuoha
Ferenc Jeszenszky
M.M. Ninan

Denis Fesenko
Sergey I. Vdovenko

Henry Schaefer
Paul Ashby
Israel Hanukoglu
Alan Linton

Dean Kenyon
David W. Forstlund
Robert W. Bass*
John Hey
Daniel W. Heinze
Donald Ewert
Russell Carlson
David Chapman*
Giuseppe Sermonti*
Stanley Salthe
Marcos N. Eberlin

Emeritus, Evan Pugh Prof. of Chemistry, Pennsylvania State University
Professor Emeritus, Dept. of Biological Structure & Dept. of Biochemistry
Full Professor, Institute of Dendrology
Prof. of Embryology, Honorary Prof., Moscow State University
Ph.D. Genetics

Prof. of Molecular Biology, Masaryk University; Leading Scientist
Shell Professor of Geology & Deputy Vice-Chancellor, Univ. of Nigeria
Former Head of the Center of Research Groups
Former President

Junior Research Fellow, Engelhardt Institute of Molecular Biology
Senior Research Assistant, Department of Fine Organic Synthesis

Director, Center for Computational Quantum Chemistry
Ph.D. Chemistry
Professor of Biochemistry and Molecular Biology Chairman
Emeritus Professor of Bacteriology

Emeritus Professor of Biology
Ph.D. Astrophysics, Princeton University
Ph.D. Mathematics (also: Rhodes Scholar, Post-Doc at Princeton)
Associate Clinical Prof. (also: Fellow, American Geriatrics Society)
Ph.D. Geophysics (also: Post-Doc Fellow, Carnegie Inst. of Washington)
Ph.D. Microbiology
Emeritus Professor of Biochemistry & Molecular Biology
Senior Scientist
Professor of Genetics, Ret. (Editor, Rivista di Biologia/Biology Forum)
Emeritus Professor Biological Sciences
Professor, The State University of Campinas (Brazil)

Member of the National Academy of Sciences
University of Washington, Fellow AAAS
Polish Academy of Sciences
Member, Russian Academy of Natural Sciences
Institute of Developmental Biology,
Russian Academy of Sciences
Inst. of Biophysics, Academy of Sci., Czech Republic
Fellow, Nigerian Academy of Science
Hungarian Academy of Sciences
Hindustan Academy of Science,
Bangalore University (India)
Russian Academy of Sciences (Russia)
Institute of Bioorganic Chemistry and Petrochemistry
Ukrainian National Academy of Sciences (Ukraine)
University of Georgia
Harvard University
The College of Judea and Samaria (Israel)
University of Bristol (UK)

San Francisco State University
Fellow of American Physical Society
Johns Hopkins University
Dept. of Family Medicine, Univ. of Mississippi
Texas A&M University
University of Georgia
University of Georgia
Woods Hole Oceanographic Institution
University of Perugia (Italy)
Brooklyn College of the City University of New York
Member, Brazilian Academy of Science

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| Michael J. Kavaya | Senior Scientist | NASA Langley Research Center |
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| James Pierre Hauck | Professor of Physics & Astronomy | University of San Diego |
| Olen R. Brown | Former Professor of Molecular Microbiology & Immunology | University of Missouri, Columbia |
| Eshan Dias | Ph.D. Chemical Engineering | King's College, Cambridge University (UK) |
| Joseph Atkinson | Ph.D. Organic Chemistry | Massachusetts Institute of Technology |
| Dennis Dean Rathman* | Staff Scientist | MIT Lincoln Laboratory |



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| Margaret Flowers | Fellow | American College of Nutrition |
| Etienne Windisch | Professor of Biology | Wells College |
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| | Ph.D. Physiology & Biophysics | University of Washington |

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| Robert Blomgren | Ph.D. Mathematics | University of Minnesota |
| Kenneth French | Chairman, Division of Natural Science | Blinn College |
| Richard N. Taylor | Professor of Information & Computer Science | University of California, Irvine |
| Stephen C. Knowles | Ph.D. Marine Science | University of North Carolina, Chapel Hill |
| Marvin Fritzier | Professor of Biochemistry & Molecular Biology | University of Calgary Medical School (Canada) |
| Mark L. Psiaki | Professor of Mechanical and Aerospace Engineering (Ph.D., Princeton) | Cornell University |
| Walter E. Lillo | Ph.D. Electrical Engineering | Purdue University |
| Mark Fuller | Ph.D. Microbiology | University of California, Davis |
| Daniel Galassini | Doctor of Veterinary Medicine | Kansas State University |
| Stanley E. Zager* | Professor Emeritus, Chemical Engineering | Youngstown State University |
| Andrew Fong | Ph.D. Chemistry | Indiana University |
| John Garth | Ph.D. Physics | University of Illinois, Champaign-Urbana |
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| Remo Badii | Ph.D. Theoretical Physics | University of Zurich |
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| Stephen Taylor | Professor of Physical Electronics and Electromagnetics | University of Liverpool |
| Jacobus van der Maas | Ph.D. Experimental Solid State Physics | University of Lausanne, Switzerland |
| Vladimir F. Matveev | Former Principal Research Scientist | CSIRO Australia |
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| Laurent Morin | Ph.D. Physiology | University of Denis Diderot |
| Franco Bampi | Full Professor, Faculty of Engineering | University of Genoa |
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| Tim Droubay | Ph.D. Physics | University of Wisconsin-Milwaukee |
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| John S. Roden | Associate Professor of Biology | Southern Oregon University |
| Donald W. Russell | Adjunct Assistant Clinical Professor | University of North Carolina School of Medicine |
| Neil Amitage | Associate Professor of Civil Engineering | University of Cape Town (South Africa) |
| Geoff Barnard | Senior Research Scientist, Department of Veterinary Medicine | University of Cambridge (UK) |
| Richard Hassing | Ph.D. Theoretical Physics | Cornell University |
| Olivia Torres | Professor-Researcher (Human Genetics) | Autonomous University of Guadalajara (Mexico) |
| Donald A. Kangas | Professor of Biology | Truman State University |
| Alvin Masanra | Senior Lecturer for Structural Engineering and Mechanics | University of Cape Town (South Africa) |
| George A. Ekama | Professor, Water Quality Engineering, Dept of Civil Engineering | University of Cape Town (South Africa) |
| Alistair Donald | Ph.D. Environmental Science/Quaternary or Pleistocene Palynology | University of Wales (UK) |
| Thomas C. Majerus | Ph.D. FCCP | University of Minnesota |
| Ferenc Farkas | Ph.D. Applied Chemical Sciences | Technical University of Budapest (Hungary) |
| Scott A. Chambers | Affiliate Professor of Chemistry and Materials Science & Engineering | University of Washington |
| Cris Eberle | Ph.D. Nuclear Engineering | Purdue University |
| Dennis M. Sullivan | Professor of Biology and Bioethics | Cedarville University |
| Rodney M. Rutland | Department Head & Associate Professor of Kinesiology | Anderson University |
| Alastair M. Noble | Ph.D. Chemistry | University of Glasgow (Scotland) |
| Robert D. Orr | Professor of Family Medicine | University of Vermont College of Medicine |
| Laverne Miller | Clinical Associate Professor of Family Medicine | Medical College of Ohio |
| Laura Burke | Former Associate Professor of Industrial Engineering | Lehigh University |
| Terry W. Spencer | Former Chair, Department of Geology & Geophysics | Texas A&M University |
| Bert Massie | Ph.D. Physics | University of California, Los Angeles |
| Mark C. Porter | Ph.D. Chemical Engineering | Massachusetts Institute of Technology |
| S. Thomas Abraham | Assistant Professor of Pharmacology & Toxicology | Campbell University School of Pharmacy |
| John L. Hoffer | Professor of Engineering; (also) Professor of Anesthesiology | Texas A&M University College of Engineering; Texas A&M Univ. Syst. Health Science Center |
| Herman Branover | Professor of Mechanical Engineering | Ben-Gurion University (Israel) |
| Martin Krause | Research Scientist (Astronomy) | University of Cambridge (UK) |
| James G. Bentsen | Ph.D. Chemistry | Massachusetts Institute of Technology |

| | | |
|------------------------|---|--|
| Charles N. Dezell | Professor of Mathematics (Ph.D. Stanford) | Louisiana State University |
| Curtis Hrischuk | Ph.D. Electrical Engineering | Carleton University (Canada) |
| Guang-Hong Chen | Assistant Professor of Medical Physics & Radiology | University of Wisconsin-Madison |
| Doug Hufstедler | Ph.D. Animal Nutrition | Texas A&M University |
| Justin Long | Ph.D. Chemical Engineering | Iowa State University |
| James E. Rankin | Ph.D. General Relativity | Yeshiva University (Israel) |
| Donald F. Smeed | Research Professor (Microbiology) | Utah State University |
| Colin R. Reeves | Professor of Operational Research (Ph.D. Evolutionary Algorithms) | Coventry University (UK) |
| Eugene K. Balon | University Professor Emeritus, Department of Integrative Biology | University of Guelph (Canada) |
| William F. Smith | Ph.D. in Molecular & Cellular Biology | McGill University |
| William A. Eckert III | Ph.D. in Cell & Molecular Physiology | University of North Carolina, Chapel Hill |
| Hannes Fischer | Ph.D. in Molecular Biology | University of Pennsylvania |
| Ronald D. DeGroat | Ph.D. Electrical Engineering | University of Colorado at Boulder |
| John R. Fritch | Ph.D. in Chemistry | University of California Berkeley |
| Emilio Cervantes | Ph.D. in Molecular Biology | University of Salamanca, Spain |
| Charles A. Rodenberger | Ph.D. in Aerospace Engineering | University of Texas at Austin |
| William Murphy | Ph.D. in Chemistry | Columbia University |
| Valdemar W. Setzer | Ph.D. in Applied Mathematics | University of São Paulo, Brazil |
| Brandon van der Ventel | Ph.D. in Theoretical Nuclear Physics | Stellenbosch University |
| Eric Montgomery | Ph.D. in Physics | Stellenbosch University |
| Neil Steiner | Ph.D. in Electrical Engineering | Virginia Tech |
| Ferenc Tóth | Ph.D. in Agricultural Sciences | Szent István University, Gödöllő, Hungary |
| Christian A. Widener | Ph.D. Mechanical Engineering | Wichita State University |
| Timothy H. Heil | Ph.D. in Computer Engineering | University of Wisconsin, Madison |
| Fred B. Maas | Ph.D. in Agronomy | Purdue University |
| Mike Viccary | Ph.D. in Solid State Chemistry | University of Bradford |
| Michael N. Keas | Ph.D. History of Science | University of Oklahoma |
| Gerald Pech | Ph.D. in Satellite Communications & Networking | Supaero (Higher Inst. of Space and Aeronautics), France |
| Marco Fasoli | Ph.D. in Biochemistry | University of Cambridge (UK) |
| Chrystal L. Ho Pao | Assistant Professor of Biology (Ph.D. Molecular Genetics, Harvard U.) | Trinity International University |
| Donald E. Johnson | Ph.D. Computer & Information Sciences Also: Ph.D. Chemistry | University of Minnesota |
| James Campbell | Ph.D. in Physics | Michigan State University |
| Alex Chediak | Professor of Engineering and Physics | Virginia Polytechnic Institute and State University |
| J. Richard Kiper | Ph.D. in Computing Technology in Education | California Baptist University |
| Steve Overell | Ph.D. in Solid State Physics | Graduate School of Computer and Information Sciences, Nova Southeastern University |
| Zoltán Sütő | M.D., Ph.D. in Medicine, Dept. of Pulmonology | Edinburgh University |
| Kristian M. Arason | Ph.D. in Medicinal Chemistry | Semmelweis University Budapest, Hungary |
| Robert Beckett | Ph.D. in Animal Genetics | Ohio State University |
| Kirk Cameron | Ph.D. in Statistics | Ohio State University |
| William E. Solomons | Ph.D. Medicinal Chemistry | Stanford University |
| Everett T. Solomons | Ph.D. Medicinal Chemistry | The University of Mississippi School of Pharmacy |
| James N. Cummins | Emeritus Professor of Pomology | The University of Mississippi School of Pharmacy Cornell University |

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|-----------------------|---|--|
| Chad Dechow | Assistant Professor of Dairy Genetics | Penn State University |
| Dale A. Dickinson | Assistant Professor & Graduate Program Director, School of Public Health | University of Alabama Birmingham |
| Gerald C. Van Dyke | Professor of Botany & Plant Pathology | North Carolina State University |
| Paul N. Dunlap | Ph.D. in Chemical Engineering | California Institute of Technology |
| Yupeng (David) He | Ph.D. in Microbiology | University of Washington |
| Matthew Harvey Jones | Ph.D. in Mechanical and Aeronautical Engineering | University of California, Davis |
| Donald Linn | Ph.D. in Chemistry | University of Georgia |
| James R. Matthews | Ph.D. in Materials Engineering | MIT |
| Doug Peters | Ph.D. in Electrical Engineering | University of Virginia |
| Terry L. Rathman | Ph.D. in Organic Chemistry | Virginia Tech |
| Philip C. Sekar | Ph.D. in Medical Chemistry | University of Delhi |
| Evgeny Selensky | Ph.D. in Physics and Mathematics | Moscow State University |
| Craig Thomas | Ph.D. in Animal Science | University of Florida |
| Ron Voss | Ph.D. in Chemistry | University of Manitoba |
| Wesley Brewer | Ph.D. in Computational Engineering | Mississippi State University |
| Keith Diaz | Ph.D. in Integrative Exercise Physiology | Temple University |
| Clifford Hull, Jr. | Ph.D. in Analytical and Biological Chemistry | University of South Carolina |
| Luis Santamaria | Professor of Histology, Dept. of Anatomy, Histology, and Neuroscience | Autonomous University of Madrid |
| David Tong | Ph.D. in Experimental Atomic, Molecular, and Optical Physics | University of Connecticut |
| Amaro Carvalho Camilo | Ph.D. in Cellular and Structural Biology | University of Vicosá |
| David (Dale) Gottlieb | Ph.D. in Philosophy – Mathematical Logic | Brandeis University |
| Jeng-Kuang Hwang | Ph.D. in Electrical Engineering | National Tsing-Hua University |
| Ramsin Khoshabeh | Ph.D. in Electrical and Computer Engineering | University of California, San Diego |
| Ming-blu Leung | Ph.D. in Civil Engineering | University of Illinois |
| Pekka Maattanen | Ph.D. in Biochemistry | McGill University (Canada) |
| Timothy Cooper | Ph.D. Chemical Engineering | University of Wisconsin |
| John F. Whitesides | Assistant Prof. of Medicine, ret. (Ph.D. Veterinary Science, Auburn University) | Duke University |
| Victor Meyer | Ph.D. Entomology | University of Pretoria |
| Onsi Fakhouri | Ph.D. Astrophysics | University of California, Berkeley |
| Jonathan McLatchie | Ph.D. Evolutionary Biology | University of Newcastle upon Tyne |
| Casey Luskin | Ph.D. Geology | University of Johannesburg |
| Alun W. G. James | Ph.D. Organic Chemistry | Cardiff University |
| Ayman Bahaa-Eldin | Dean, Faculty of Computer Science Professor of Computer Engineering | Misr International University Ain Shams University, Cairo |
| John S. Torday | Professor of Pediatrics, Obstetrics and Gynecology Fellow, The European Academy of Sciences and Arts | UCLA |
| Adam Szanto-Varnagy | Ph.D. Physics | Eotvos University, Hungary |
| Michael J. Randall | Ph.D. Electrical Engineering | University of Cincinnati |
| John A. Werner | Ph.D. Organic Chemistry | Stanford University |
| Piotr Guńka | Assistant Professor, Faculty of Chemistry | Warsaw University of Technology |
| Wendell F. Hofman | Professor Emeritus, Dept. of Physiology, Vascular Biology Center | Medical College of Georgia |
| Richard L. Gregory | Professor of Biomedical Sciences, Comprehensive Care, Pathology, Laboratory Medicine | Indiana University Schools of Dentistry and Medicine |
| Don White, Jr. | James M. White Distinguished Professor of Wildlife Ecology | The University of Arkansas |
| Ouk Sub Lee | Ph.D. Mechanical Engineering | University of Washington |
| Mark F. Horstemeyer | Ph.D. Mechanical Engineering | Georgia Institute of Technology |

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|------------------------------|--|---|
| | Fellow of the American Association for the Advancement of Science (AAAS) | |
| Pieter Gaemers | Ph.D. Geology | University of Leiden (Netherlands) |
| Mohammed M. Mandurah | Ph.D. Electrical Engineering | Stanford University |
| Wayne Strasser | Ph.D. Mechanical Engineering | Virginia Tech |
| Haikel Ben Hamed | Assistant Professor of Physics | University of Picardy Jules Verne France |
| Jude Jerome D'Souza | Ph.D. Mathematics | Shri Jagdishprasad Jhabarmal Tibrewala University |
| Lawrence T. McHargue | Professor, Emeritus (Ph.D. Biology, University of California, Irvine) | Vanguard University of Southern California |
| James E. Carter III | Associate Professor, Nutrition and Dietetics (Ph.D. Biochemistry) | Loma Linda University |
| Thomas A. Zanardi | Ph.D. Biochemistry | Texas A&M University |
| Rodinei Augusti | Professor of Chemistry | Federal University of Minas Gerais, Brazil |
| Hendrich Redelinghuys | Ph.D. Food Science | University of Stellenbosch (South Africa) |
| W. Mark Potampa | Clinical Associate Professor of Ophthalmology, Retired | University of Washington |
| Mohamad Nada | Assistant Professor in Immunopathology | American University of Iraq |
| Michael Milroy | Ph.D. Mechanical Engineering | University of Victoria |
| André Luis Brasil Cavalcante | Ph.D. Geotechnics | University of Brasilia |
| Duncan Kilburn | Ph.D. Meteorology and Remote Sensing | University of Birmingham UK |
| Marty Buchanan | Ph.D. Cell Biology | University of Texas Southwestern |
| Nurullah Türker | Assistant Professor in Clinical Sciences, Faculty of Dentistry | Akdeniz University |
| Musruhan Rahman | Ph.D. Biochemistry and Molecular Biology | Australian National University |
| Gerald K. McEwen | Ph.D. in Chemistry | Iowa State University |
| Suzanne Phillips | Chair of Biology Department | Southwestern Adventist University |
| Wei H. Ruan | Professor of Mathematics | Purdue University, Calumet |
| Terry Strout | Ph.D. in Chemical Engineering | University of Maine |
| Paolo Cioni | Contract Professor, Psychology, Faculty of Medicine | University of Pisa and Florence |
| George A. Damoff | Ph.D. in Forestry | Stephen F. Austin State University |
| Charles W. Slack | Ph.D. in Psychology | Princeton |
| Stefano Brillanti | Associate Professor of Gastroenterology | University of Bologna |
| Ryan F. Estevez | Assistant Professor, Dept. of Psychiatry and Neurosciences | University of South Florida College of Medicine |
| Monty Craig Johnson | Ph.D. in Microbiology | Southern Illinois University |
| William Soo Hoo | Ph.D. in Biochemistry | University of Illinois, Champaign-Urbana |
| David L. MacQuarrie | Ph.D. in Evaluation, Measurement and Research | Western Michigan University |
| Mustafa McPherson | Ph.D. in Agronomy | Mississippi State University |
| Michael Barfield | Research Fellow, Dept. of Surgery | Duke University Medical Center |
| Lucija Tomljenovic | Ph.D. in Biochemistry | James Cook University (Australia) |
| David W. Chester | Ph.D. in Biochemistry | University of Connecticut |
| Julio A. Gonzalo | Professor of Solid State Physics, 1983-2006 | Universidad Autónoma de Madrid |
| John G. Leslie | Ph.D. Experimental Pathology | University of Utah |
| Hamza Saouli | Ph.D. Computer Science | University of Biskra, Algeria |
| Peter-Brian Andersson | DPhil Experimental Pathology | Oxford University (UK) |
| Mark Tabadillo | Ph.D. Industrial and Systems Engineering | Georgia Institute of Technology |
| Jean-Michel Olivereau | Professor of Neurosciences (retired) | University of Paris-Descartes |
| Timothy P. Gilmour | Ph.D. Electrical Engineering | Pennsylvania State University |
| Mark Liebe | Ph.D. Water Resources Engineering | Iowa State University |
| Edward Schmeichel | Emeritus Professor of Mathematics | San Jose State University |
| James Hodge | Ph.D. Chemistry | Pennsylvania State University |

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|--------------------------|--|--|
| Ernst Lutz | Ph.D. in Agricultural and Resource Economics | University of California, Berkeley |
| Istvan Fodor | Ph.D. in Molecular Biology | USSR Academy of Sciences (USSR) |
| Kelson Mota T. Oliveira | Associate Professor, Physical Chemistry | Universidade Federal do Amazonas (Brazil) |
| Rob Redfield | Professor, Dept. of Engineering Mechanics | US Air Force Academy |
| Brian E. Hunt | Associate Professor, Applied Health Science | Wheaton College |
| David Rolf | Ph.D. in Bioorganic Chemistry | University of Minnesota |
| Wayne Rossiter | Assistant Professor of Biology | Waynesburg University |
| Ralph A. Henderson Jr. | Professor Emeritus, Department of Clinical Sciences | Auburn University, College of Veterinary Medicine |
| Carlos Alberto Mourão Jr | Chief of Physiology Department | Universidade Federal de Juiz de Fora (Brazil) |
| Moses Noh | Ph.D. in Mechanical Engineering | Georgia Institute of Technology |
| Allan L. Bleecker | Ph.D. Biology | Rutgers University |
| John Rokos | Ph.D. Biochemistry | University of London |
| Dave B. Tribble | Professor of Physics (retired) | Loyola University of Chicago |
| Edgar P. Moraes | Professor of Chemistry | Federal University of Rio Grande do Norte (Brazil) |
| James P. O'Halloran | Ph.D. Psychology | University of California, Irvine |
| Izak J van der Walt | Professor, Philosophy of Science and Technology | North West University (South Africa) |
| Rex A. Parker | Ph.D. Biochemistry | Indiana University |
| Richard Webb | Ph.D. Physics | Washington State University |
| Robert W. West, Jr. | Emeritus Professor, Department of Biochemistry and Molecular Biology | SUNY Upstate Medical University |
| Matthew Weeks | Ph.D. Materials Science and Engineering | University of California, Irvine |
| Timothy D. Blackburn | Ph.D. Systems Engineering | The George Washington University |
| Teemu Langsjo | M.D., Ph.D. Anatomy | University of Eastern Finland |
| Peter Knibbe | Ph.D. Experimental Physics | University of Pennsylvania |
| Sebastian Michael | Ph.D. in Anthropology | University of Bombay |
| John Thatcher | Ph.D. Mathematics (Theoretical Astrophysics) | University of Sydney |
| John Rousseau | Ph.D. Physics | Oxford University |
| Alberto Vigato | Ph.D. Information Engineering | University of Padua, Italy |
| Kjell J. Tveter | Professor of Urology (retired) | University of Oslo |
| Rodrigo M. Pontes | Professor of Chemistry | The State University of Maringa (Brazil) |
| George-Adrian Lungu | Ph.D. Physics | University of Bucharest |
| Kirk Durston | Ph.D. Biophysics | University of Guelph |
| Márcio Lazzarotto | Professor, Organic Chemistry | Universidade Federal do Rio Grande do Sul (Brazil) |
| Greg W. Burgreen | Ph.D. Mechanical Engineering | Mississippi State University |
| Silviu Podariu | Ph.D. Cosmology | Kansas State University |
| Catherine K. Luk | Ph.D. in Biophysics | University of Rochester |
| Moshe Marikovsky | Ph.D. in Biology | Weizmann Institute of Science (Israel) |
| J.W. Sam Stevenson | Ph.D. in Organic Chemistry | University of South Carolina |
| Christopher Q. Lan | Associate Professor, Chemical and Biological Engineering | University of Ottawa (Canada) |
| Paul Craddock | Assistant Professor, Experimental Psychology | University of Lille (France) |
| Wilton Remigio | Assistant Professor, Department of Physical Therapy | Misericordia University |
| Samuel S. Valença | Associate Professor of Histology | Federal University of Rio de Janeiro (Brazil) |
| Yongfang Zhang | Ph.D. Electrical Engineering | California Institute of Technology |
| Betsy Siewert | Ph.D. in Biostatistics | University of Colorado, Denver |
| Edgar Andrews | Emeritus Professor of Materials Science | University of London, UK |
| Ryan T. Hayes | Ph.D. Chemistry | Northwestern University |

| | | |
|------------------------------|--|--|
| Sam S. Yoon | Professor of Mechanical Engineering | Korea University, Seoul, Korea |
| Iuliana Pasuk | Senior Researcher | National Institute of Materials Physics, Romania |
| Martin Klvana | Ph.D. Microbiology | Masaryk University, Czech Republic |
| Wessel P. Dirksen | Ph.D. in Molecular Biology and Microbiology | Case Western Reserve University |
| Günter Bechly* | Ph.D. Paleontology | Eberhard-Karls-Universität Tübingen |
| Patricia Wolfe | Ph.D. Molecular Pharmacology | Cornell University |
| Doo Jin Cho | Professor of Electronics | Ajou University, Korea |
| Jang Hoon Kim | Professor of Architecture | Ajou University, Korea |
| Rémi Plus | Doctor of Sciences | Paris University |
| | Former member, Société Française de Chimie Physique | |
| D. David Nowack | Ph.D. Nutritional Biochemistry | Purdue University |
| Dusan Fiala | Ph.D. Biophysics/Systems Biology | De Montfort University |
| Michael R. Shepard | Ph.D. Chemistry | University of Florida |
| Victor Enrique Vizcarra Ruiz | Professor of Physics | Universidade Estadual de Maringá |
| PremRaj Pushpakaran | Ph.D. Biotechnology | Jamia Hamdard, New Delhi, India |
| Dudley Eirich | Ph.D. Microbiology | University of Illinois, Champaign-Urbana |
| Guy F. Birkenmeier | Ph.D. Biochemistry | Washington State University |
| Paul Keough | Ph.D. Health Sciences | Northwestern University |
| Robert A. Sadler | Ph.D. Electrical Engineering & Applied Physics | Cornell University |
| Jeanine Schmidt | Ph.D. Applied Earth Sciences | Stanford University |
| David L. Black | Clinical Associate Professor of Pathology, Microbiology and Immunology | Vanderbilt University |
| Adam Brill | Ph.D. Organic Chemistry & Materials Science | Technion-Israel Institute of Technology |
| Samuel Y. Ng | Ph.D. Geotechnical Engineering | Oklahoma State University |
| Tobias A. Mattei | Assistant Professor of Neurosurgery | St. Louis University |
| Gary E. Hatch | Ph.D. Pharmacology | University of Utah |
| Tom Siewert | Ph.D. Metallurgy | University of Wisconsin, Madison |
| Gary S. Madonna | Ph.D. Microbiology | Uniformed Services University of the Health Sciences |
| Heon M. Lim | Professor of Biology | Chungnam National University, Daejeon, Korea (S) |
| Andrew J. Vermiglio | Doctor of Audiology | Central Michigan University |
| Roberto Bolli | Professor of Medicine | University of Louisville |
| Ferdinando Catalano | Former Associate Professor of Optical Measurements | University of Padua (Italy) |
| Douglas R. Hunter | Ph.D. Biochemistry | University of California, Davis |
| Michele Curti | Ph.D. Computer Science | Università di Pisa |
| Corky Cartwright | Ph.D. Computer Science | Stanford University |
| Craig Hostland | Ph.D. Environmental Engineering | University of British Columbia |
| James W. DeVocht | Ph.D. Biomedical Engineering | University of Iowa |
| John W. Hastings | Ph.D. Microbiological Sciences | University of Alberta |
| Charlie Biles | Professor of Biology (Emeritus) | East Central University (Ada, Oklahoma) |
| Ed Vezzey | Professor of Biology (Retired) | Oklahoma State University (Oklahoma City) |
| Alessandro Giorgetti | Former Professor of Special Zootechnics | University of Florence |
| Jie Wang | Professor of Computer Science | Boston University |
| Emily Brown Reeves | Biochemistry & Biophysics | Texas A&M University |
| Steven L. Wright | Ph.D. Biochemistry | University of Nebraska, Lincoln |
| Lisa Skipper | Ph.D. Genetics | University College London |
| Todd Hamilton | Ph.D. Physical Chemistry | Indiana University, Bloomington |

| | | |
|----------------|-----------------------------------|--|
| Gordon Hassing | Ph.D. Biological Chemistry | University of Michigan |
| David Uhr | Ph.D. Crop Science/Maize Breeding | North Carolina State University, Raleigh |
| Randy O. Wayne | Ph.D. Plant Cell Biology | University of Massachusetts, Amherst |

*= Deceased since signing statement.

Note: Unless updated information has been received, positions listed are those held by signatories when they signed the statement.

Observations

This doesn't prove that
Darwinism is false.

Observations

This doesn't mean that all
these signers repudiate
evolution entirely.

Observations

It does mean that statements such as

"The basic Darwinian idea . . . is about as secure as any in science ..."

Challenging evolution is on par with believing in a flat Earth.

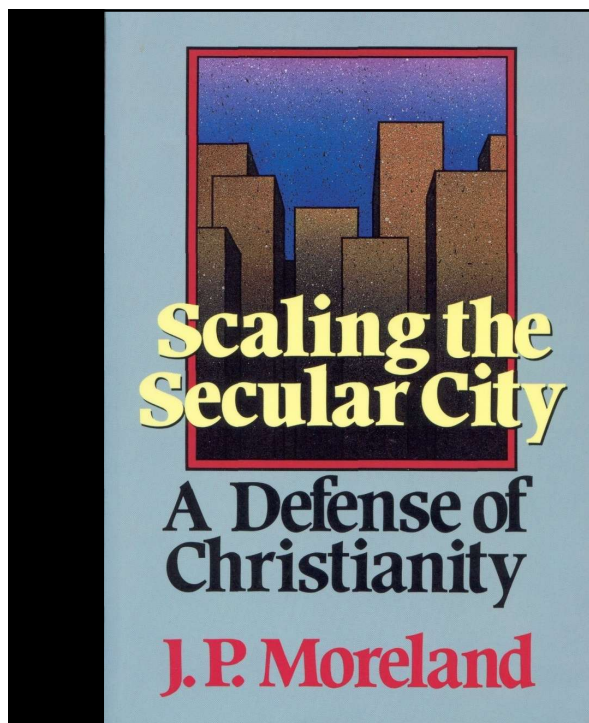
"Darwinian evolution is a well-established theory. "

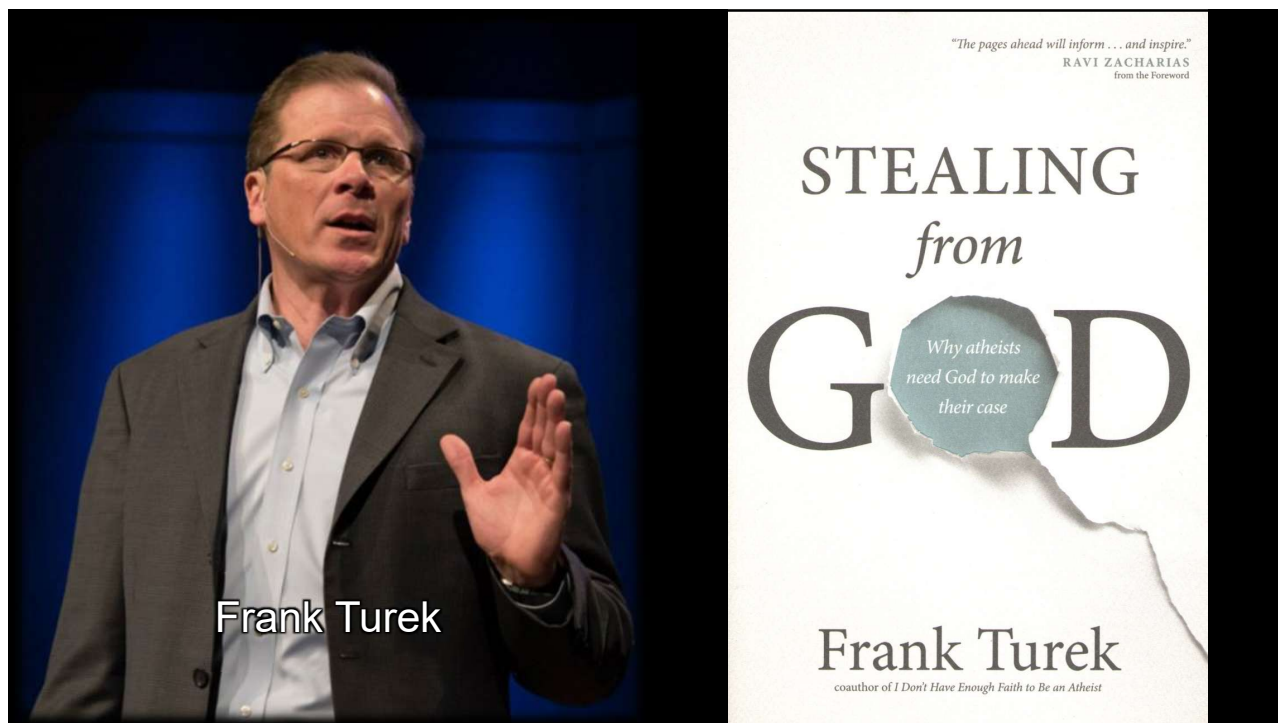
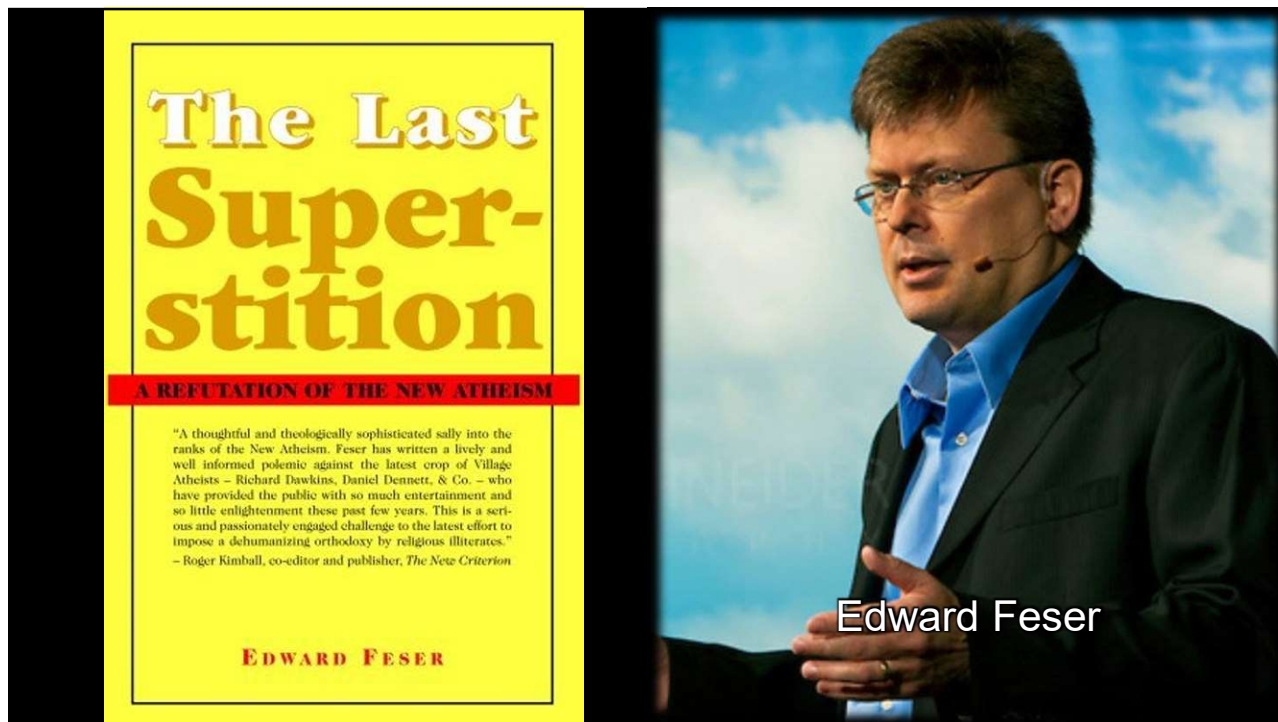
Challenging evolution is on par with challenging the Moon landing.

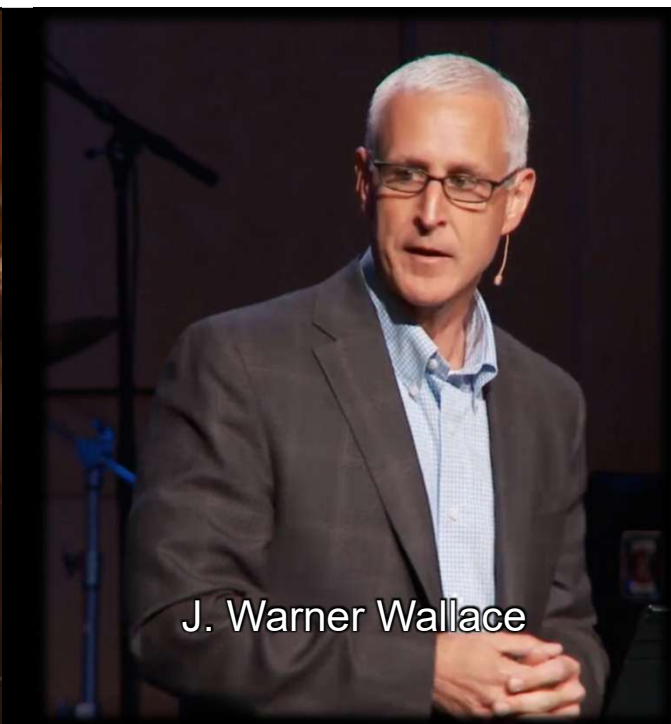
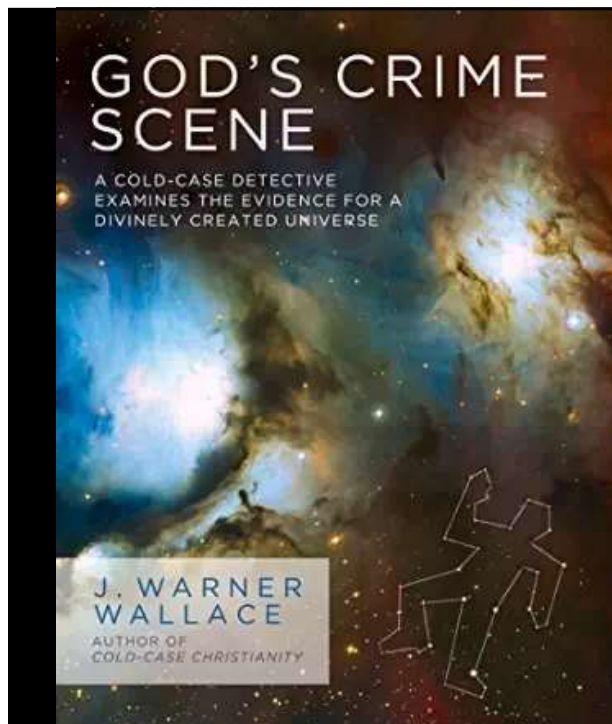
"There is no question . . ."

are unwarranted.

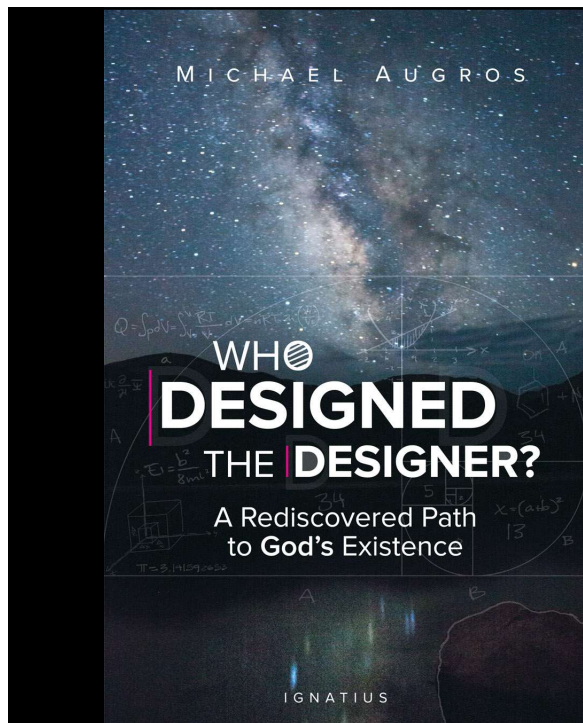




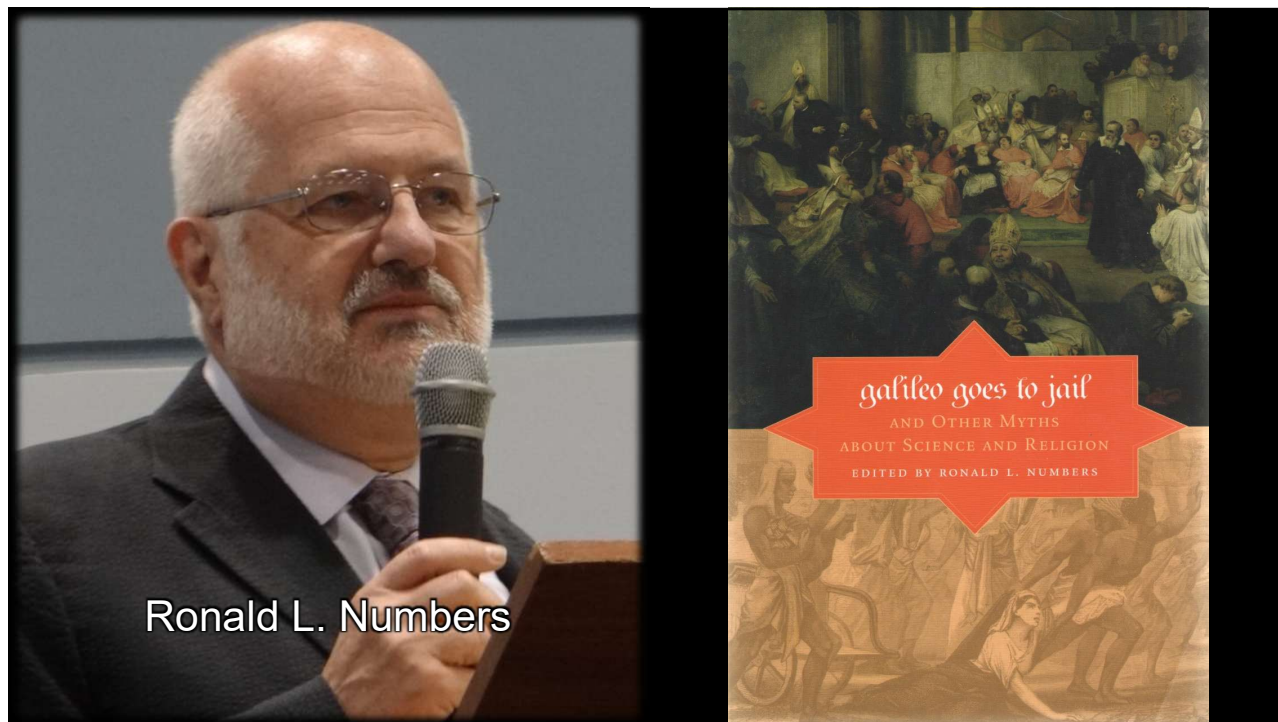




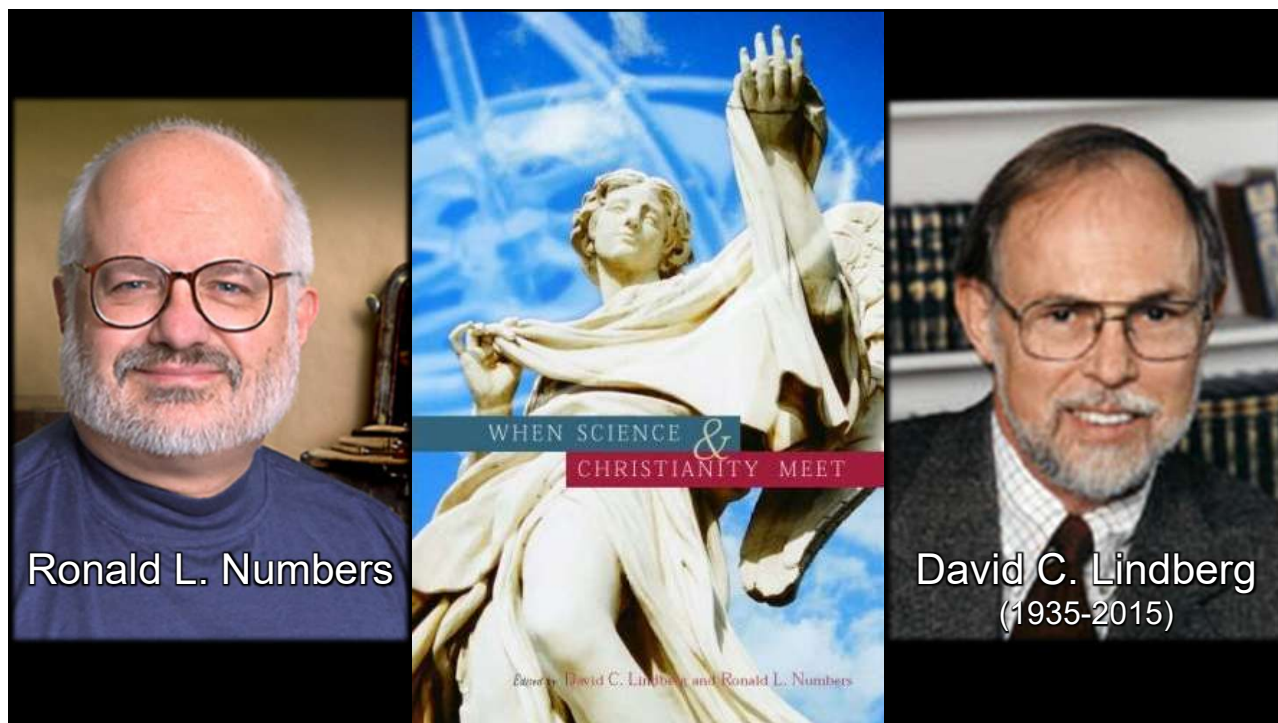
J. Warner Wallace



Michael Augros

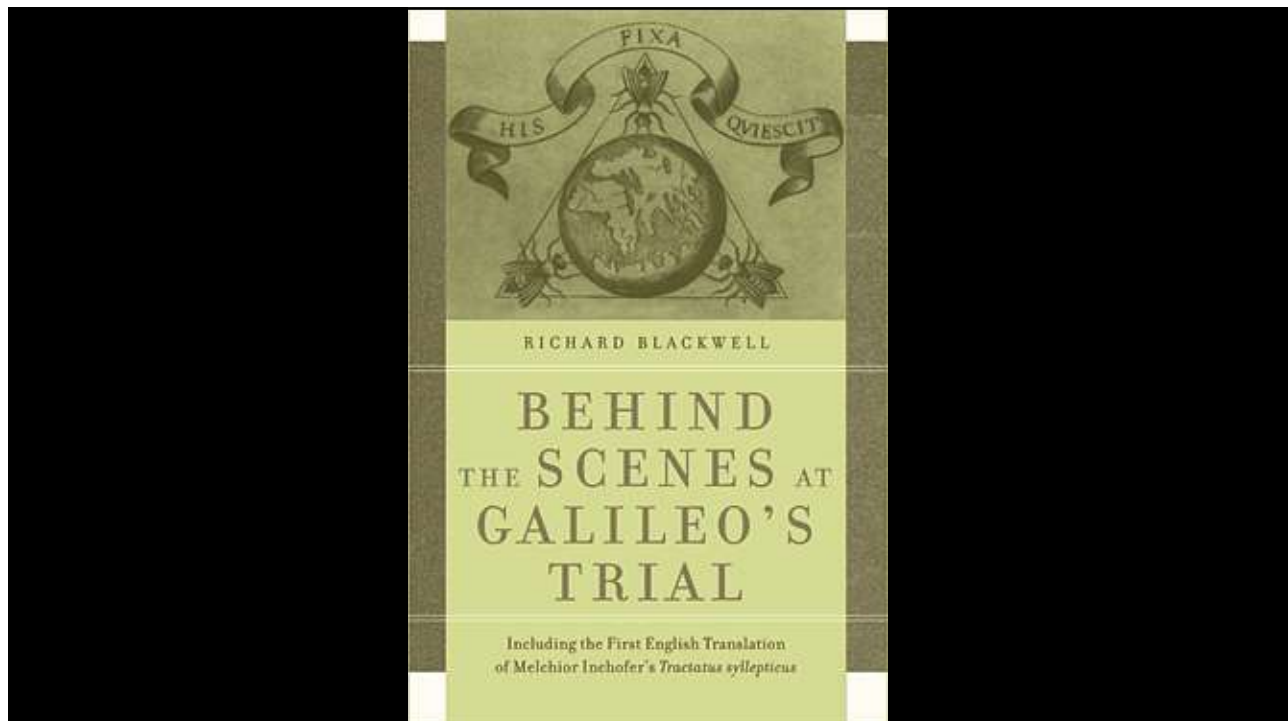
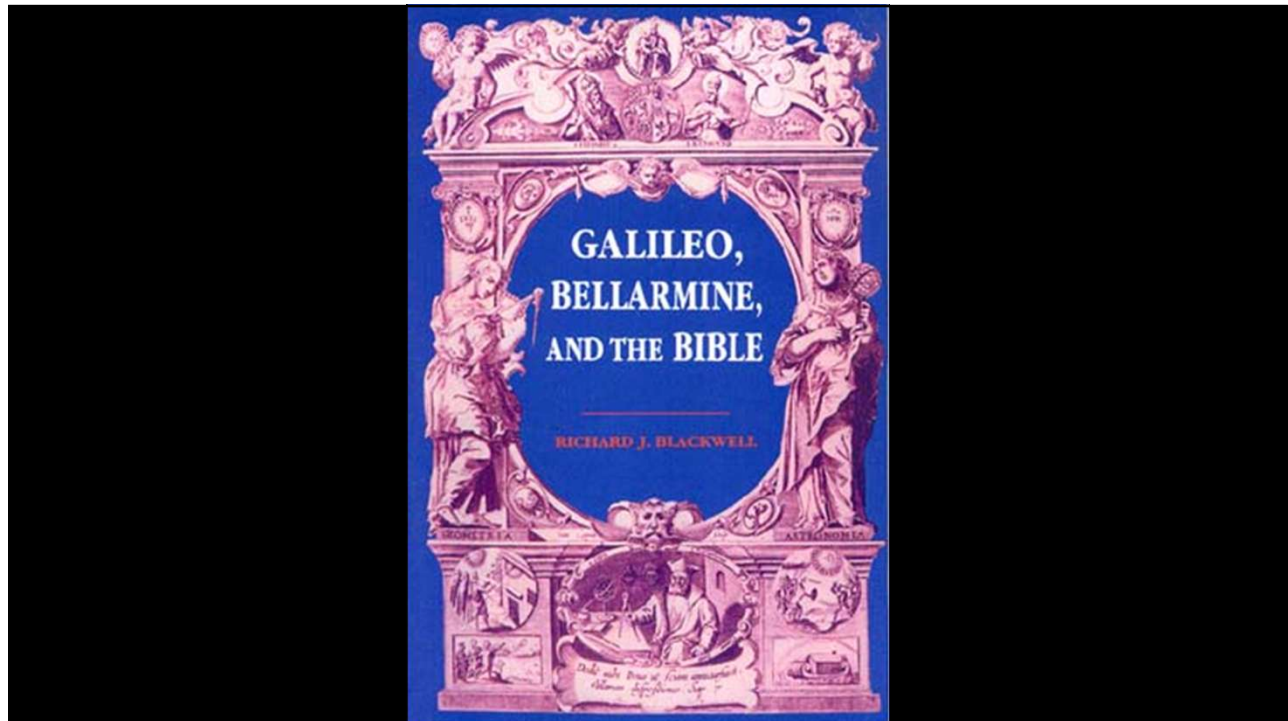


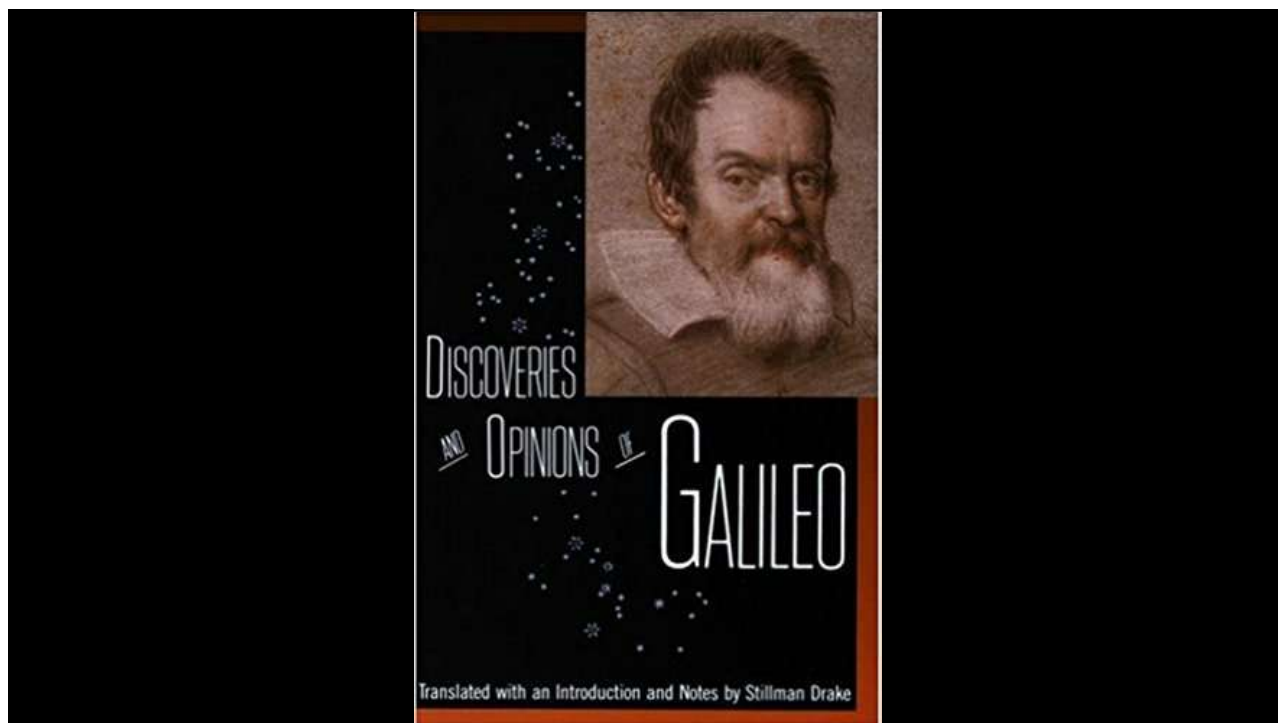
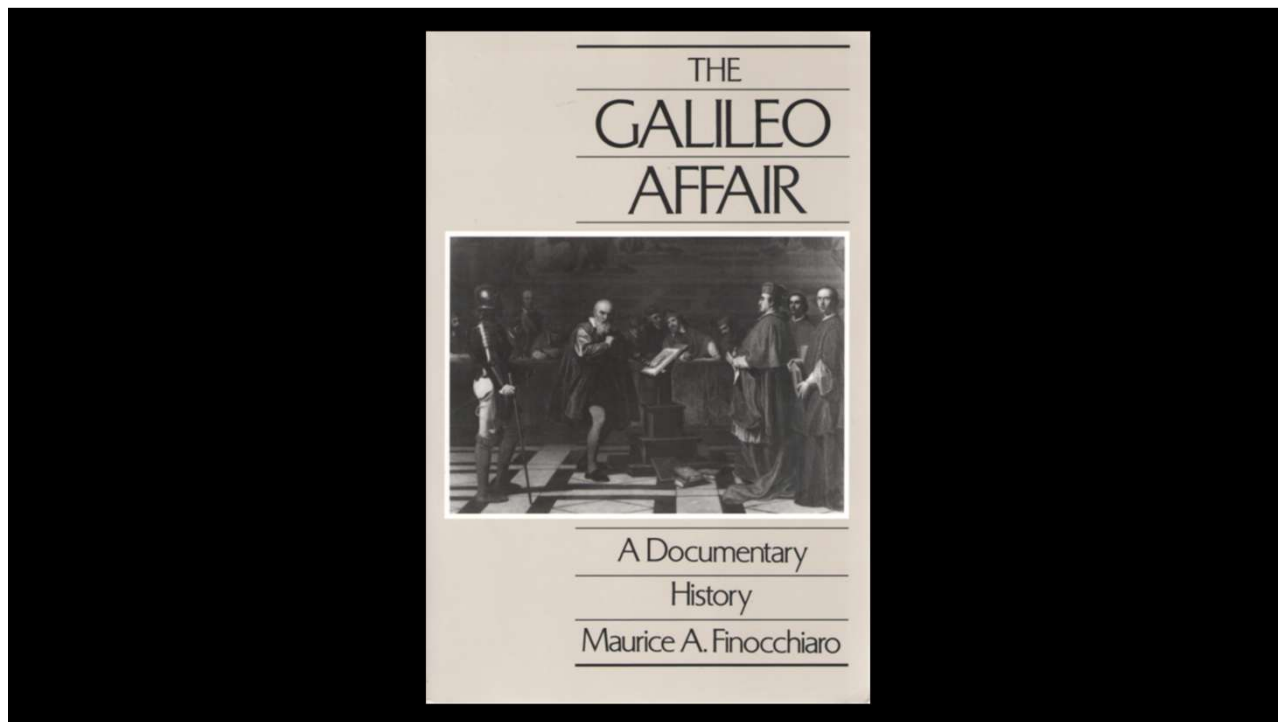
Ronald L. Numbers

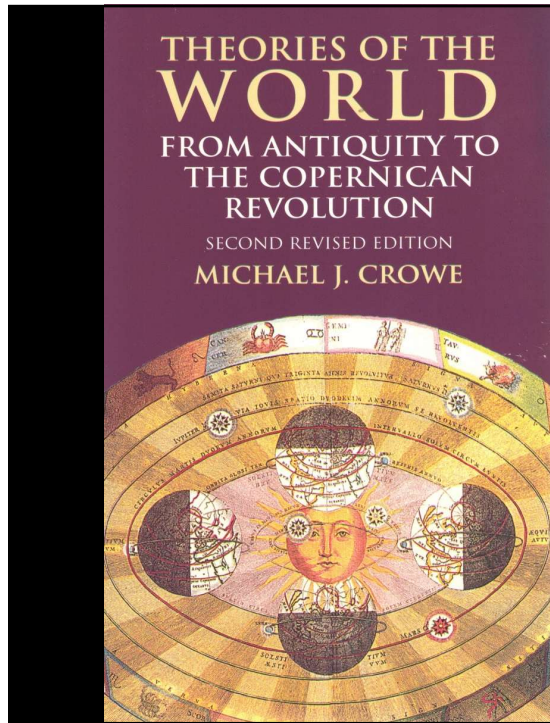


Ronald L. Numbers

David C. Lindberg
(1935-2015)

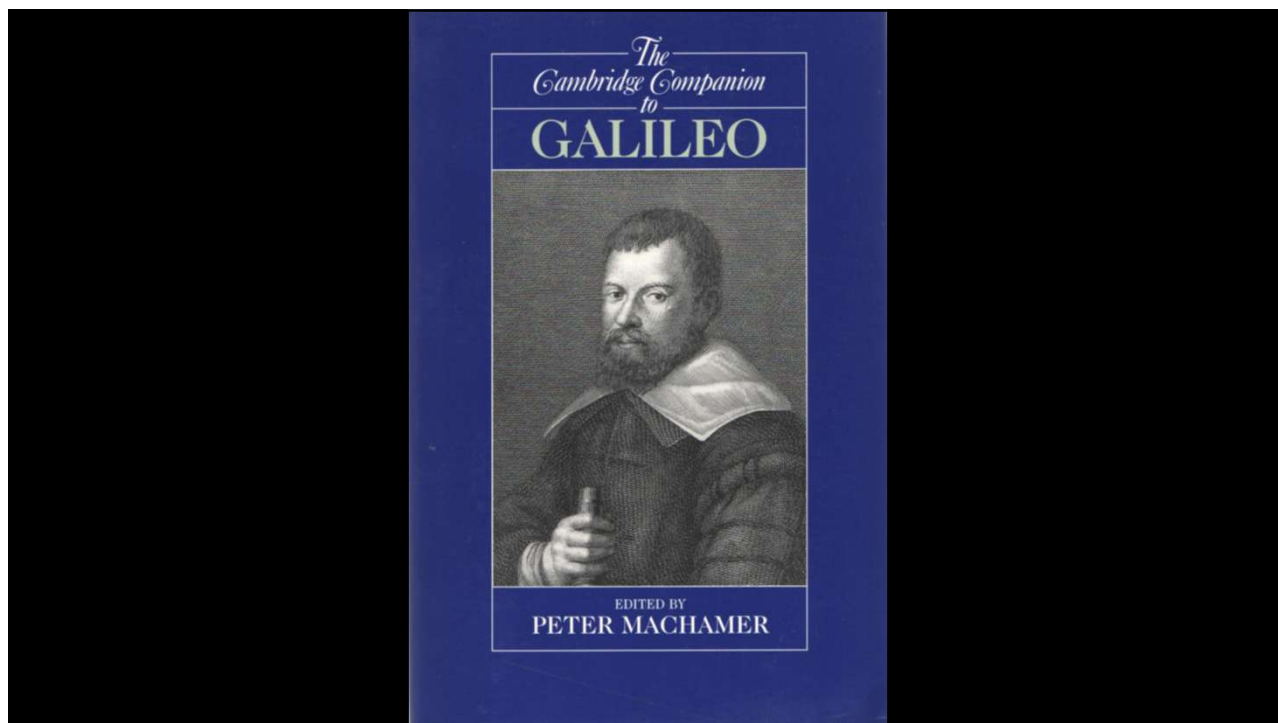
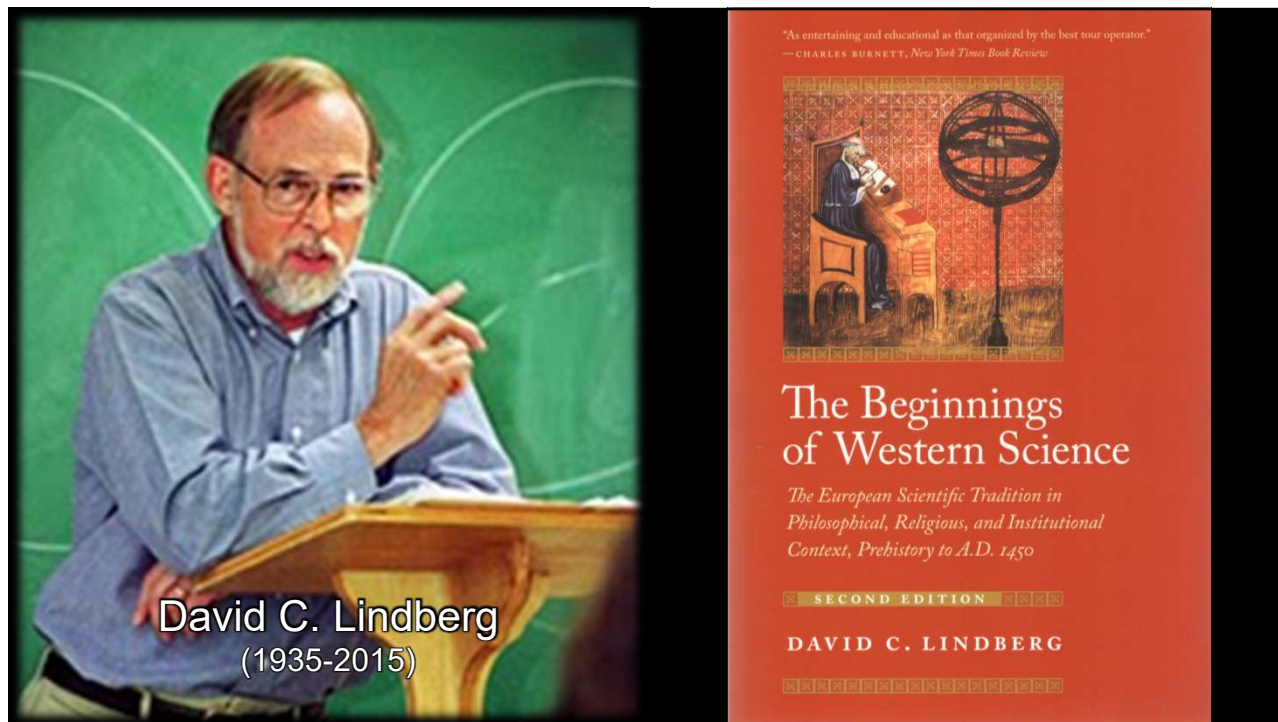


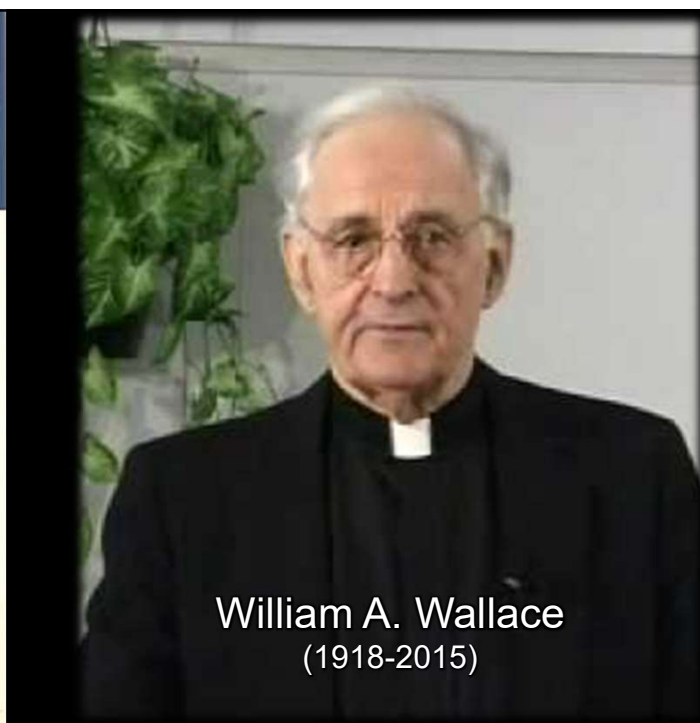
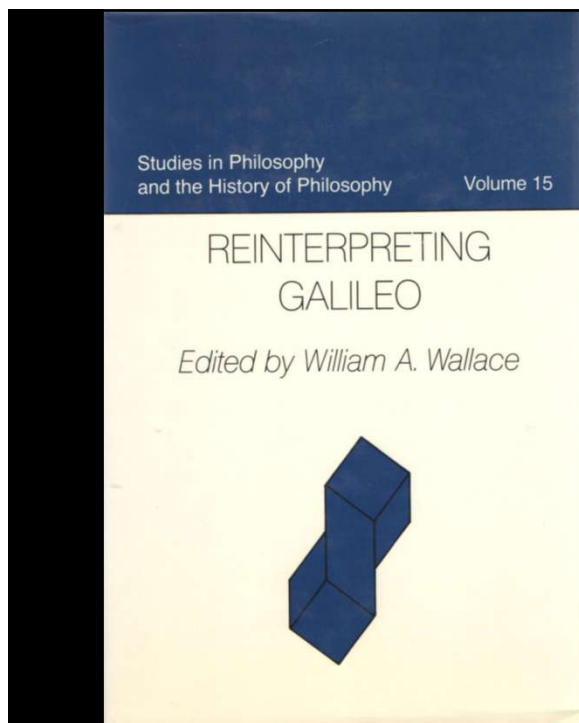
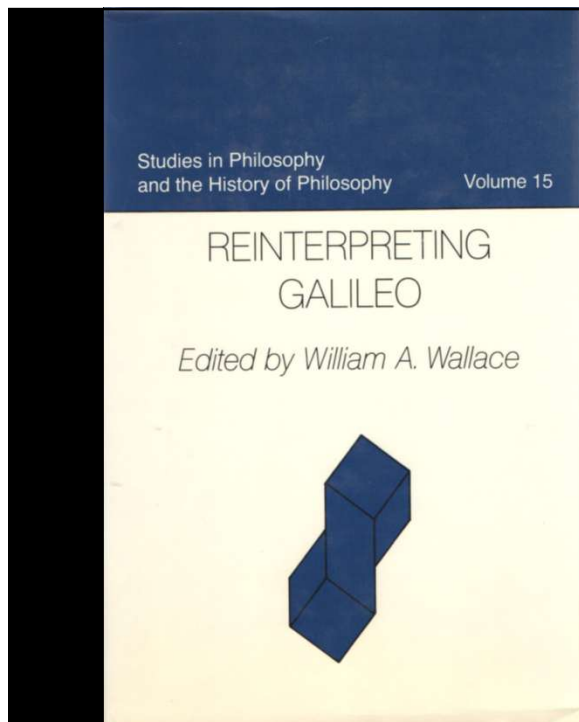


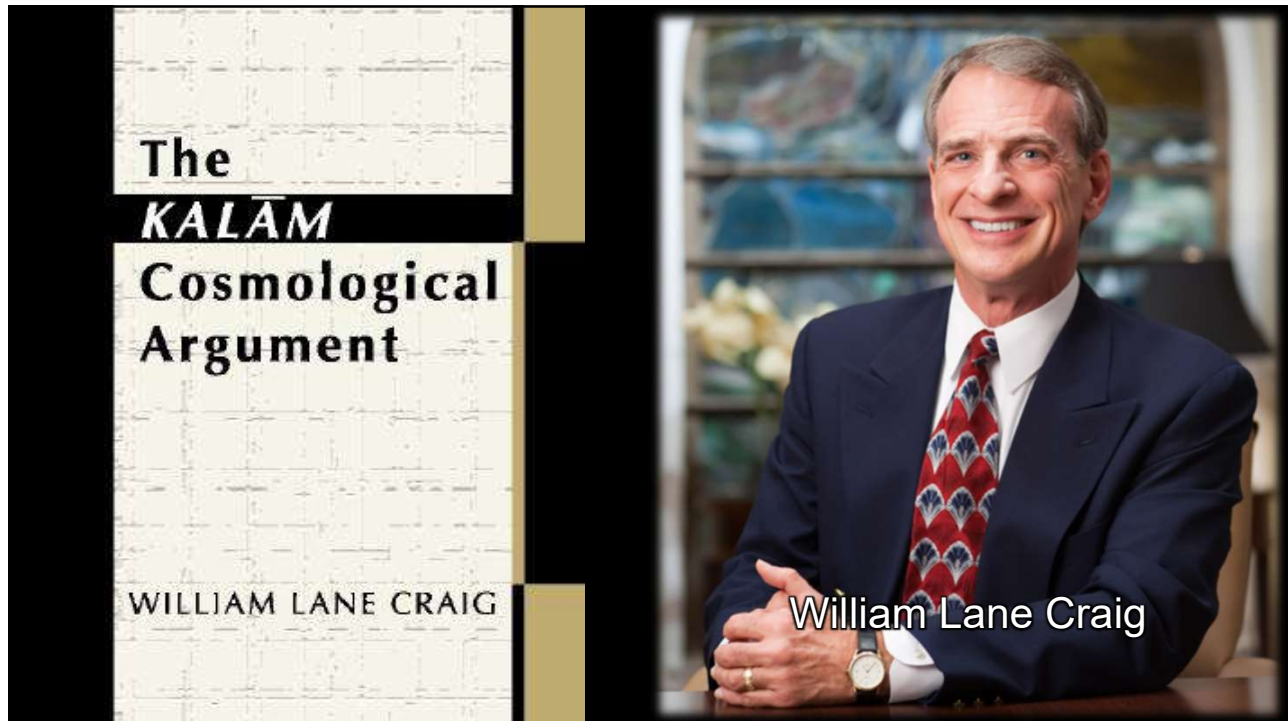
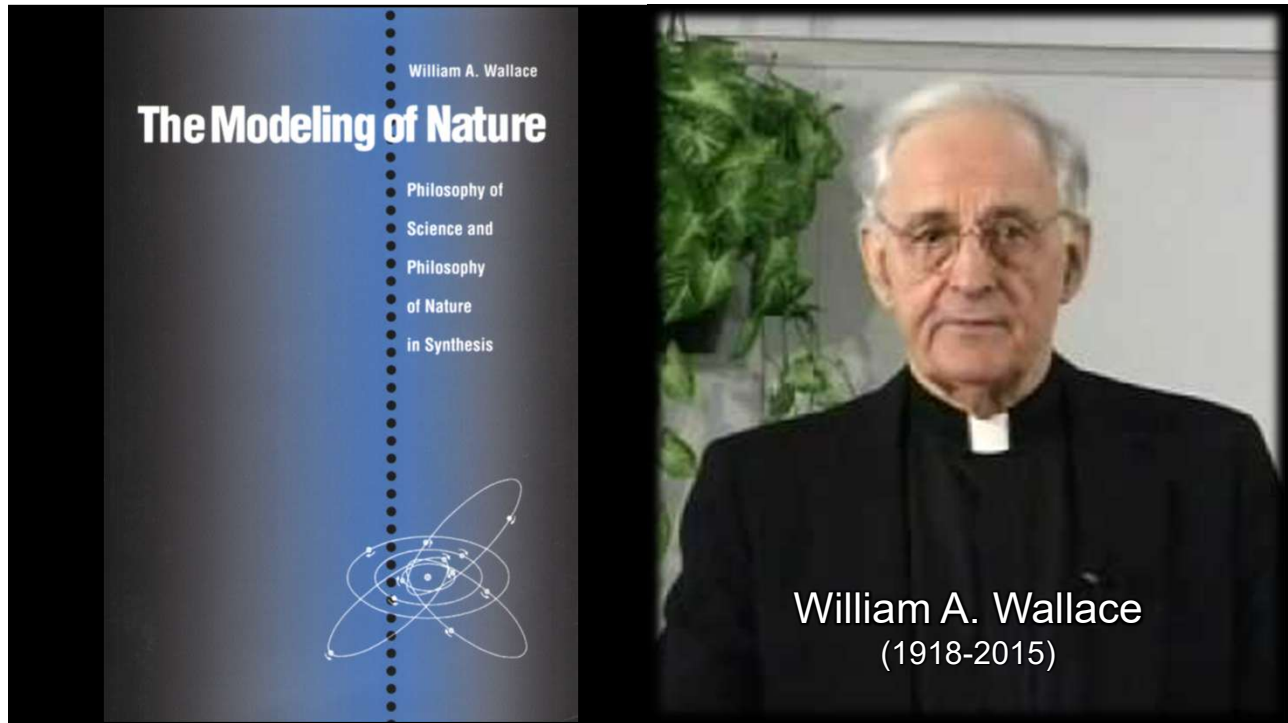


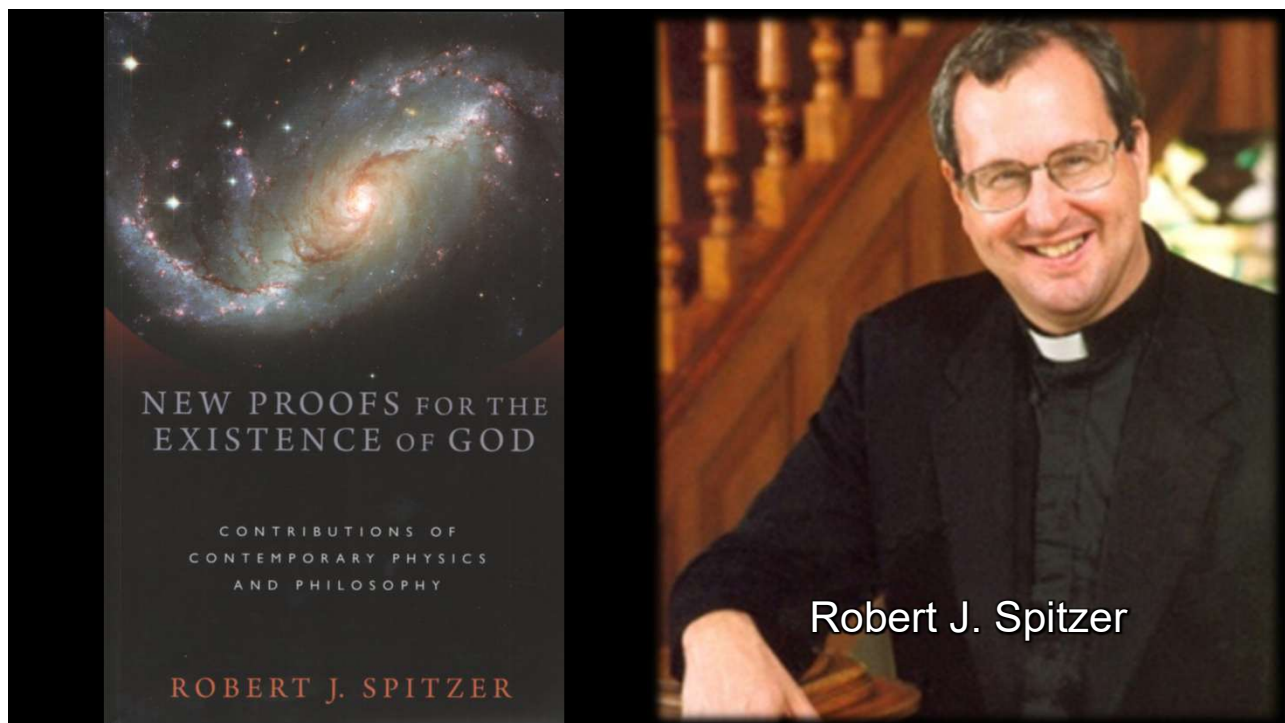
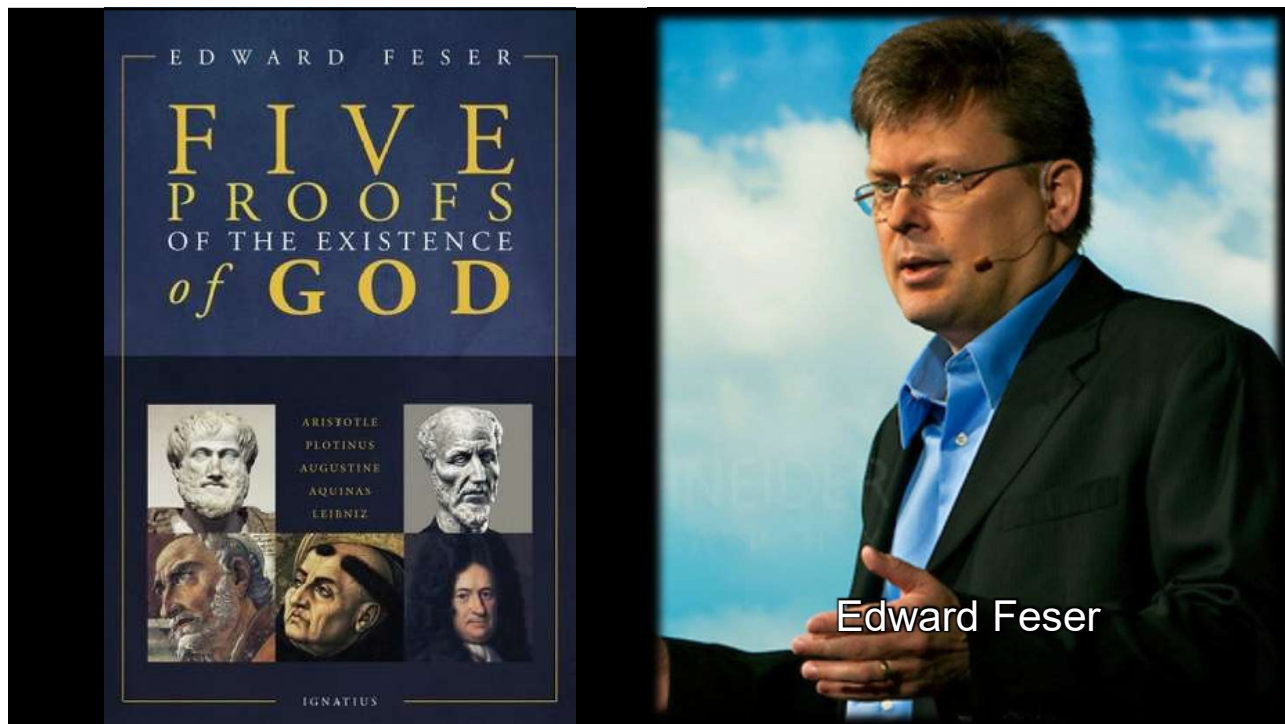
Michael J. Crowe

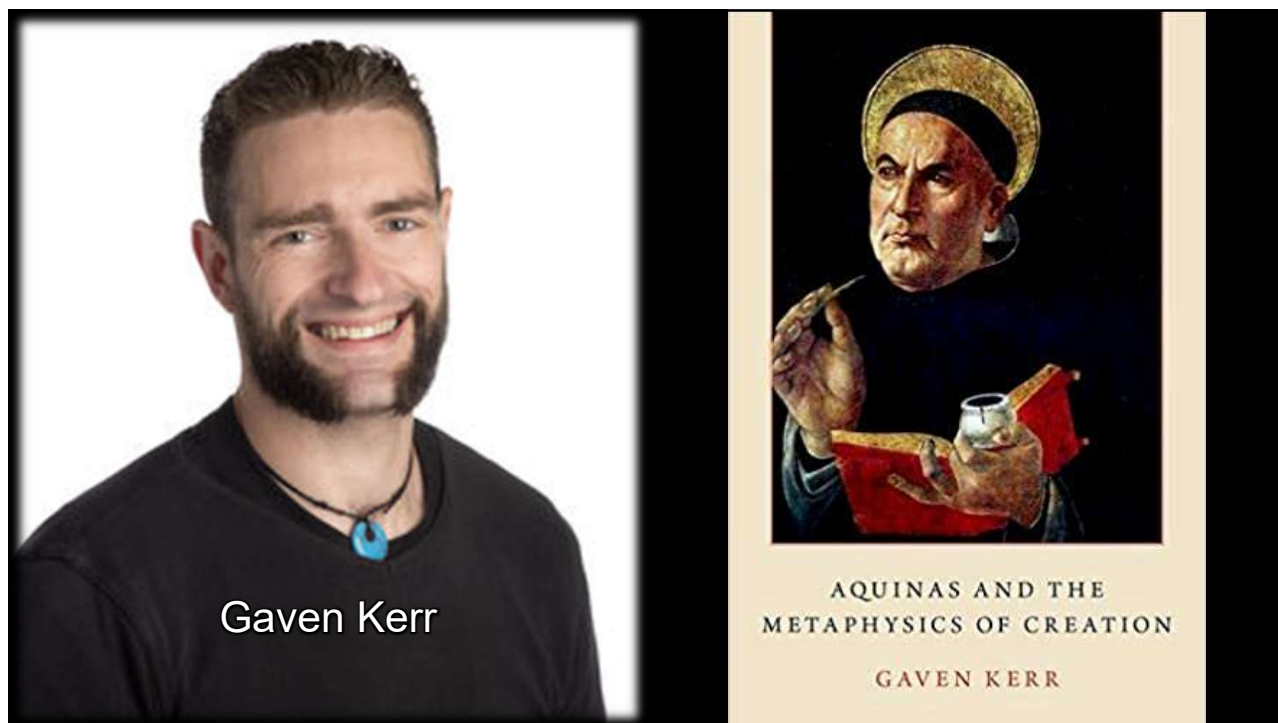









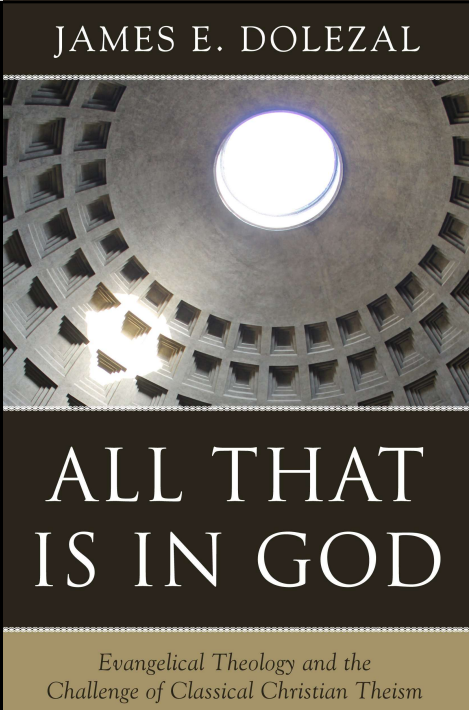






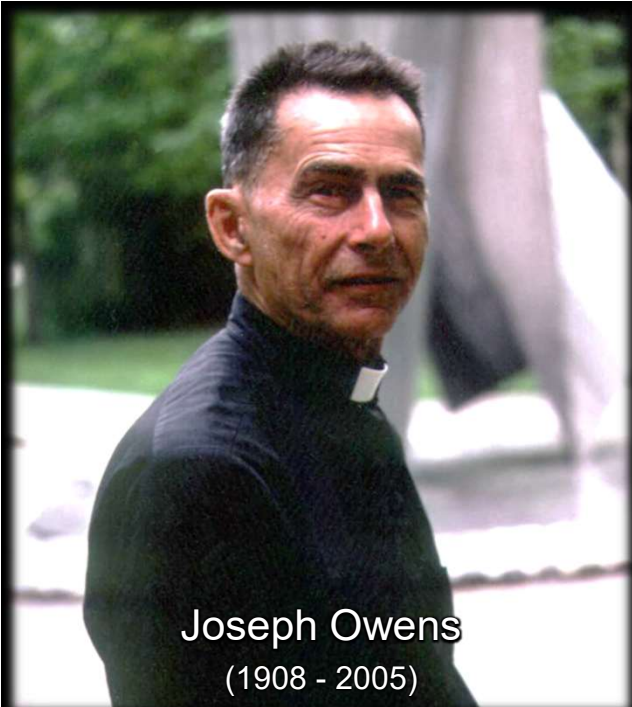
James E. Dolezal

JAMES E. DOLEZAL

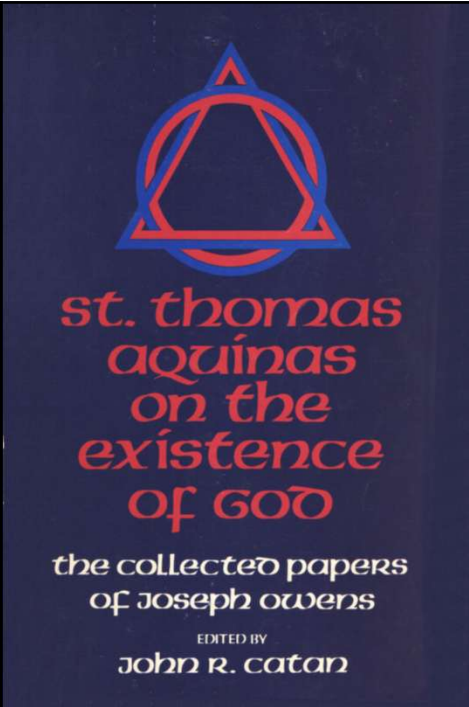



ALL THAT IS IN GOD

Evangelical Theology and the Challenge of Classical Christian Theism



Joseph Owens
(1908 - 2005)





st. thomas aquinas on the existence of GOD

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EDITED BY JOHN R. CATAN

