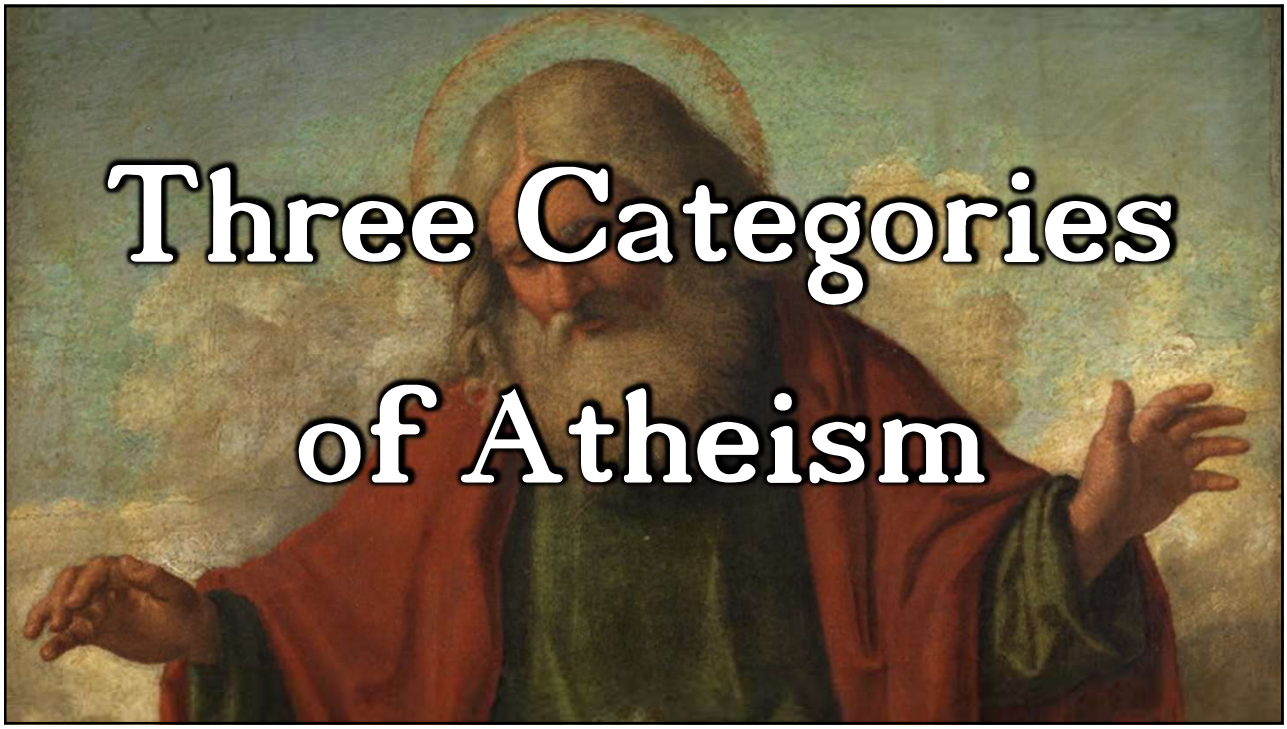
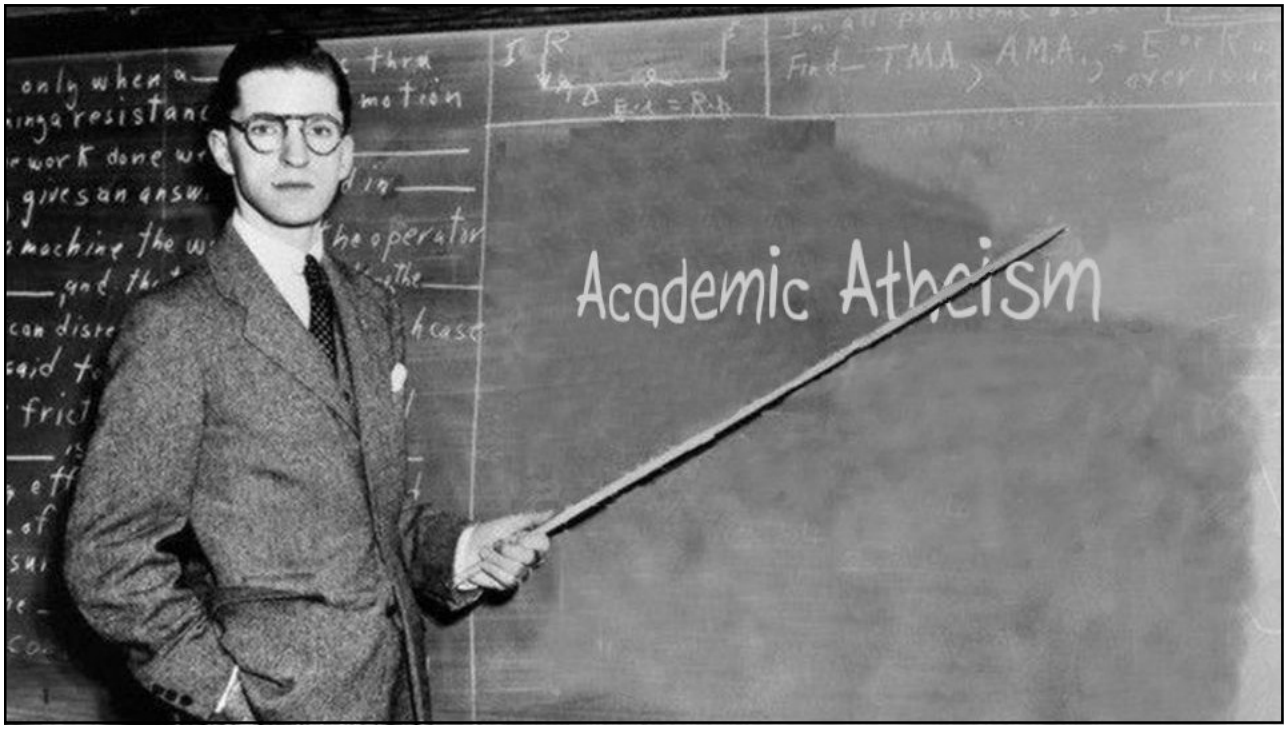

Popular
Atheism


Pt. 3:
Scientific
Arguments


Three Categories
of Atheism

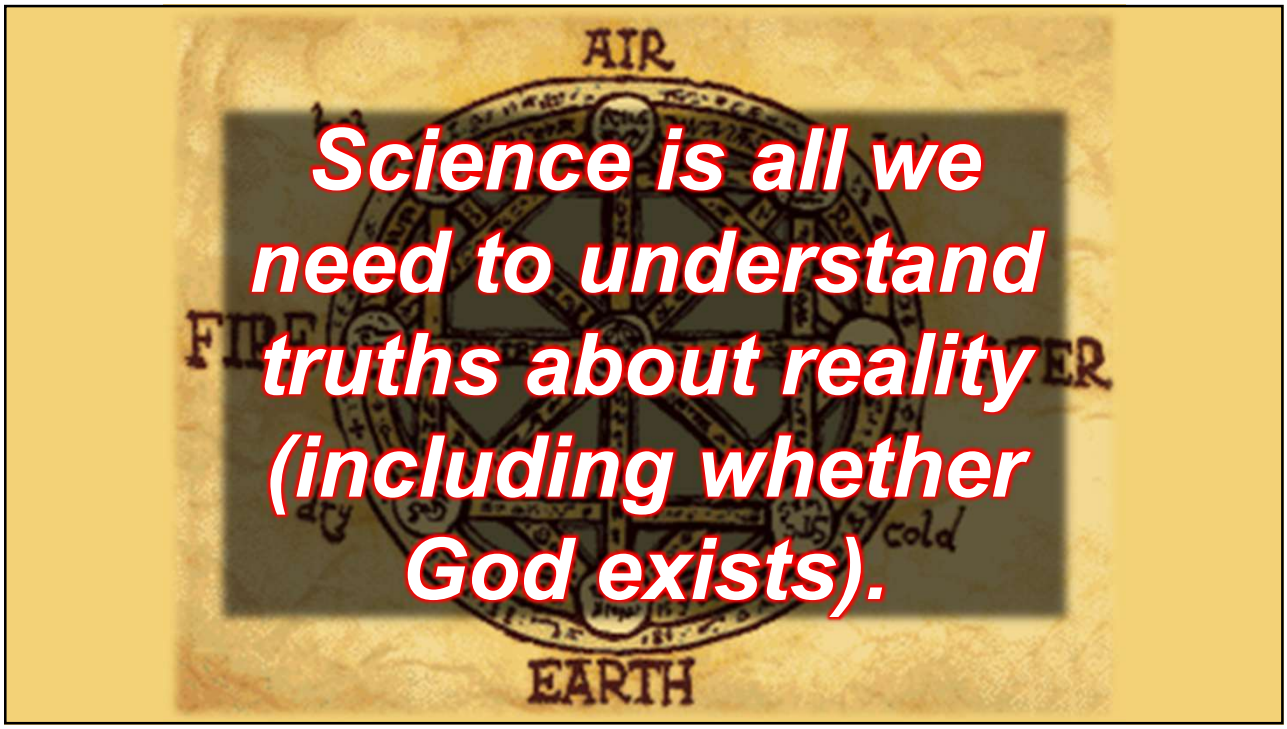

Academic Atheism


The "New" Atheism
Richard Dawkins
Sam Harris
Daniel Dennett
Christopher Hitchens


The "New" Atheism

Popular Atheism

Argument


AIR
EARTH
Cold
Science is all we need to understand truths about reality (including whether God exists).

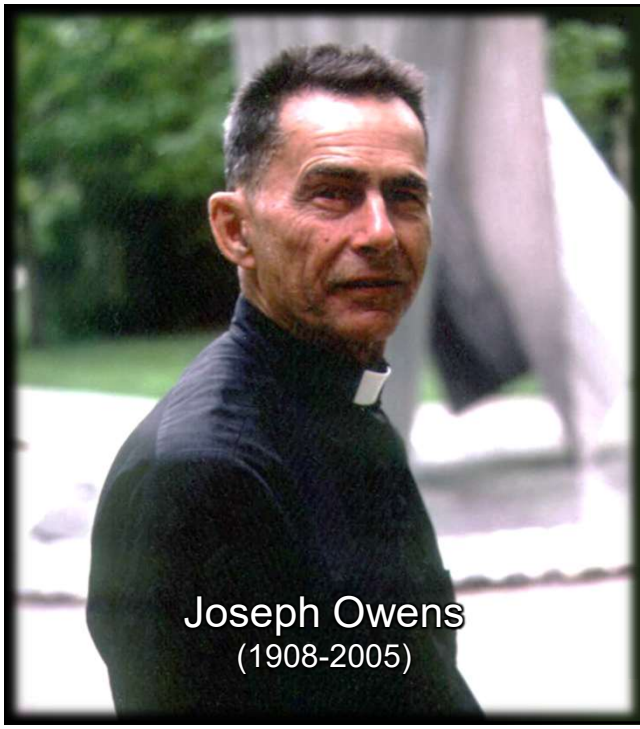

ATHEISTS
IN SCIENCE WE TRUST

Uses of the Term 'Science'

science

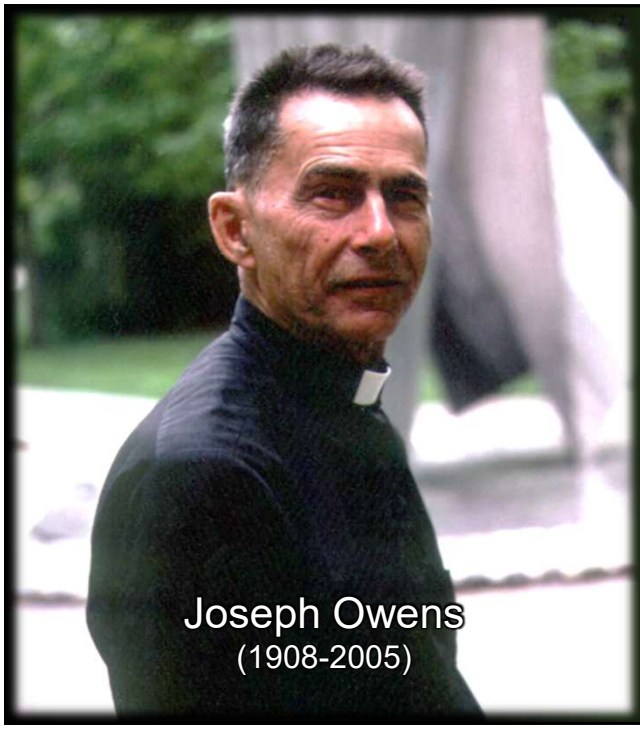
ancient and medieval use of the term

Here 'science' is any area of study and body of knowledge whose truths can be reduced to the first principles of that area.



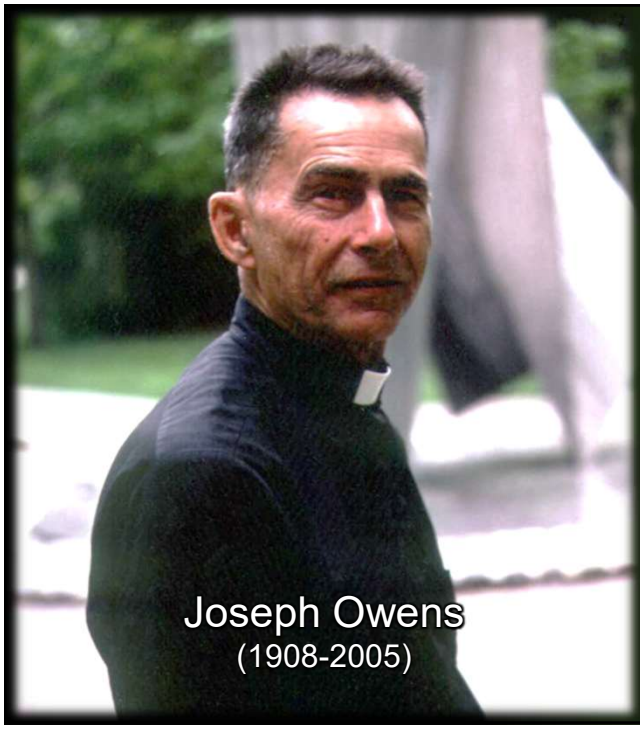
Joseph Owens
(1908-2005)

"In this tradition [that goes back to Plato and Aristotle], 'science' has a much wider and richer meaning than it has in the popular understanding of the word today. It means knowledge of a thing in light of its causes. It extends to any kind of explanation of things through the causes that account for their nature, their origin, and their function,



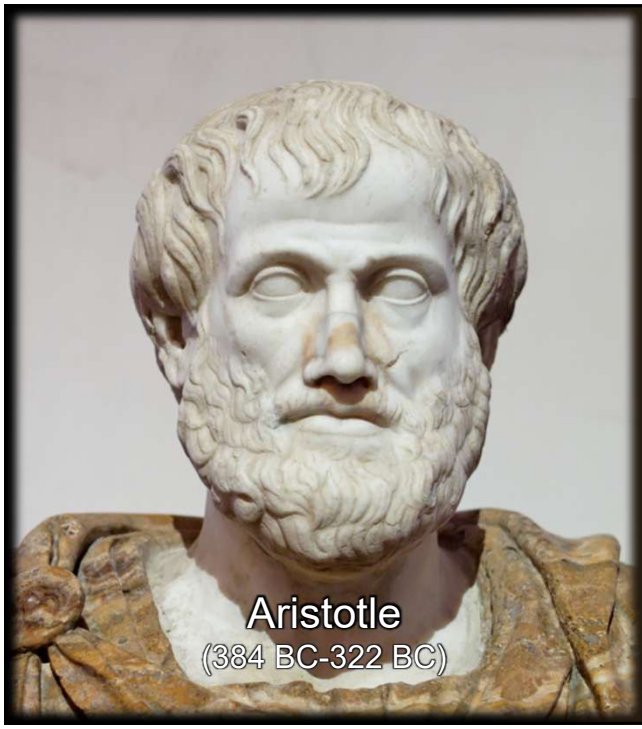
"whether the causes are in the sensible or the supersensible realm. In this tradition 'science' or 'scientific knowledge' includes mathematics, philosophy of nature, metaphysics, logic, and ethics, as well as the experimental sciences. …"

[Joseph Owens, "The 'Analytics' and Thomistic Metaphysical Procedure," *Mediaeval Studies* 26 (1964): 83-108 (87-88)]



"This traditional [i.e., ancient and medieval] use of the word "science" is still alive today, in spite of the way in which the term has been appropriated to the experimental sciences in popular use."

[Joseph Owens, "The 'Analytics' and Thomistic Metaphysical Procedure," *Mediaeval Studies* 26 (1964): 83-108 (87-88)]

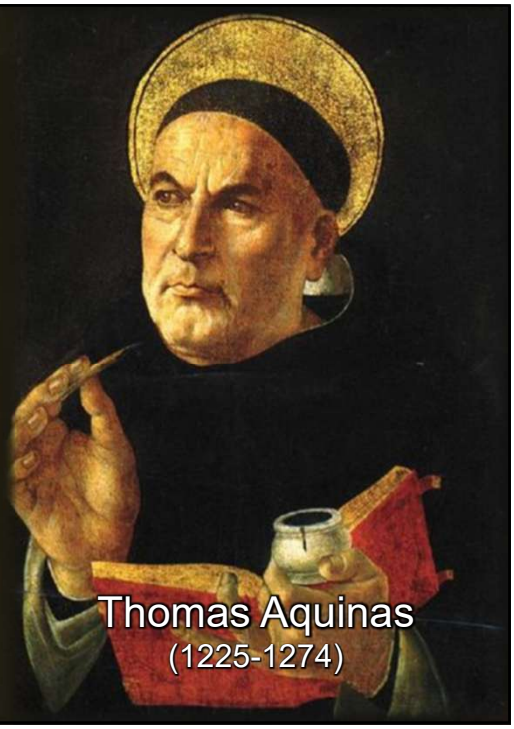


"And the most exact of the sciences [ἐπιστημῶν; epistēmōn] are those which deal most with first principles."

[Aristotle, The Metaphysics, trans. W. D. Ross in Richard McKeon, ed. *The Basic Works of Aristotle*, (New York: Random House, 1941), 691]

"Sacred doctrine is a science [*scientiam*]. We must bear in mind that there are two kinds of sciences. There are some which proceed from a principle known by the natural light of the intelligence, such as arithmetic … There are some which proceed from the principles known by the light of a higher science. … So it is that sacred doctrine is a science, because it proceeds from the principles established by the light of a higher science, namely, the science of God and the blessed."

[*Summa Theologiae* I, Q.1, art. 2]



science

ancient and medieval use of the term

In this regard, not only would areas like physics be regarded as a science but also metaphysics and theology.

science

contemporary use of the term

In contemporary usage, the term 'science' has become difficult to define to everyone's satisfaction.

science

contemporary use of the term

But one relatively uncontroversial aspect of definition of science is that it is confined to the study of the physical or material world and the forces which govern it.

science

contemporary use of the term

In this regard, while physics would be considered a science, metaphysics and theology would not.

science

contemporary use of the term

The issue before us is whether there is any aspect of reality that is beyond the physical or material world and is thus beyond science in the contemporary sense of the term.

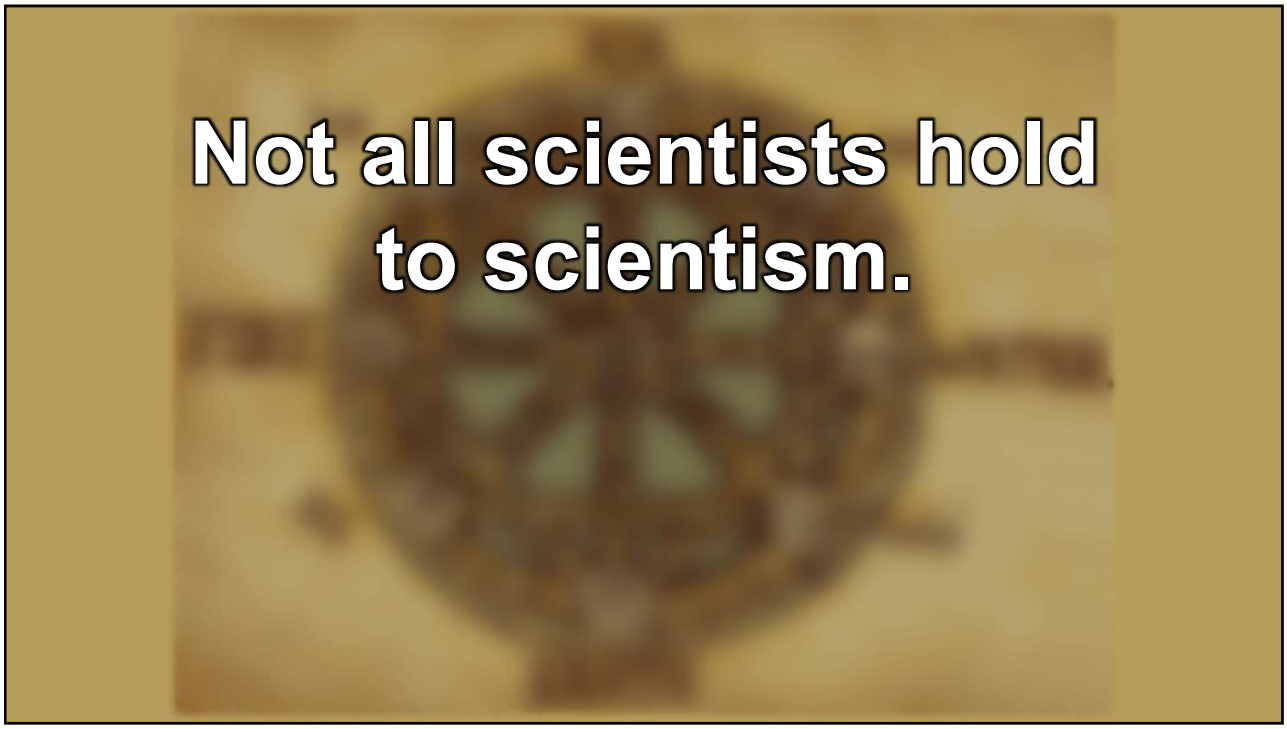
Science by any other name …

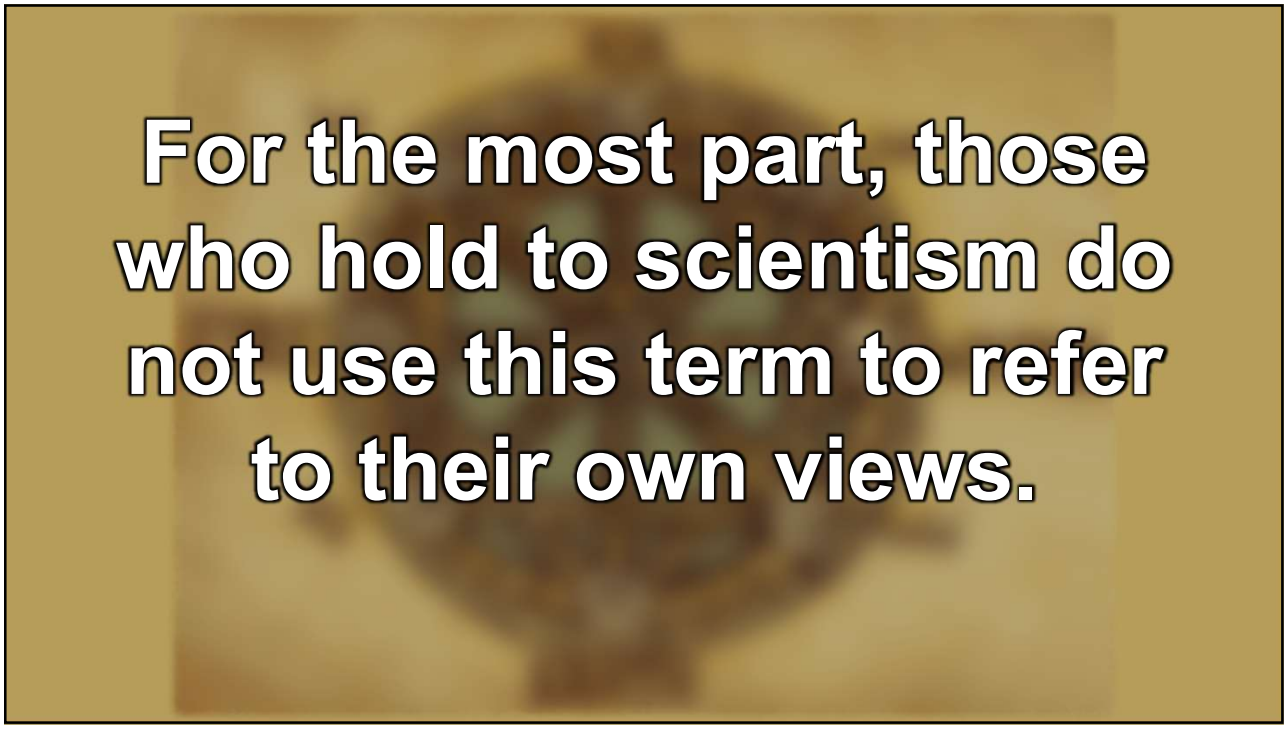
Some scientists insist that that science and its methods are the only way to discover or measure truths about reality.

They maintain that miracles and the supernatural fall outside the scope of the "scientific method."

In effect, this amounts to saying that that miracles and the supernatural are not real.

This view of science is sometimes referred to as "**scientism**".


Not all scientists hold
to scientism.

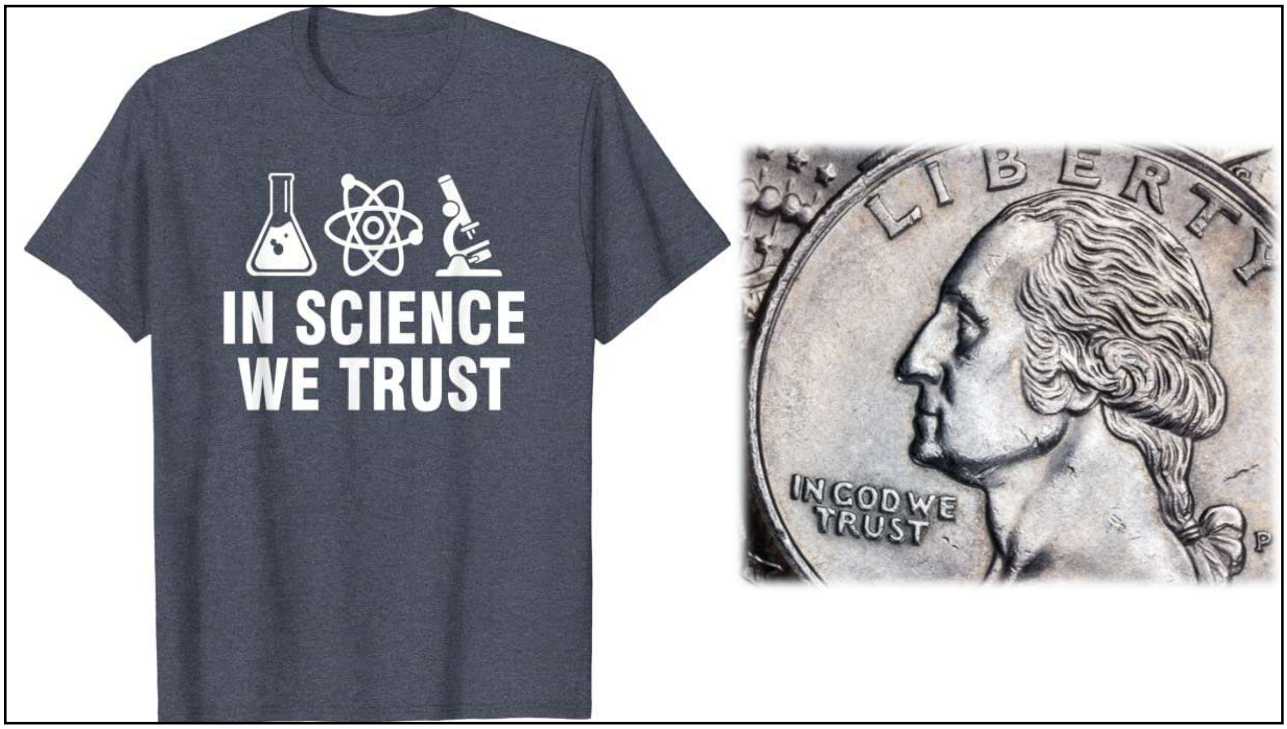

For the most part, those
who hold to scientism do
not use this term to refer
to their own views.

It originated more or less as a pejorative term used by critics of the view.

It would seem, however, to be no less an appropriate label of the view.


SCIENCE
IS MY
RELIGION


IN SCIENCE
WE TRUST


IN SCIENCE
WE TRUST
LIBERTY
IN GOD WE
TRUST


Science
Never
Sleeps

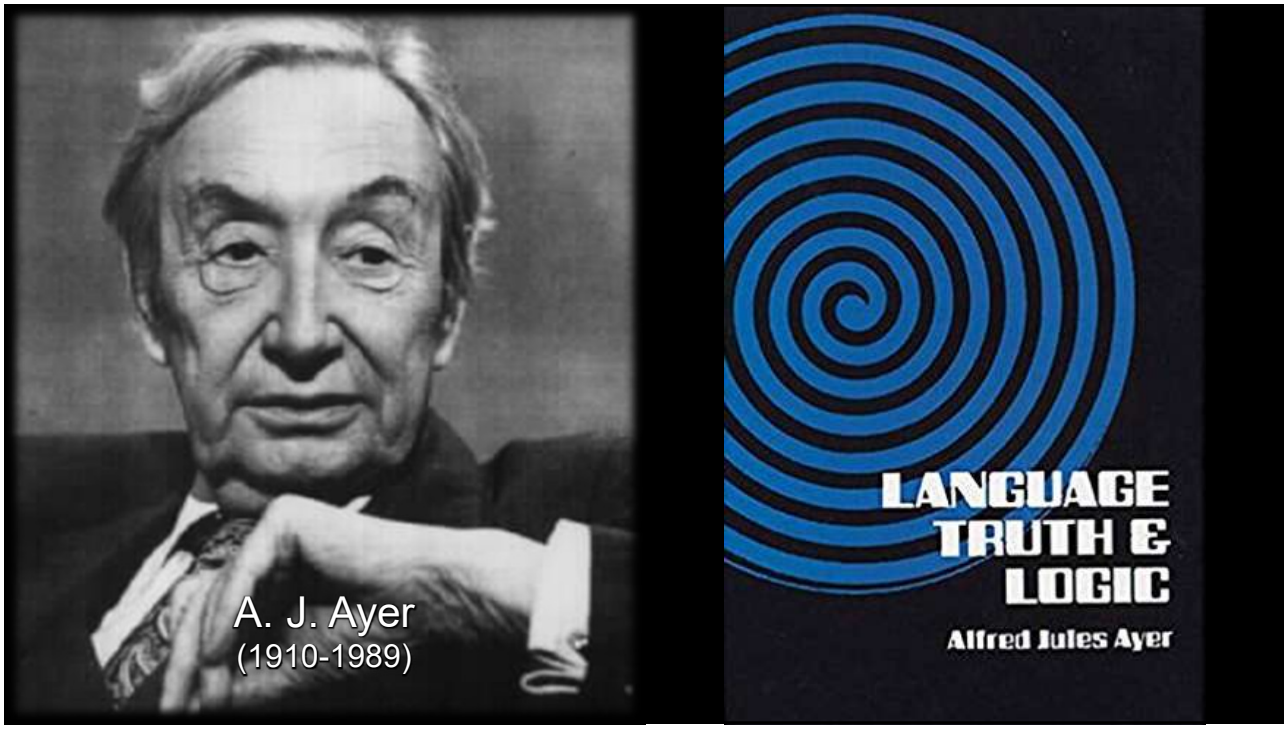
Ps. 121:4

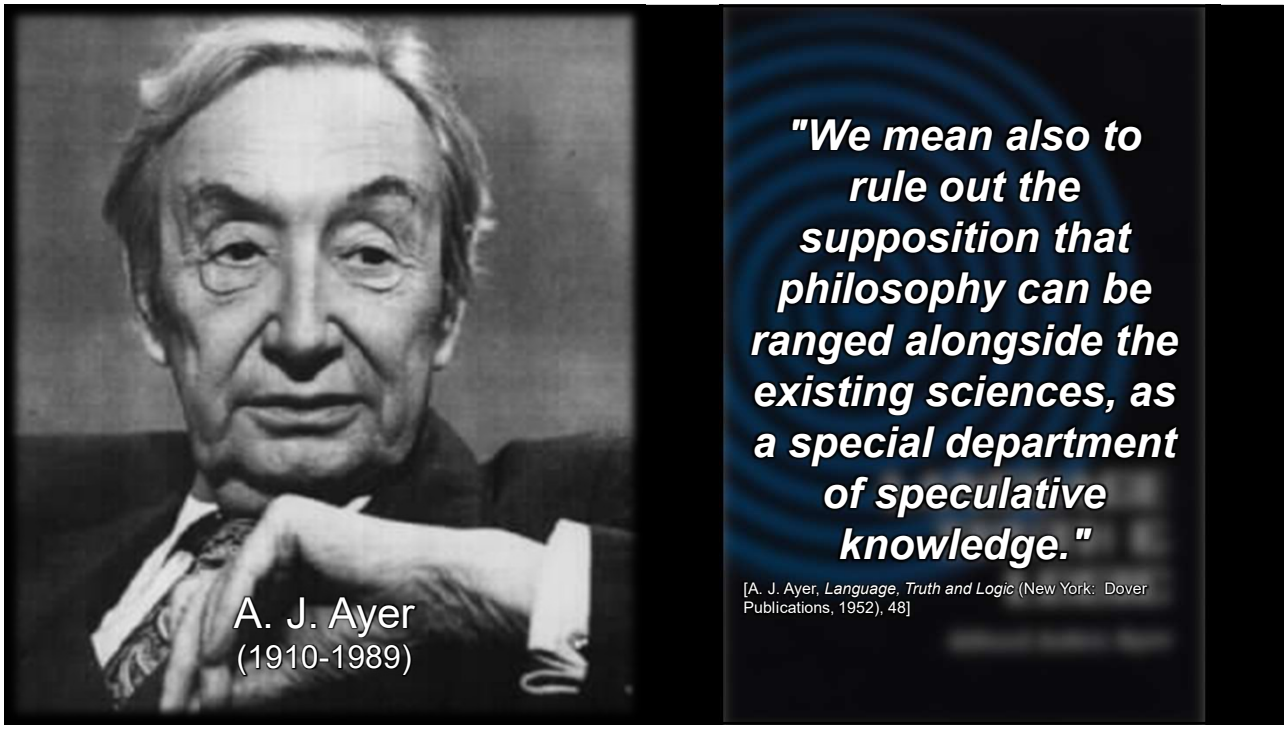
Behold, He who keeps Israel Shall neither slumber nor sleep.

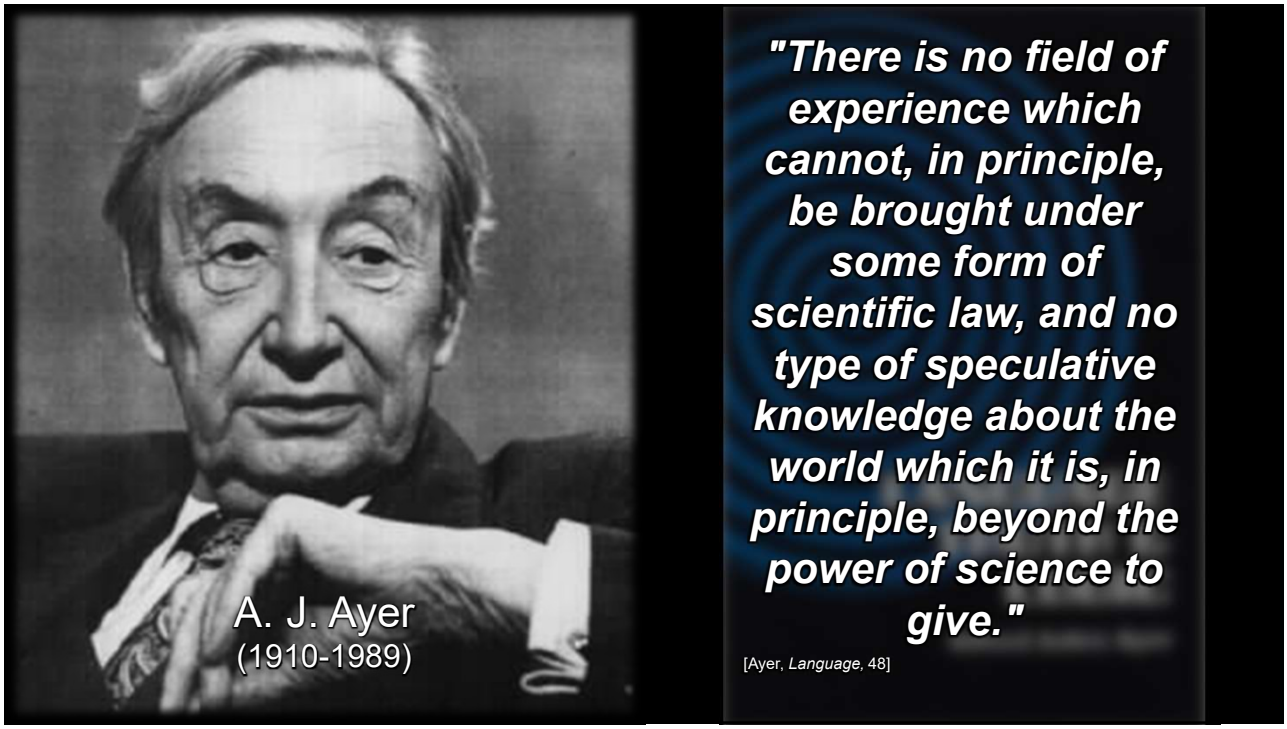

DARWIN
LOVES
YOU

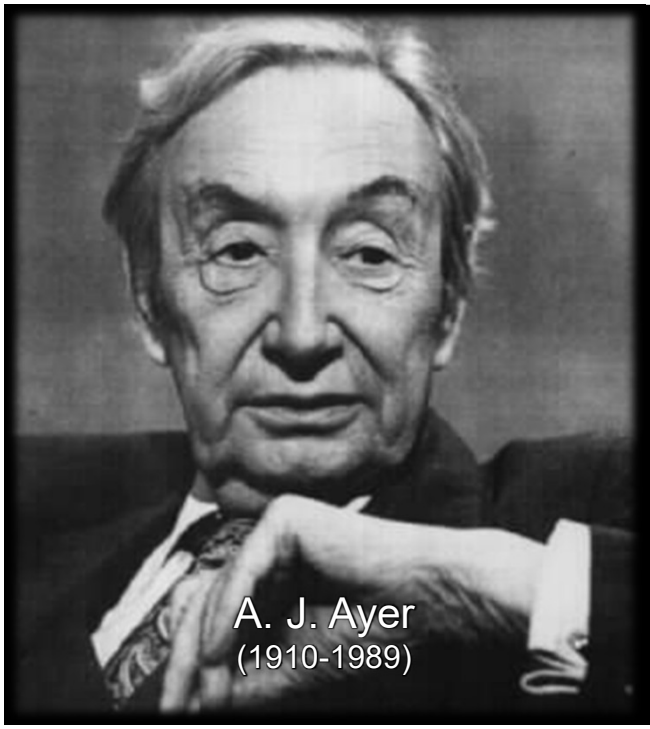

Too Stupid for
SCIENCE ?
WELL. THERE IS ALWAYS
RELIGION

Scientism in Action: Philosophers



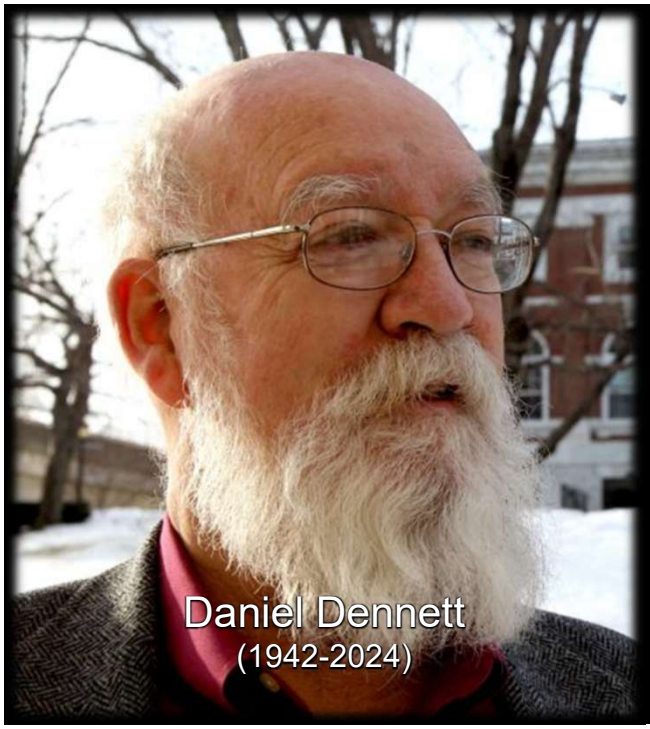

A. J. Ayer
(1910-1989)
"We mean also to rule out the supposition that philosophy can be ranged alongside the existing sciences, as a special department of speculative knowledge."
[A. J. Ayer, *Language, Truth and Logic* (New York: Dover Publications, 1952), 48]

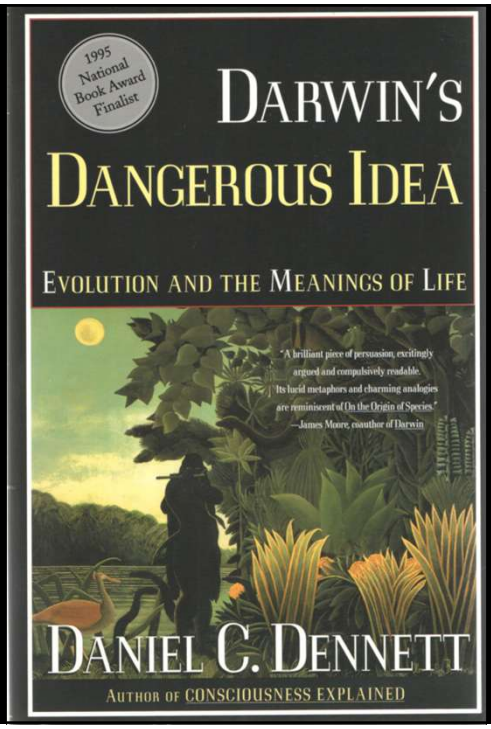

A. J. Ayer
(1910-1989)
"There is no field of experience which cannot, in principle, be brought under some form of scientific law, and no type of speculative knowledge about the world which it is, in principle, beyond the power of science to give."
[Ayer, *Language*, 48]

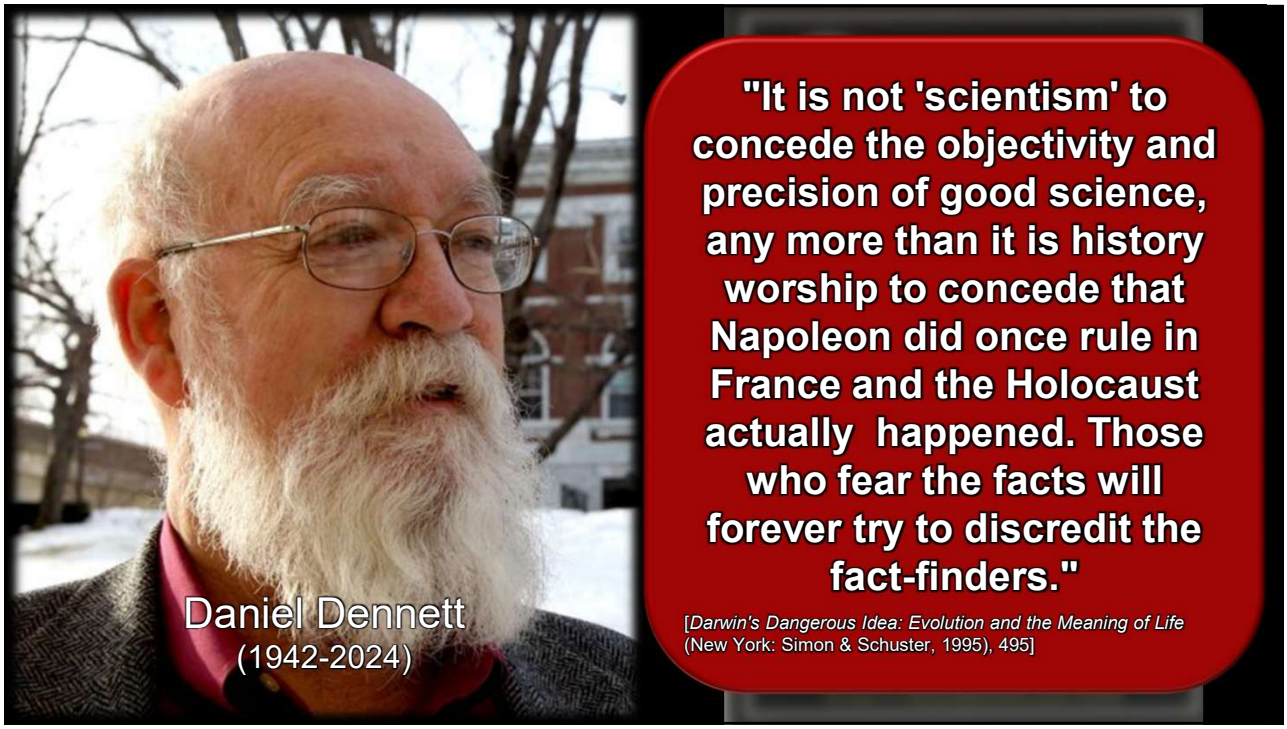


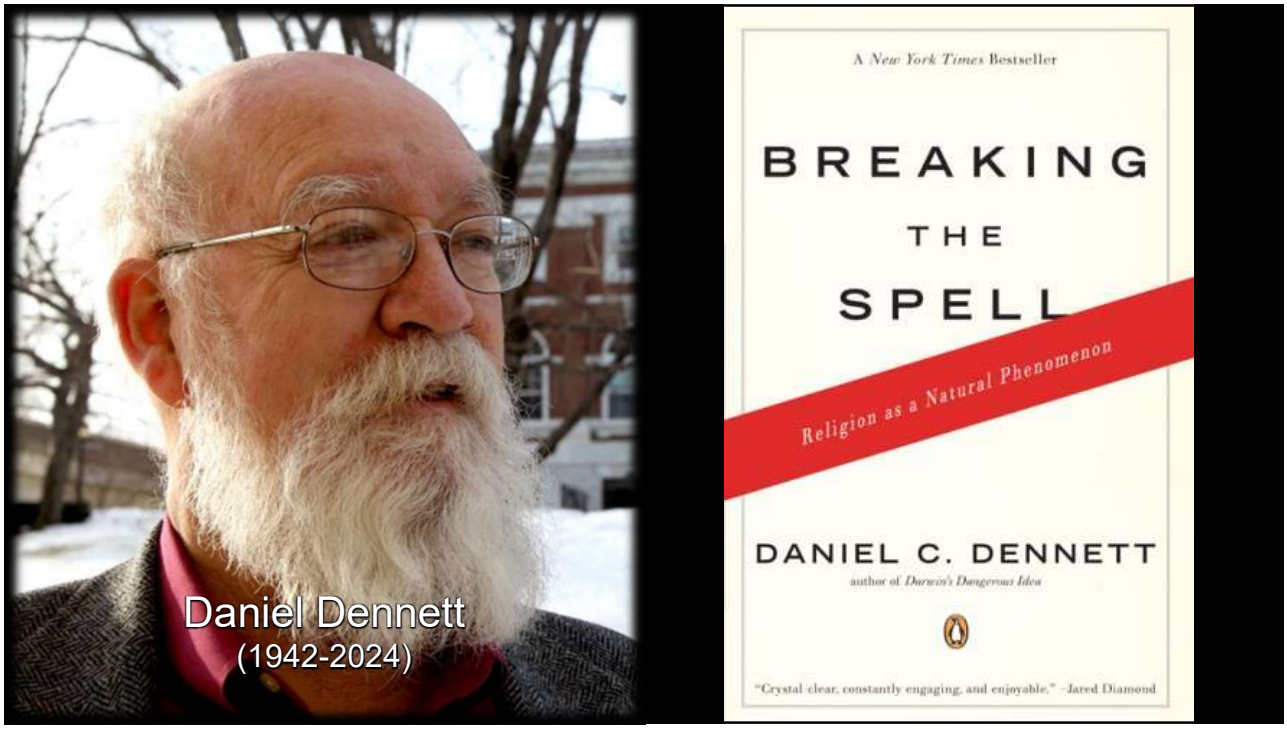
"The philosopher, as an analyst, is not directly concerned with the physical properties of things. **He is concerned only with the way in which we speak about them.** In other words, **the propositions of philosophy are not factual, but linguistic** in character."

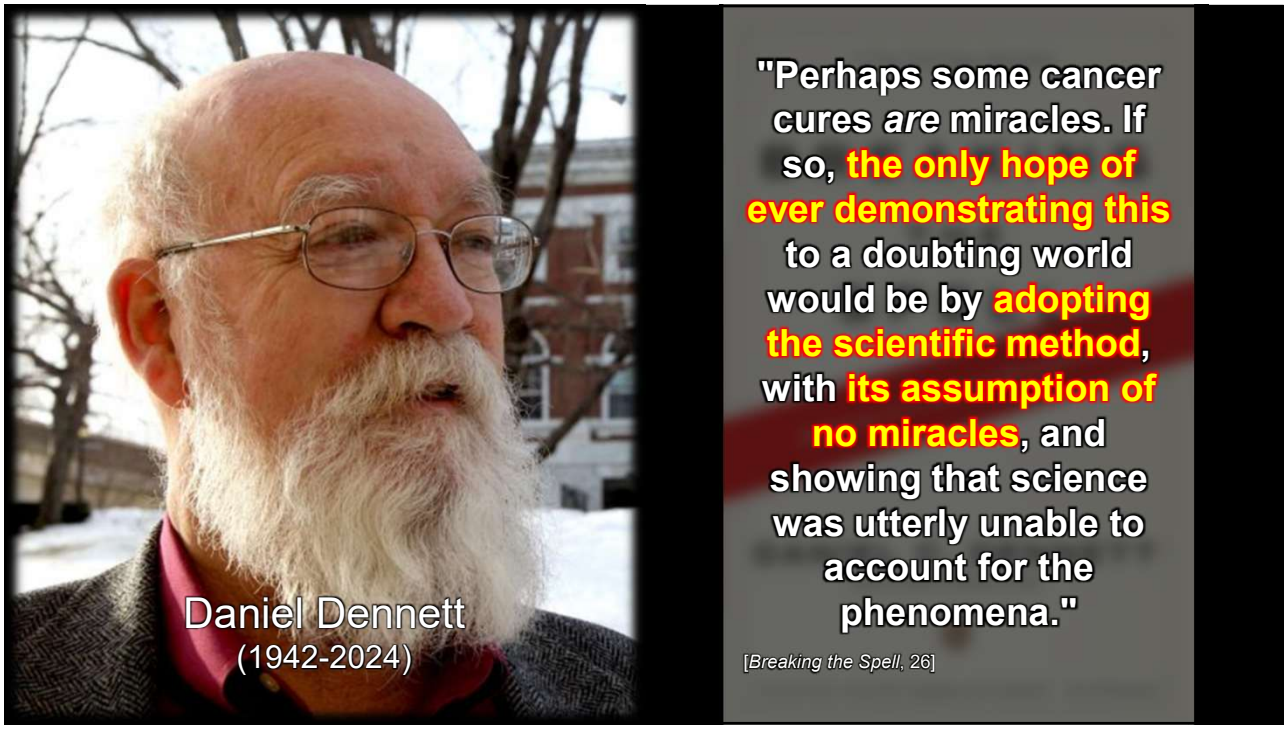
[Ayer, *Language*, 57]

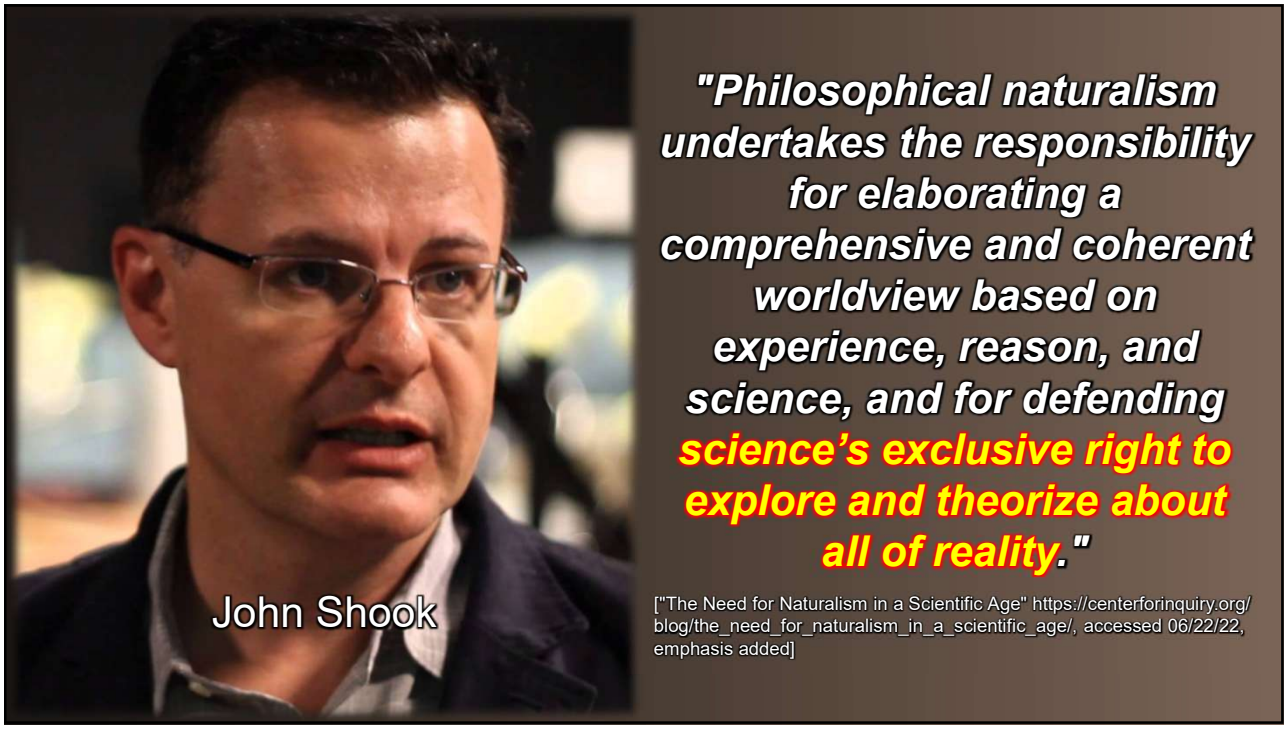




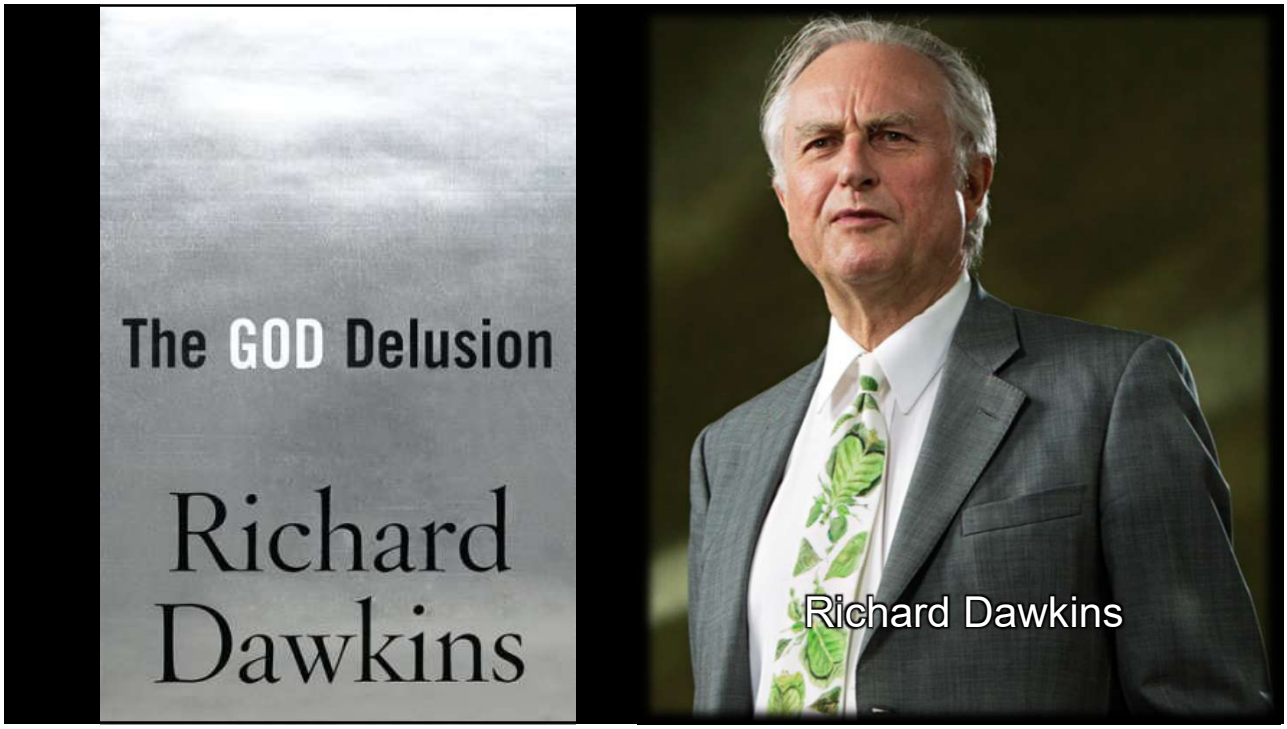

Daniel Dennett
(1942-2024)
"It is not 'scientism' to concede the objectivity and precision of good science, any more than it is history worship to concede that Napoleon did once rule in France and the Holocaust actually happened. Those who fear the facts will forever try to discredit the fact-finders."
[*Darwin's Dangerous Idea: Evolution and the Meaning of Life* (New York: Simon & Schuster, 1995), 495]


Daniel Dennett
(1942-2024)
A *New York Times* Bestseller
BREAKING
THE
SPELL
Religion as a Natural Phenomenon
DANIEL C. DENNETT
author of *Darwin's Dangerous Idea*
"Crystal clear, constantly engaging, and enjoyable." –Jared Diamond


Daniel Dennett
(1942-2024)
"Perhaps some cancer cures *are* miracles. If so, **the only hope of ever demonstrating this** to a doubting world would be by **adopting the scientific method**, with **its assumption of no miracles**, and showing that science was utterly unable to account for the phenomena."
[*Breaking the Spell*, 26]

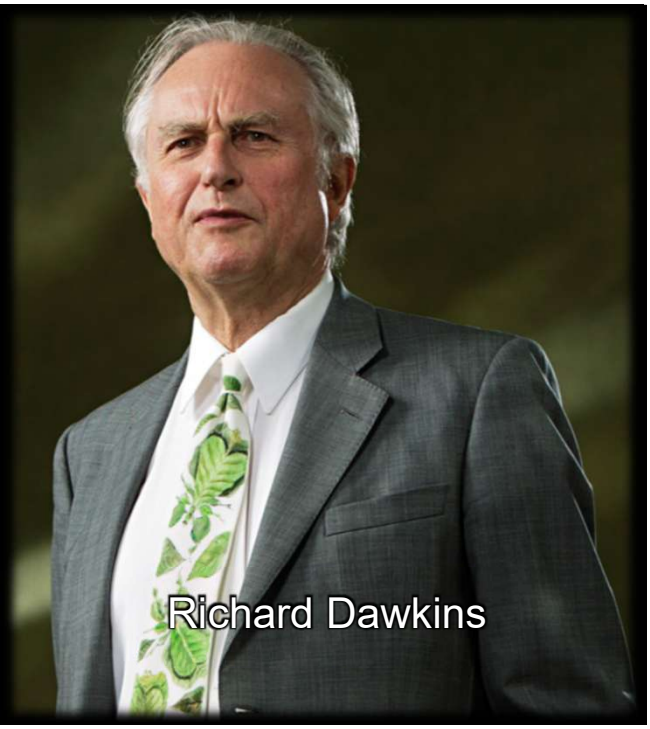

John Shook
"Philosophical naturalism undertakes the responsibility for elaborating a comprehensive and coherent worldview based on experience, reason, and science, and for defending science's exclusive right to explore and theorize about all of reality."
["The Need for Naturalism in a Scientific Age" https://centerforinquiry.org/blog/the_need_for_naturalism_in_a_scientific_age/, accessed 06/22/22, emphasis added]

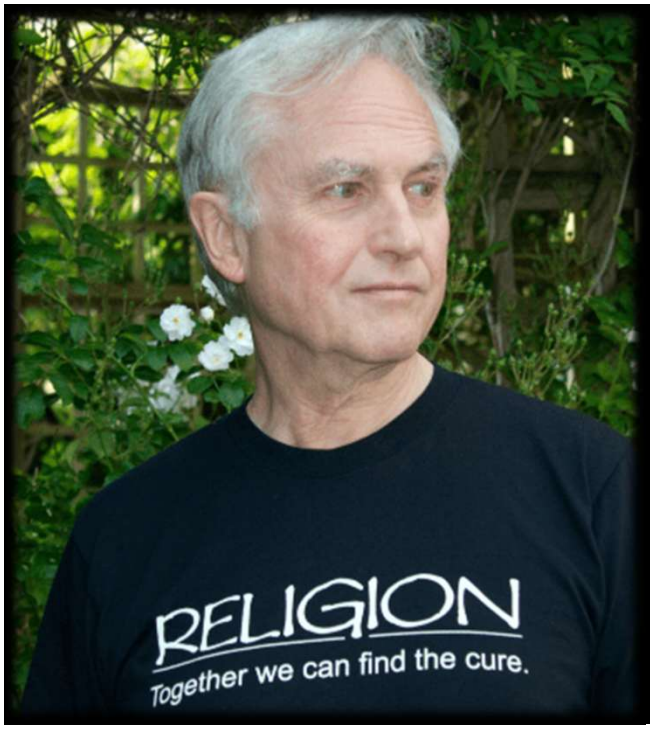
Scientism in Action: Scientists

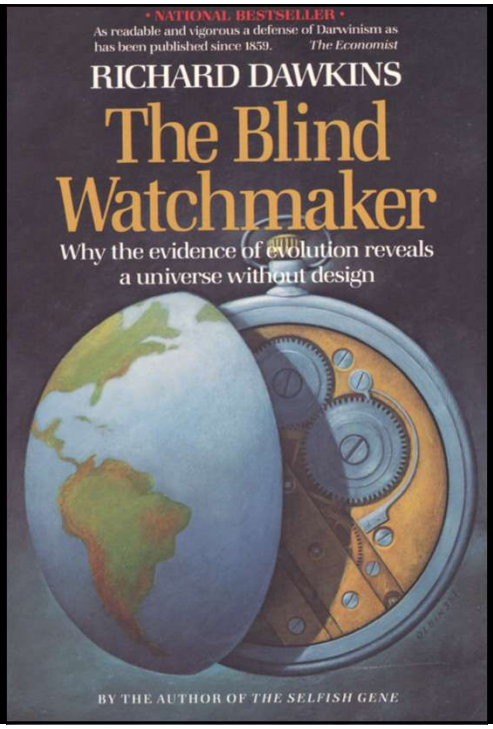


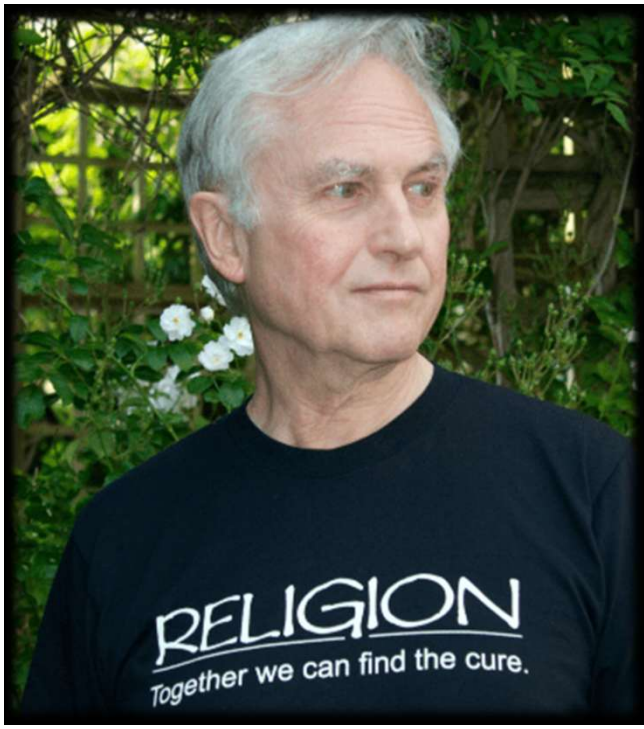
"The presence or absence of a creative super-intelligence is unequivocally a scientific question, even if it is not in practice—or not yet—a decided one."

[*The God Delusion* (Boston: Houghton Mifflin, 2006), 58-59]



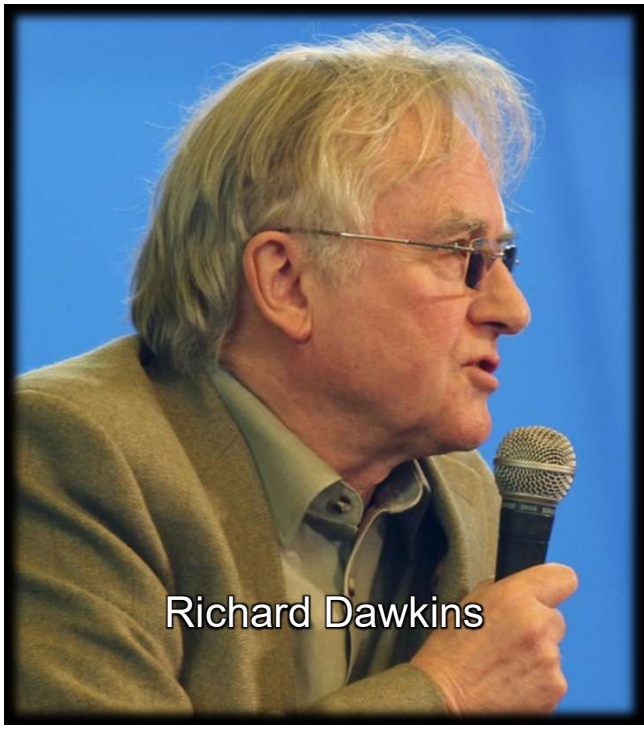


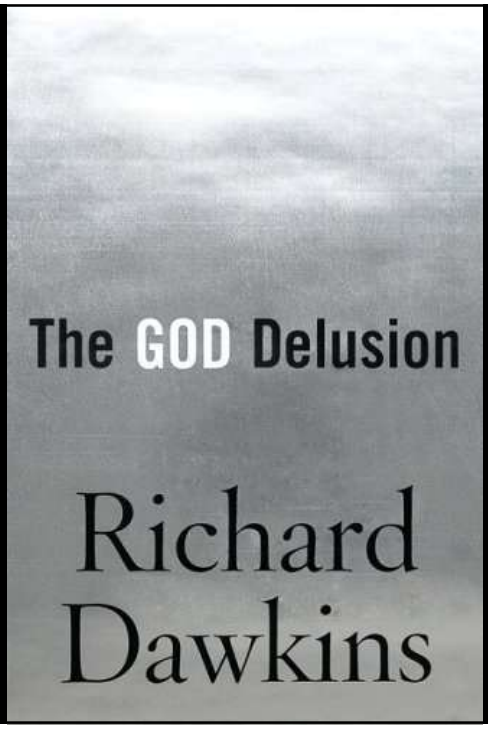


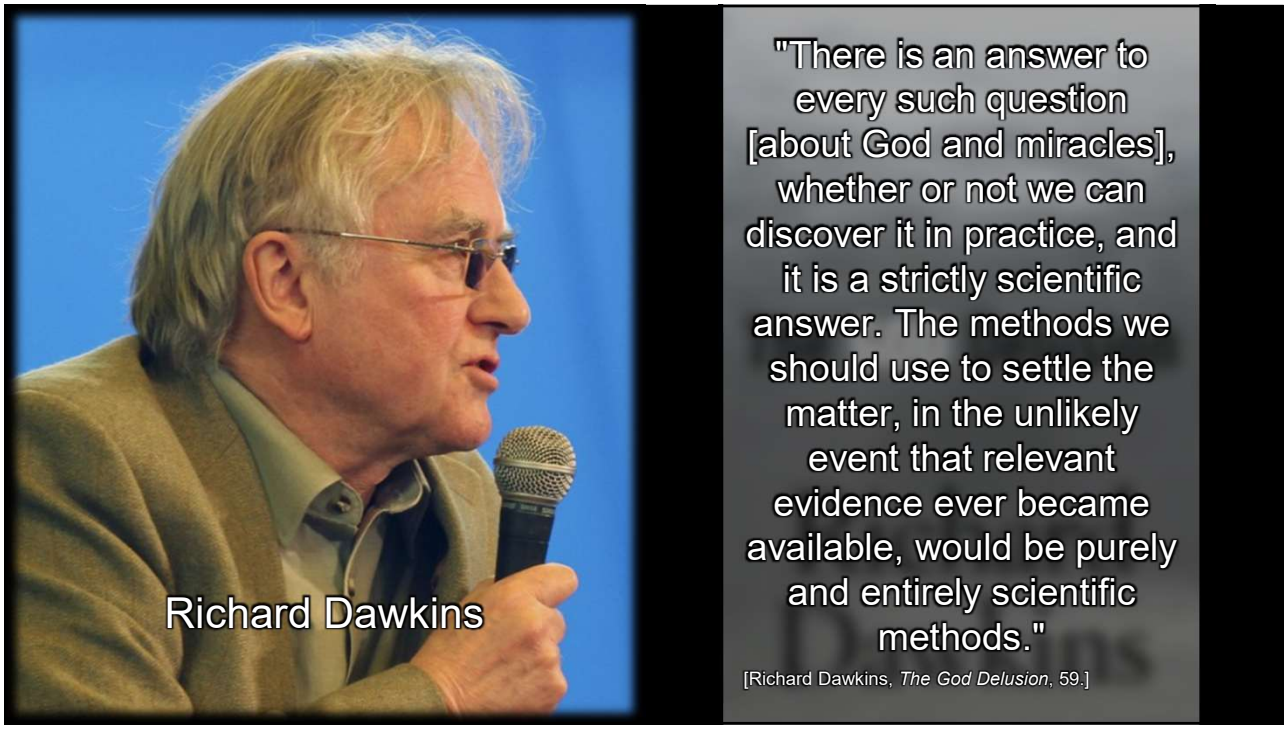


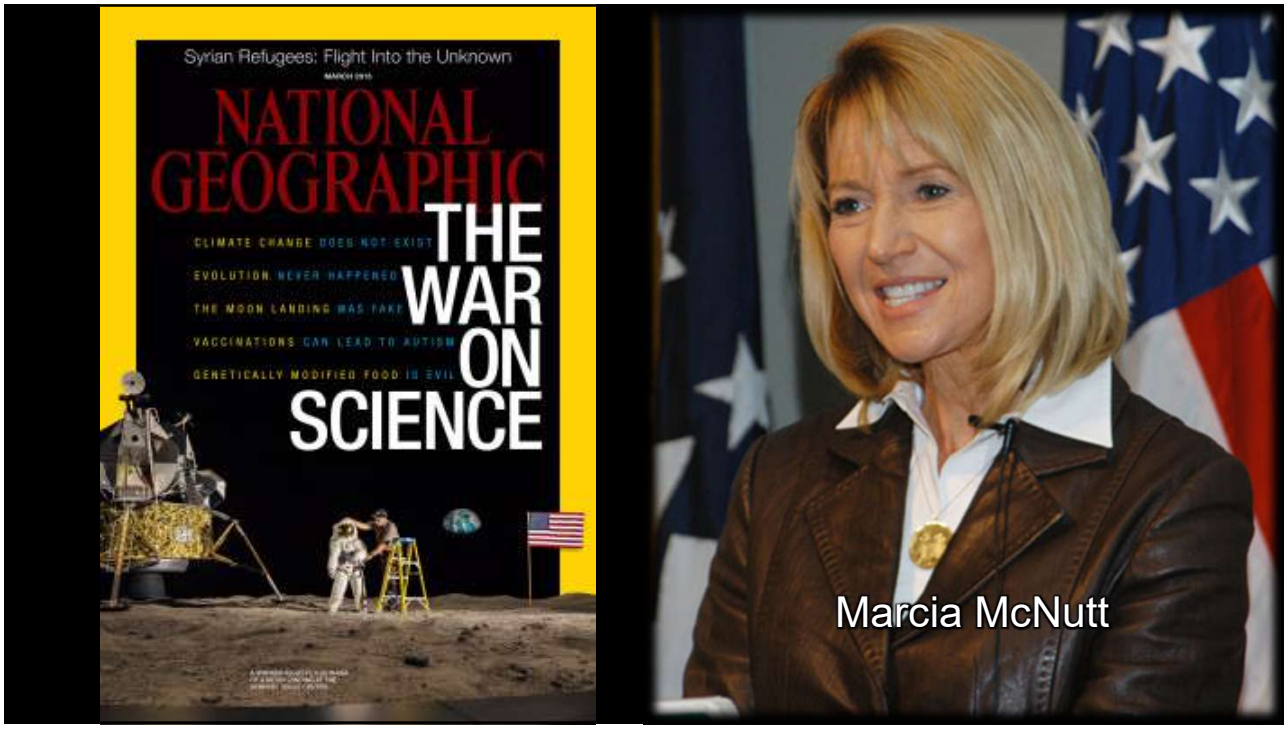
"Unlike some of his theological colleagues, Bishop Montefiore is not afraid to state that the question of whether God exists is a definite question of fact."

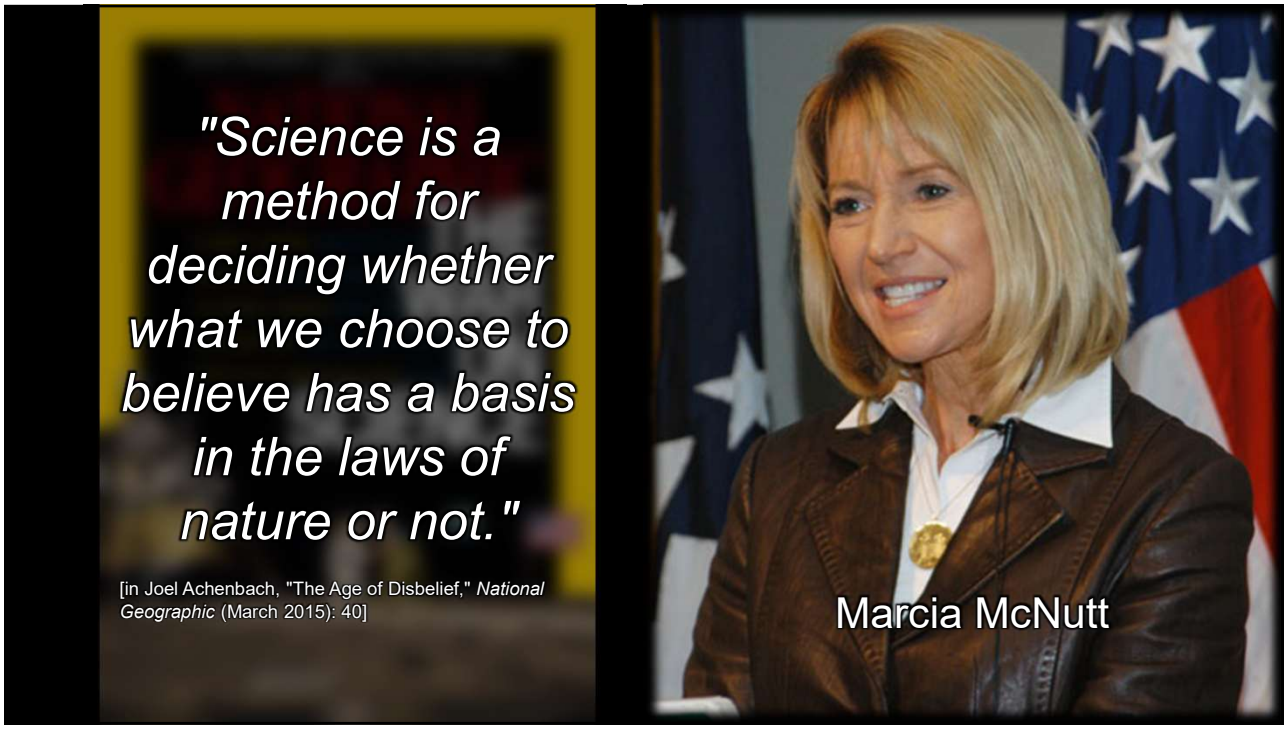
[*The Blind Watchmaker, 37-38*]

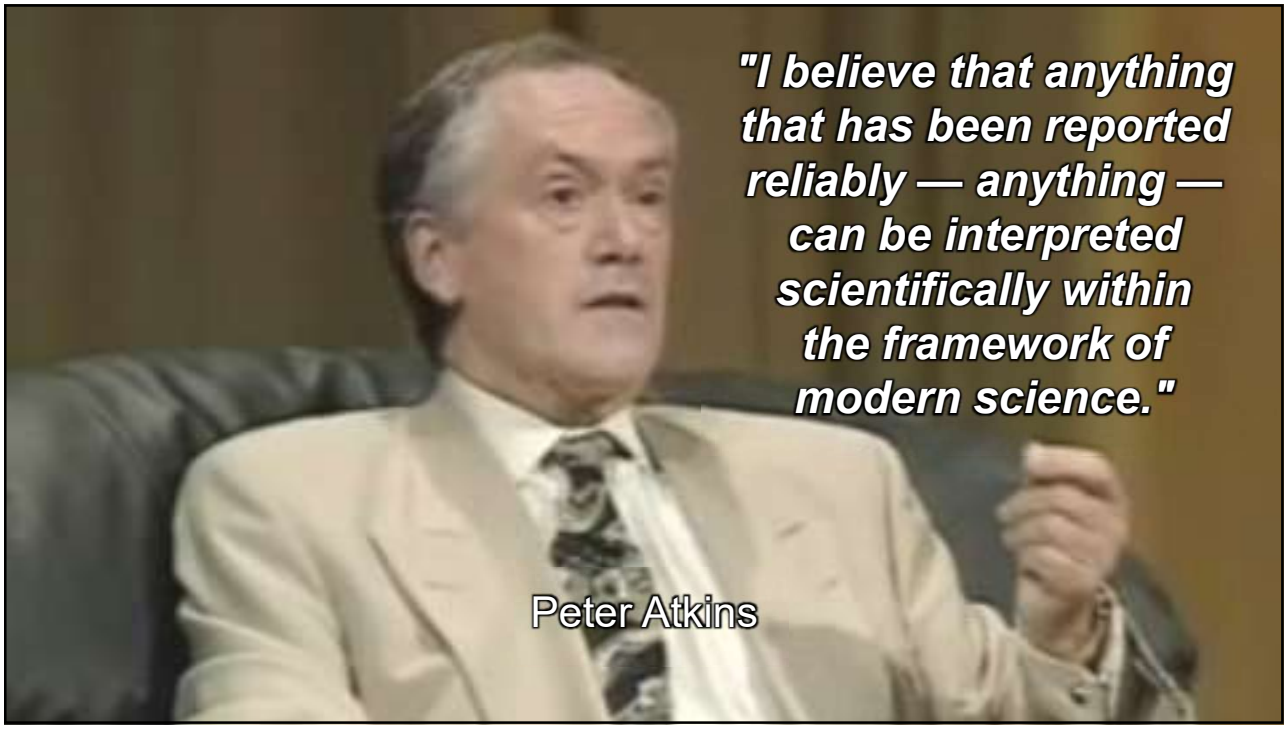


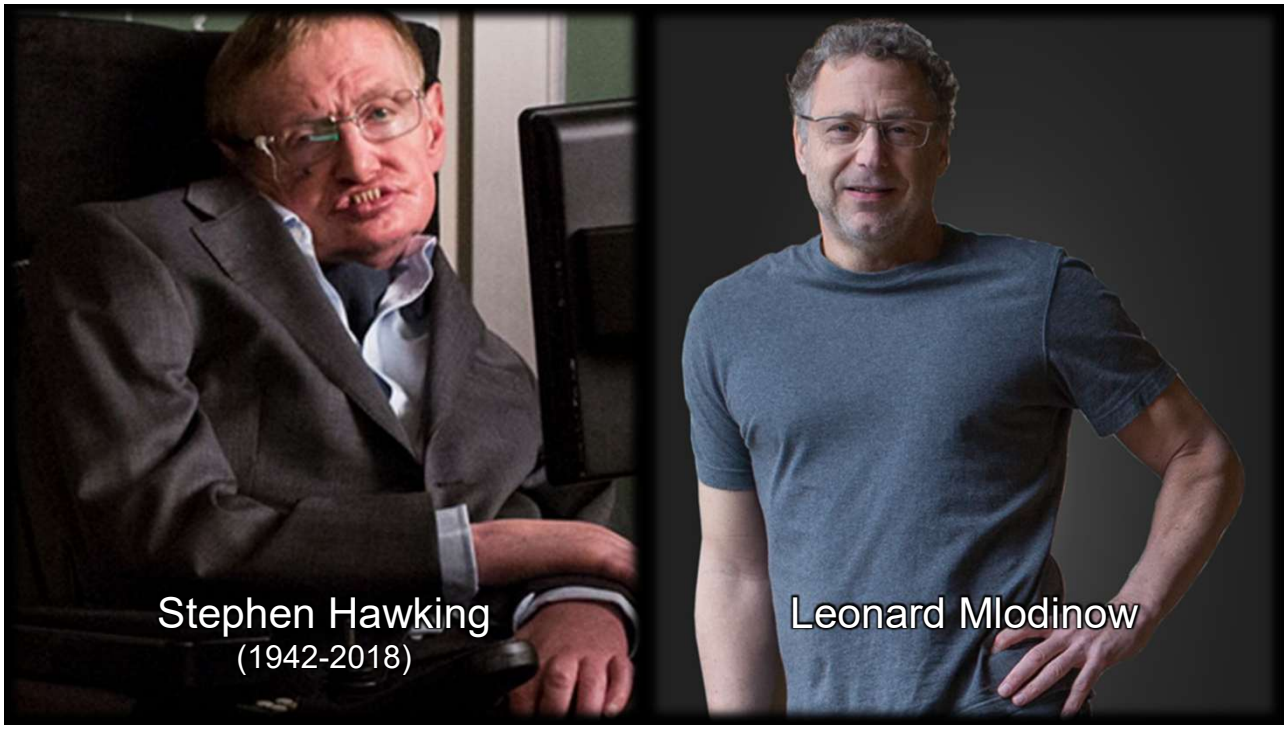


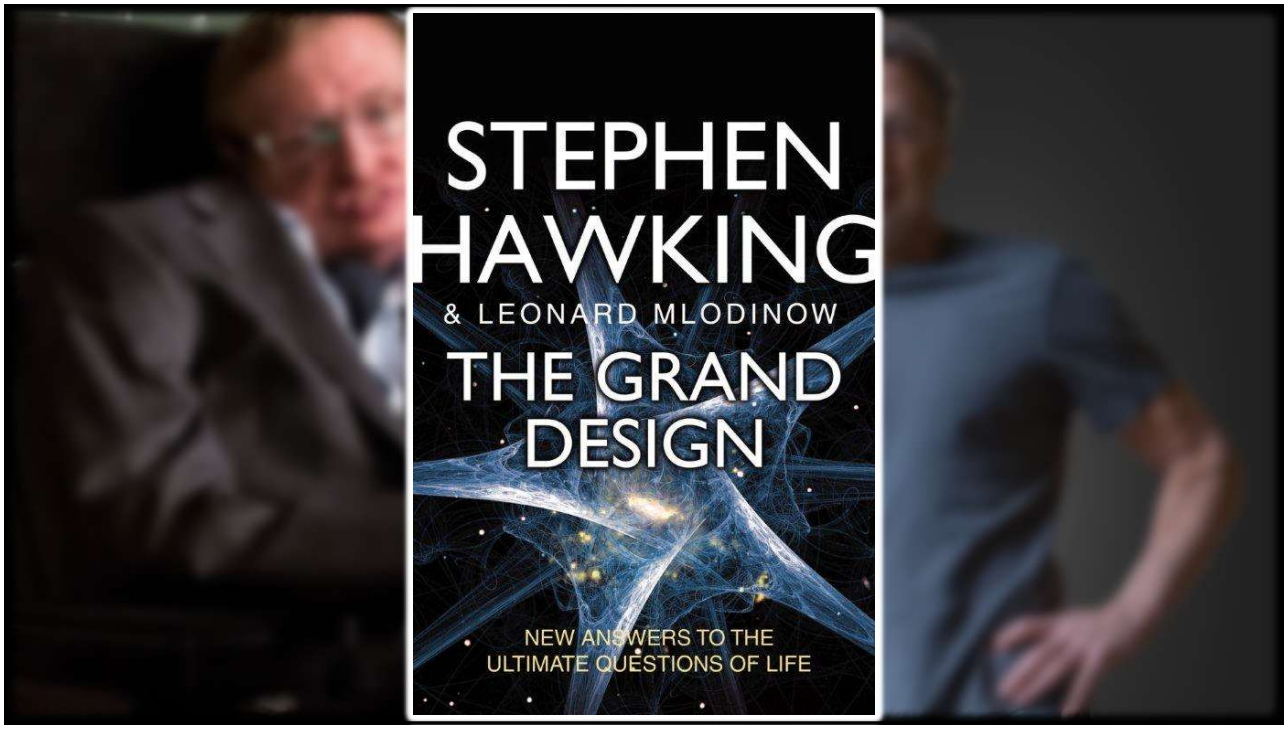

Richard Dawkins
"There is an answer to every such question [about God and miracles], whether or not we can discover it in practice, and it is a strictly scientific answer. The methods we should use to settle the matter, in the unlikely event that relevant evidence ever became available, would be purely and entirely scientific methods."
[Richard Dawkins, *The God Delusion*, 59.]


Syrian Refugees: Flight Into the Unknown
NATIONAL GEOGRAPHIC
CLIMATE CHANGE DOES NOT EXIST
EVOLUTION NEVER HAPPENED
THE MOON LANDING WAS FAKE
VACCINATIONS CAN LEAD TO AUTISM
GENETICALLY MODIFIED FOOD IS EVIL
THE WAR ON SCIENCE
Marcia McNutt


"Science is a method for deciding whether what we choose to believe has a basis in the laws of nature or not."
[in Joel Achenbach, "The Age of Disbelief," *National Geographic* (March 2015): 40]
Marcia McNutt


"I believe that anything that has been reported reliably — anything — can be interpreted scientifically within the framework of modern science."
Peter Atkins


Stephen Hawking
(1942-2018)
Leonard Mlodinow


STEPHEN HAWKING
& LEONARD MLODINOW
THE GRAND DESIGN
NEW ANSWERS TO THE ULTIMATE QUESTIONS OF LIFE

"How can we understand the world in which we find ourselves? How does the universe behave? What is the nature of reality? Where did all this come from? Did the universe need a creator? ... Traditionally these are questions for philosophy, but philosophy is dead. Philosophy has not kept up with modern developments in science, particularly physics."

[Stephen Hawking and Leonard Mlodinow, *The Grand Design* (New York: Bantam Books, 2010), 5]

General Revelation and Special Revelation

General Revelation

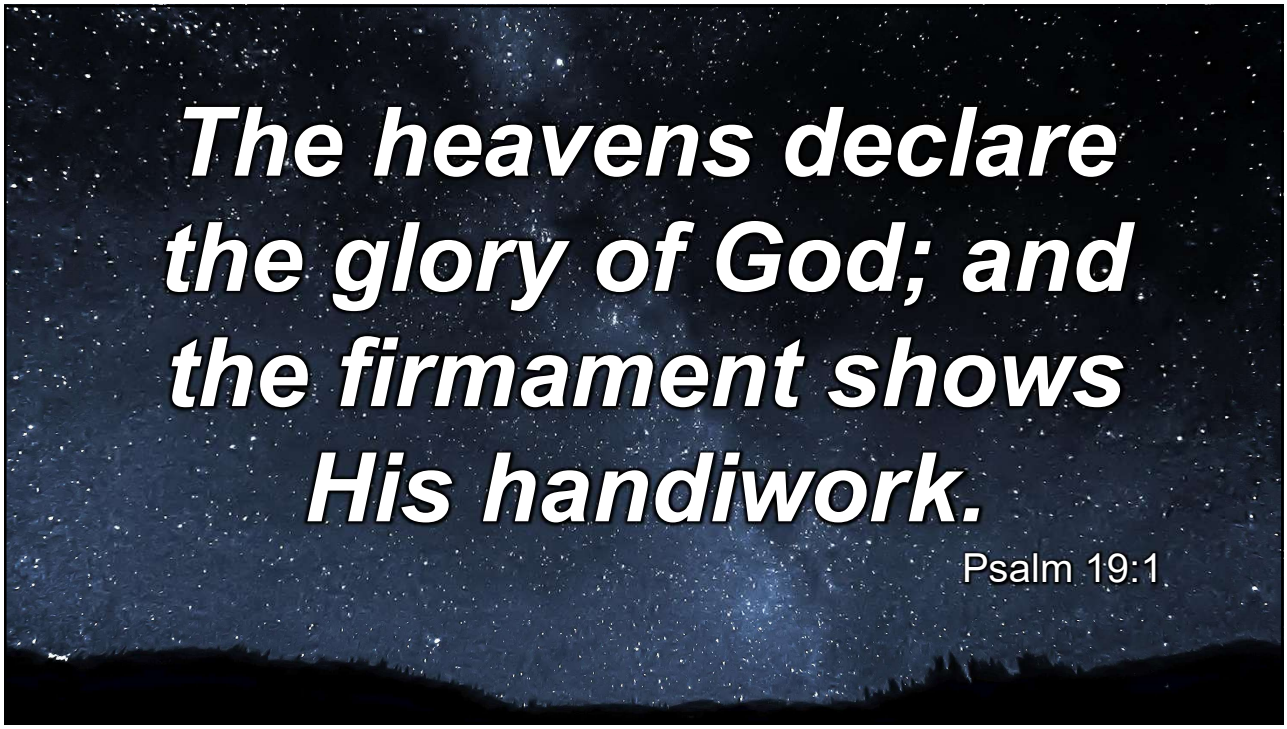
God making known to mankind through His creation His existence, attributes, and goodness.

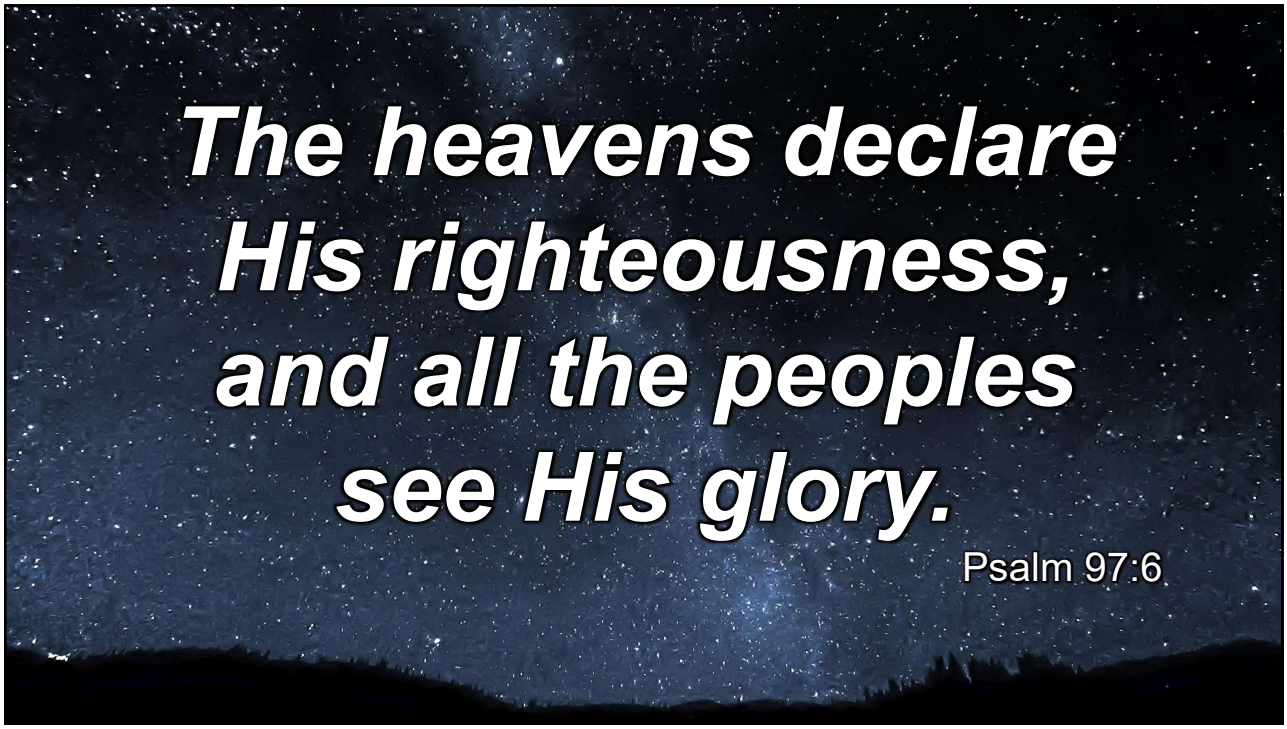
Special Revelation

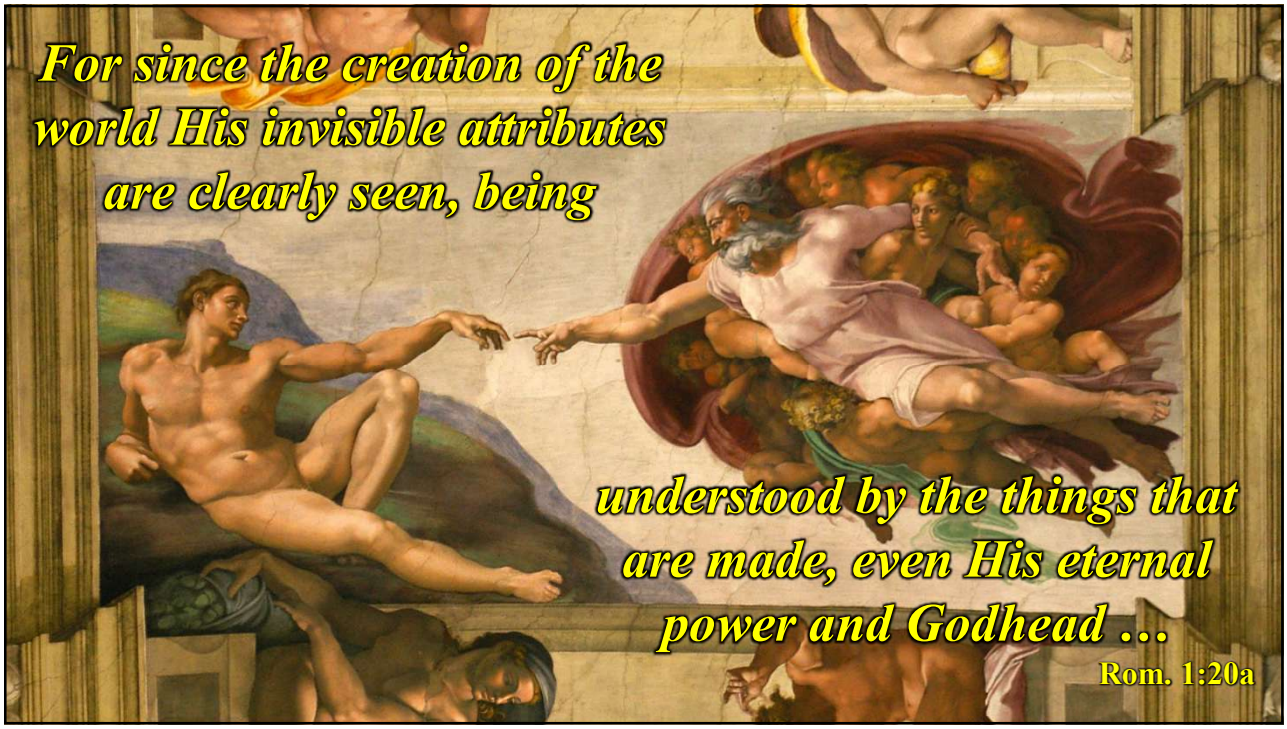
God making known to mankind through His prophets, apostles, and His Son His nature and will that could not necessarily be known through General Revelation

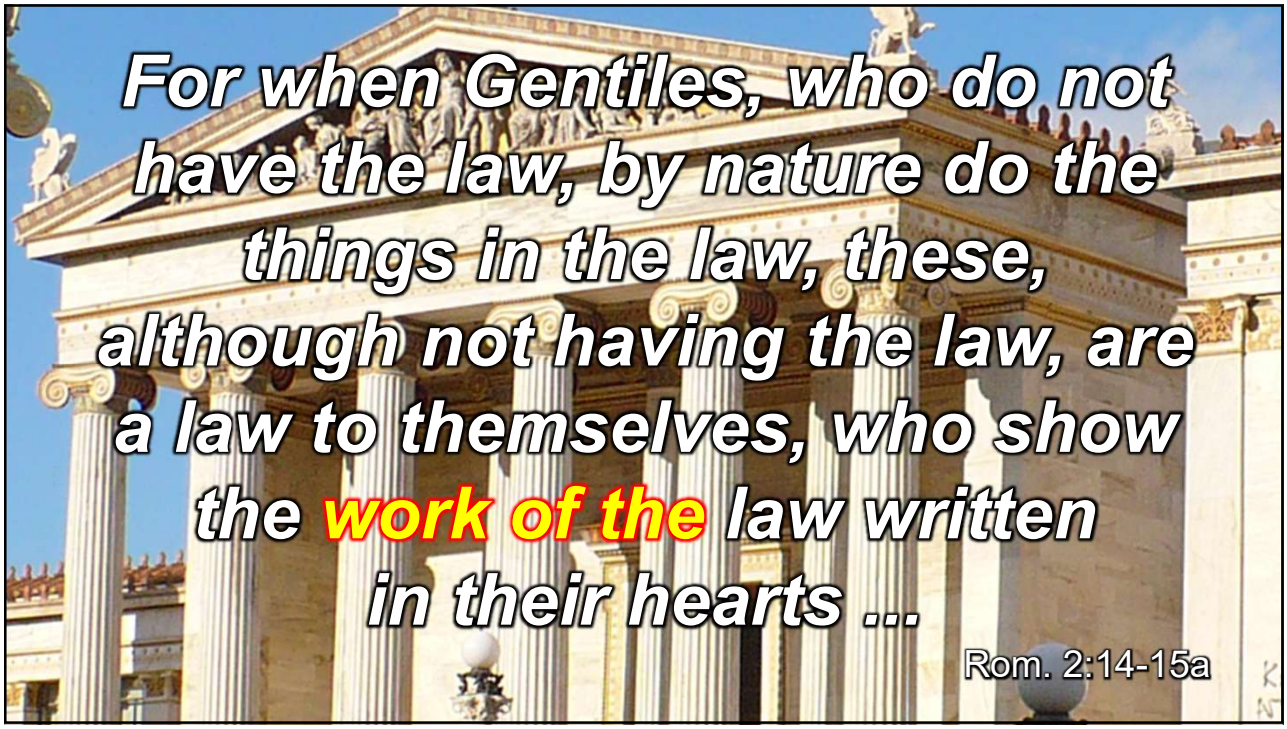
The Bible teaches that God has revealed himself through His creation.

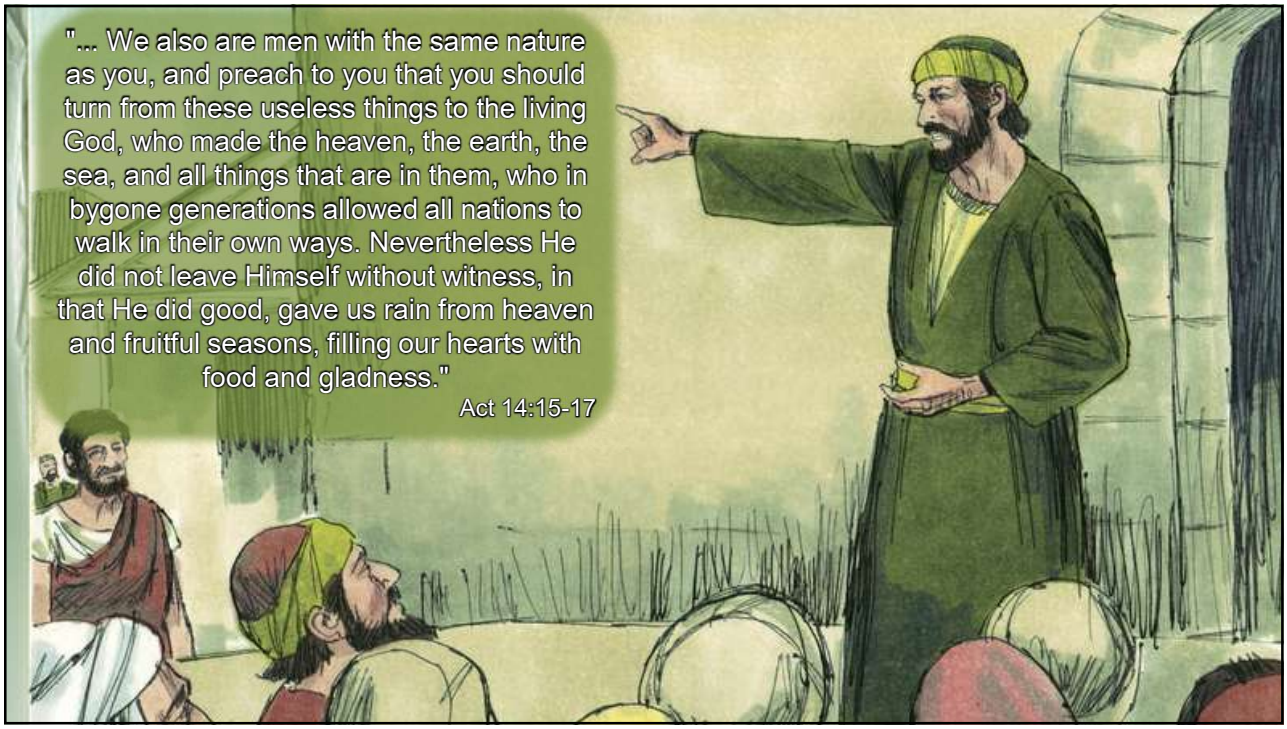
This being so, many people have been able to believe that God is real merely by observing the wonders of creation.

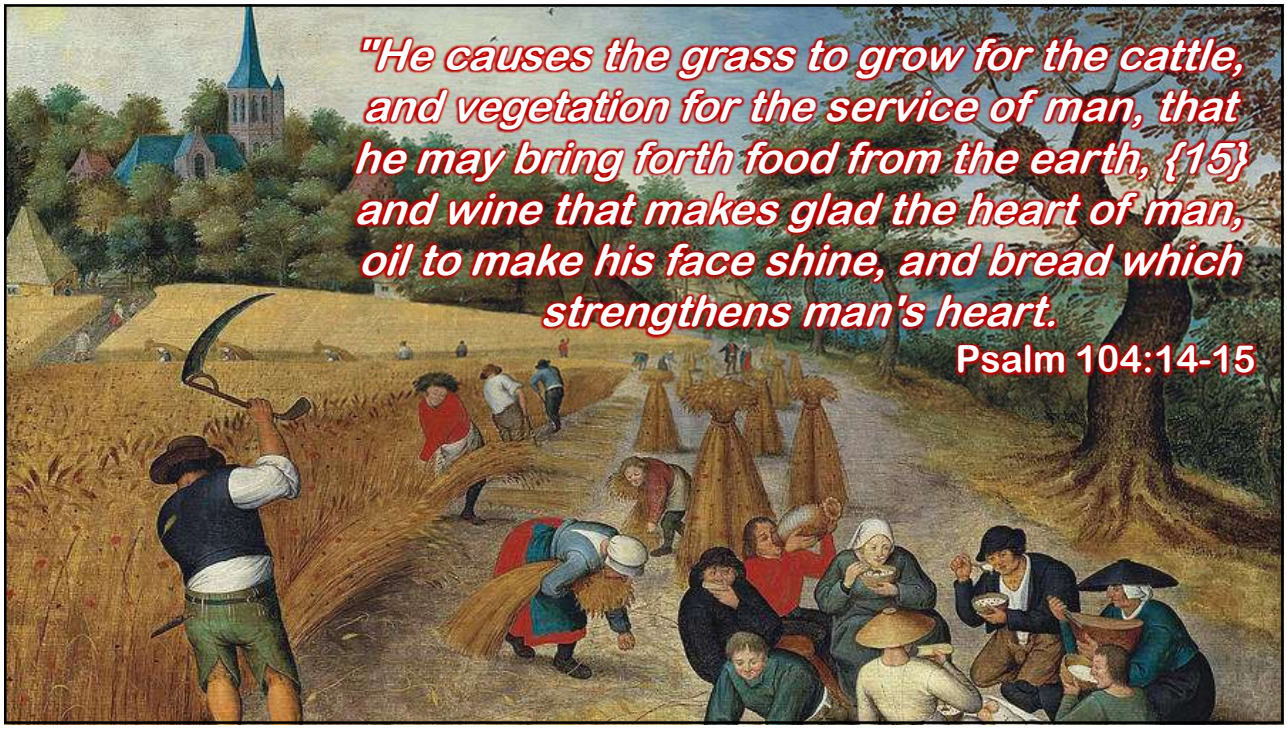

The heavens declare the glory of God; and the firmament shows His handiwork.
Psalm 19:1


The heavens declare His righteousness, and all the peoples see His glory.
Psalm 97:6


For since the creation of the world His invisible attributes are clearly seen, being
understood by the things that are made, even His eternal power and Godhead …
Rom. 1:20a

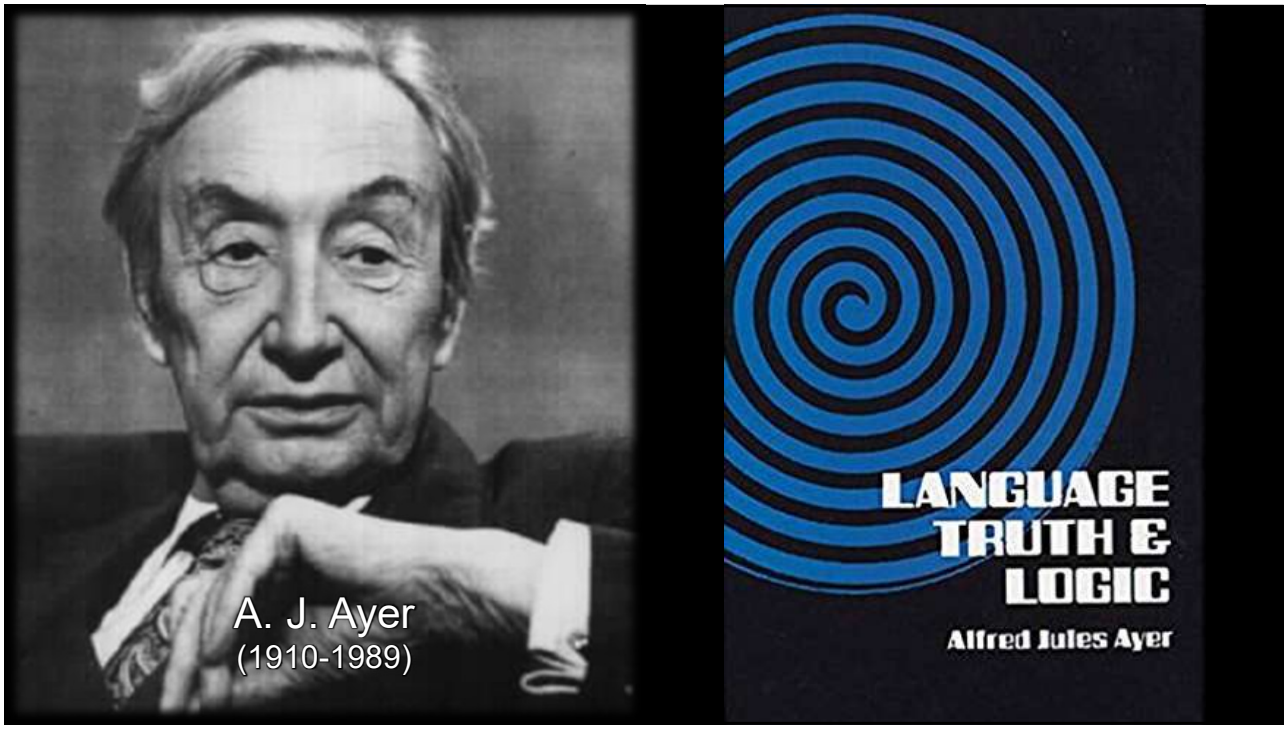

For when Gentiles, who do not have the law, by nature do the things in the law, these, although not having the law, are a law to themselves, who show the work of the law written in their hearts …
Rom. 2:14-15a

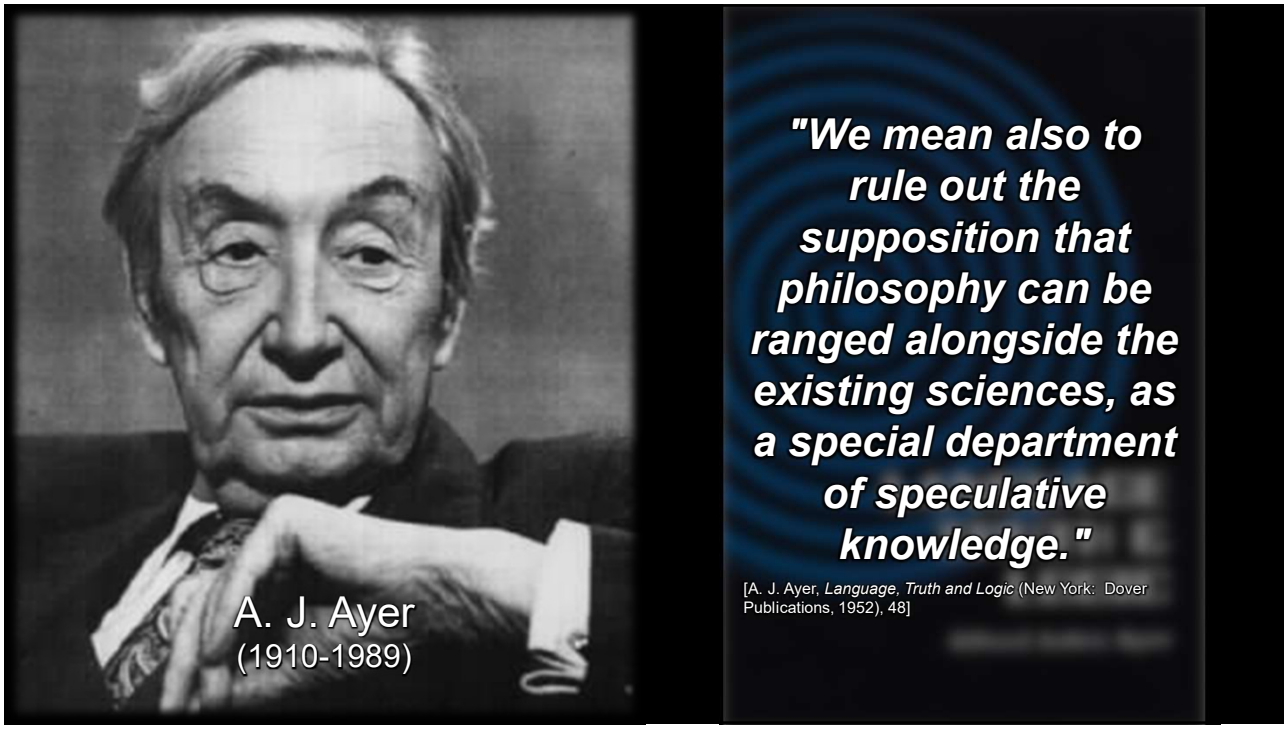

"... We also are men with the same nature as you, and preach to you that you should turn from these useless things to the living God, who made the heaven, the earth, the sea, and all things that are in them, who in bygone generations allowed all nations to walk in their own ways. Nevertheless He did not leave Himself without witness, in that He did good, gave us rain from heaven and fruitful seasons, filling our hearts with food and gladness."
Act 14:15-17

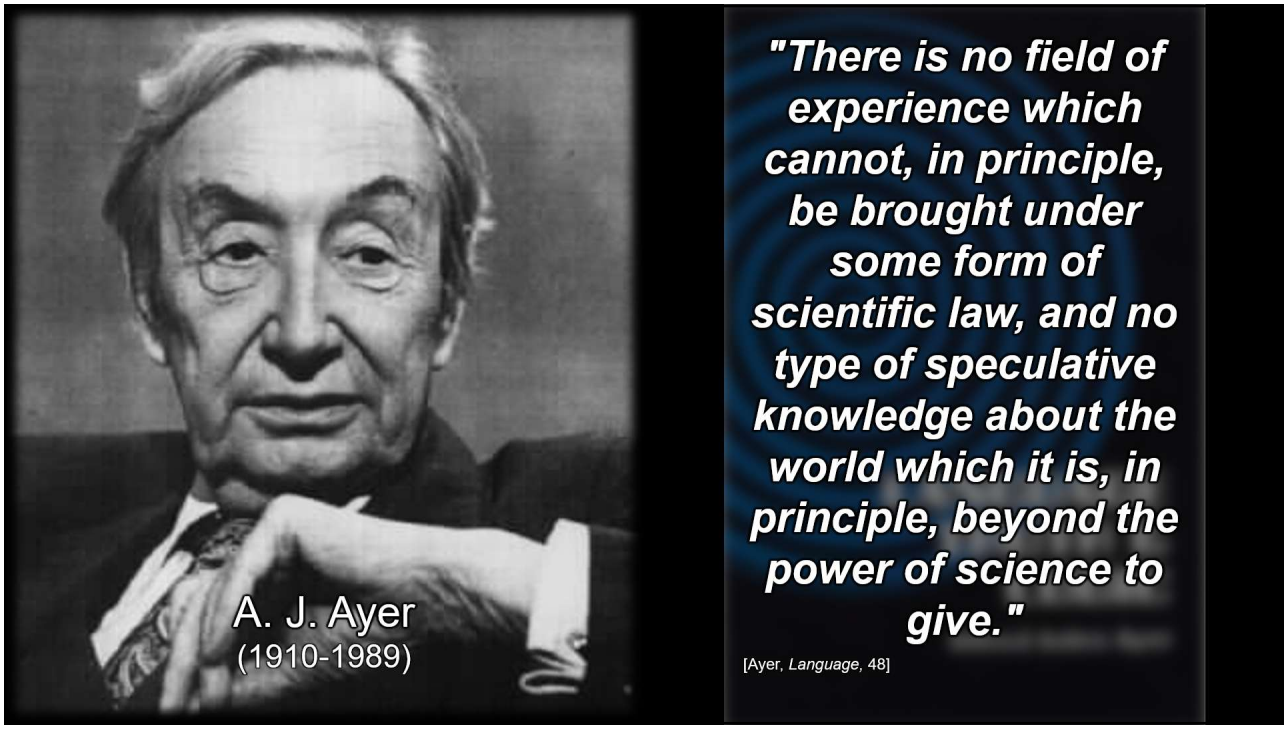

"He causes the grass to grow for the cattle, and vegetation for the service of man, that he may bring forth food from the earth, {15} and wine that makes glad the heart of man, oil to make his face shine, and bread which strengthens man's heart.
Psalm 104:14-15

But as more toxic philosophical voices have fogged the conversation throughout history, the need arises to appeal to deeper issues in philosophy.

Answering the Philosophers: A. J. Ayer


A. J. Ayer
(1910-1989)
LANGUAGE
TRUTH &
LOGIC
Alfred Jules Ayer


A. J. Ayer
(1910-1989)
"We mean also to rule out the supposition that philosophy can be ranged alongside the existing sciences, as a special department of speculative knowledge."
[A. J. Ayer, *Language, Truth and Logic* (New York: Dover Publications, 1952), 48]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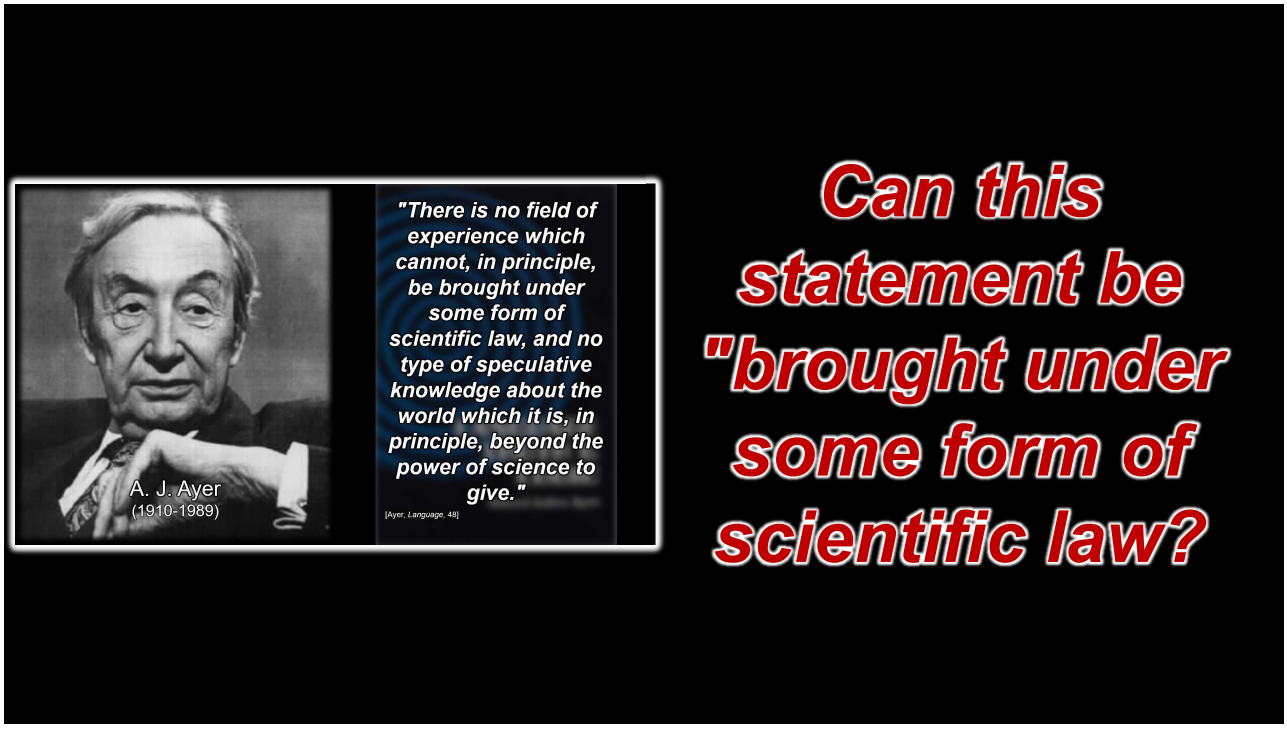
"There is no field of experience which cannot, in principle, be brought under some form of scientific law, and no type of speculative knowledge about the world which it is, in principle, beyond the power of science to give."
[Ayer, Language, 48]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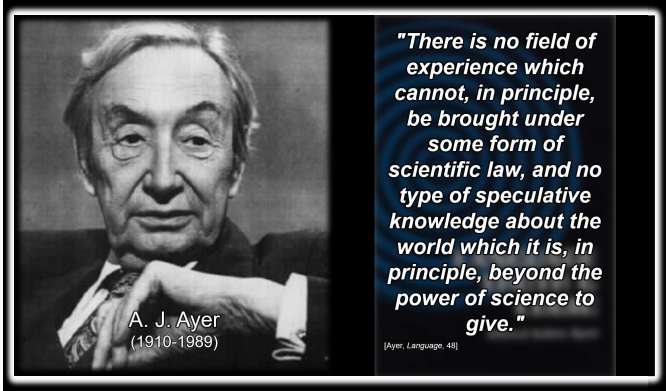
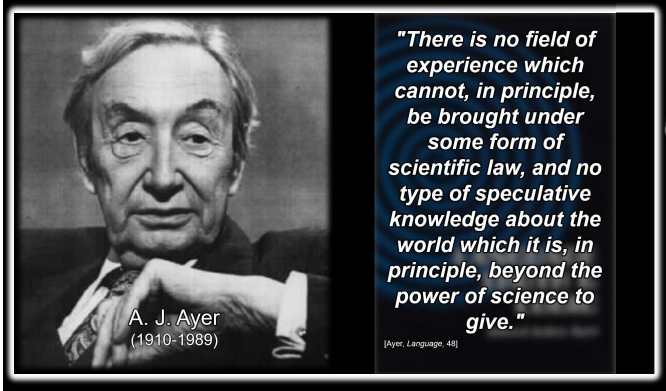
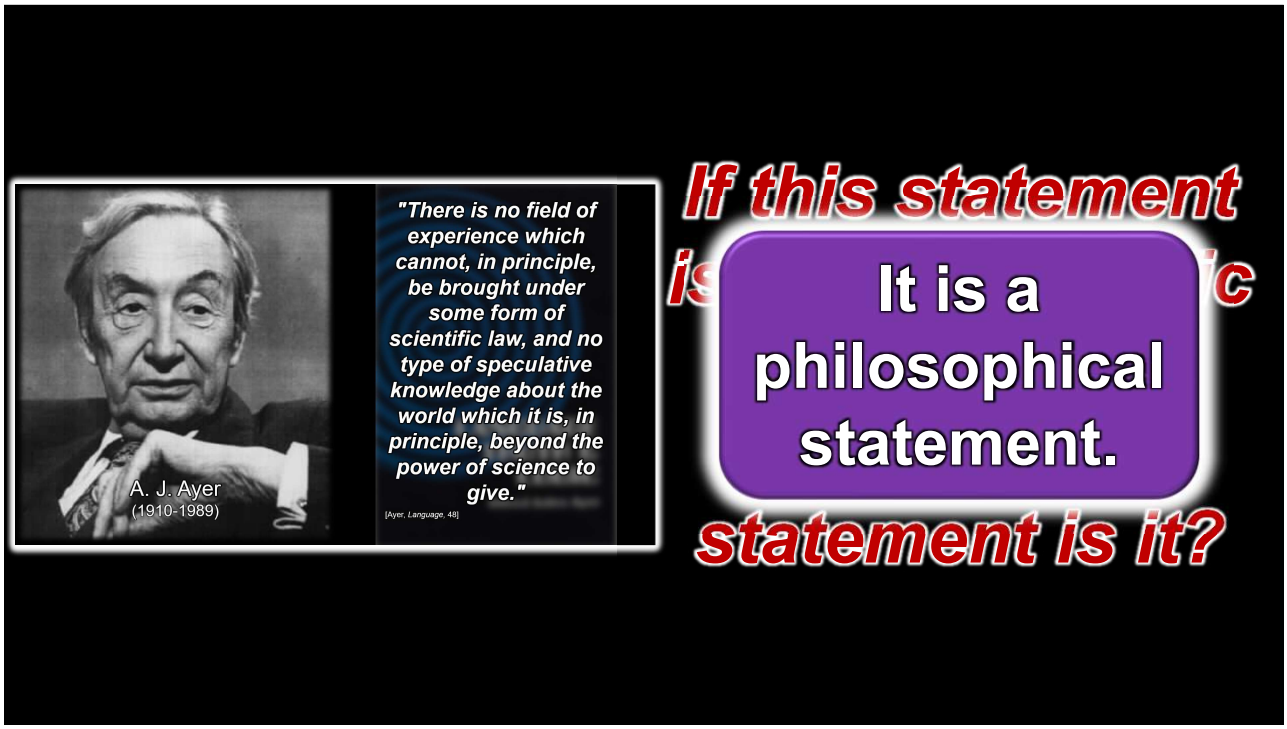
Can this statement be "brought under some form of scientific law?



If the answer is no, then this statement is not a scientific statement.



If this statement is not a scientific statement, what kind of statement is it?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[Ayer, Language, 48]
If this statement
It is a philosophical statement.
statement is it?


A. J. Ayer
(1910-1989)
"The philosopher, as an analyst, is not directly concerned with the physical properties of things. He is concerned only with the way in which we speak about them. In other words, the propositions of philosophy are not factual, but linguistic in character."
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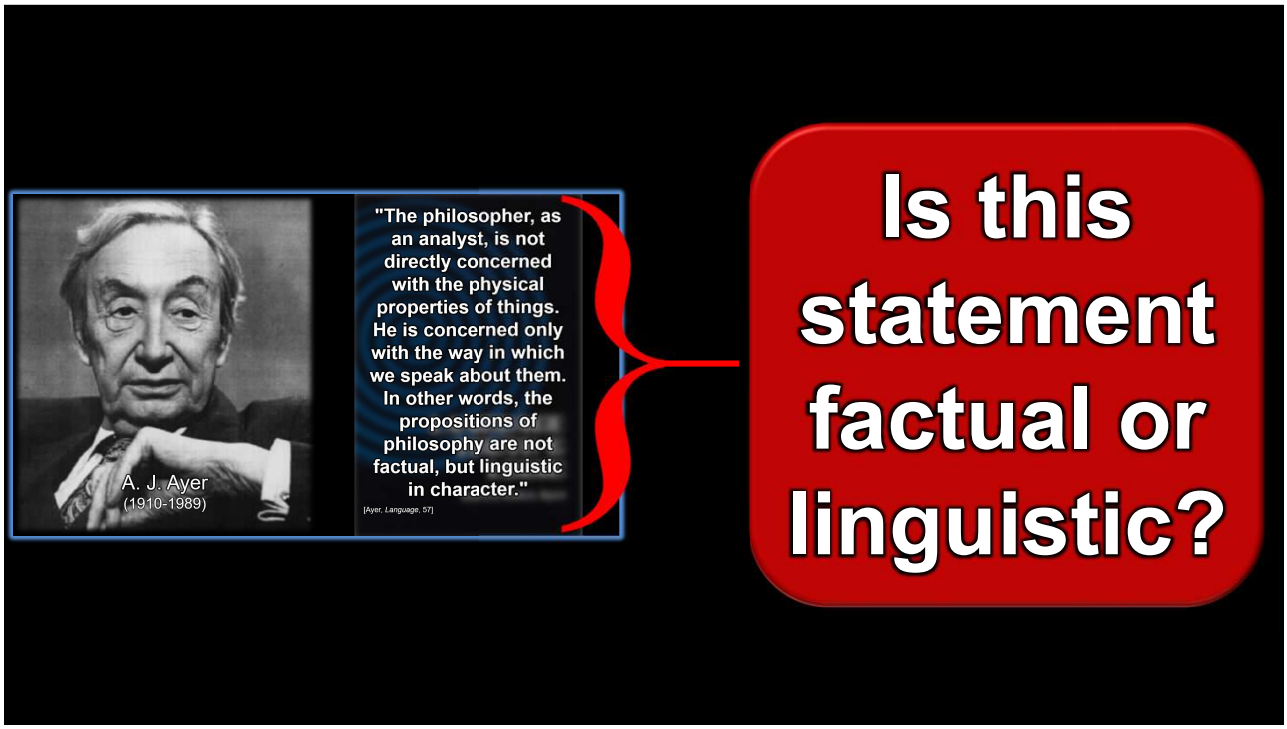
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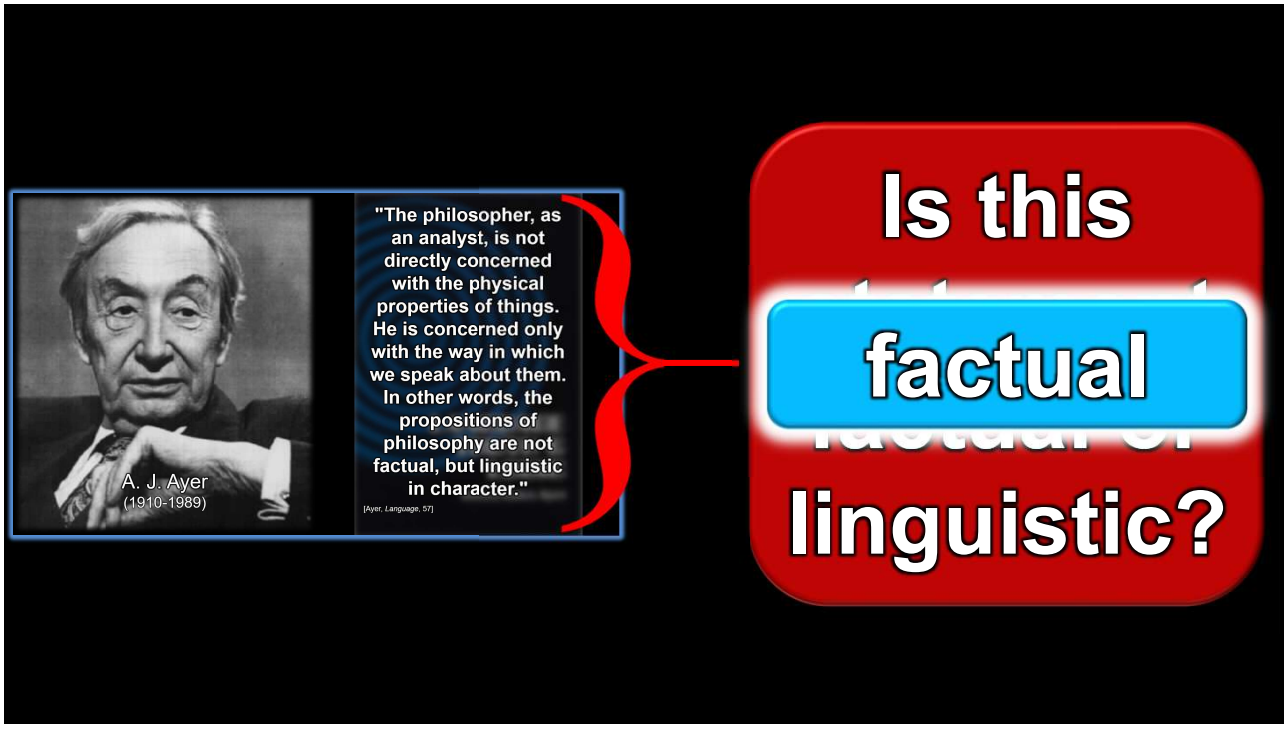
[Ayer, Language, 57]
Is this statement factual or linguistic?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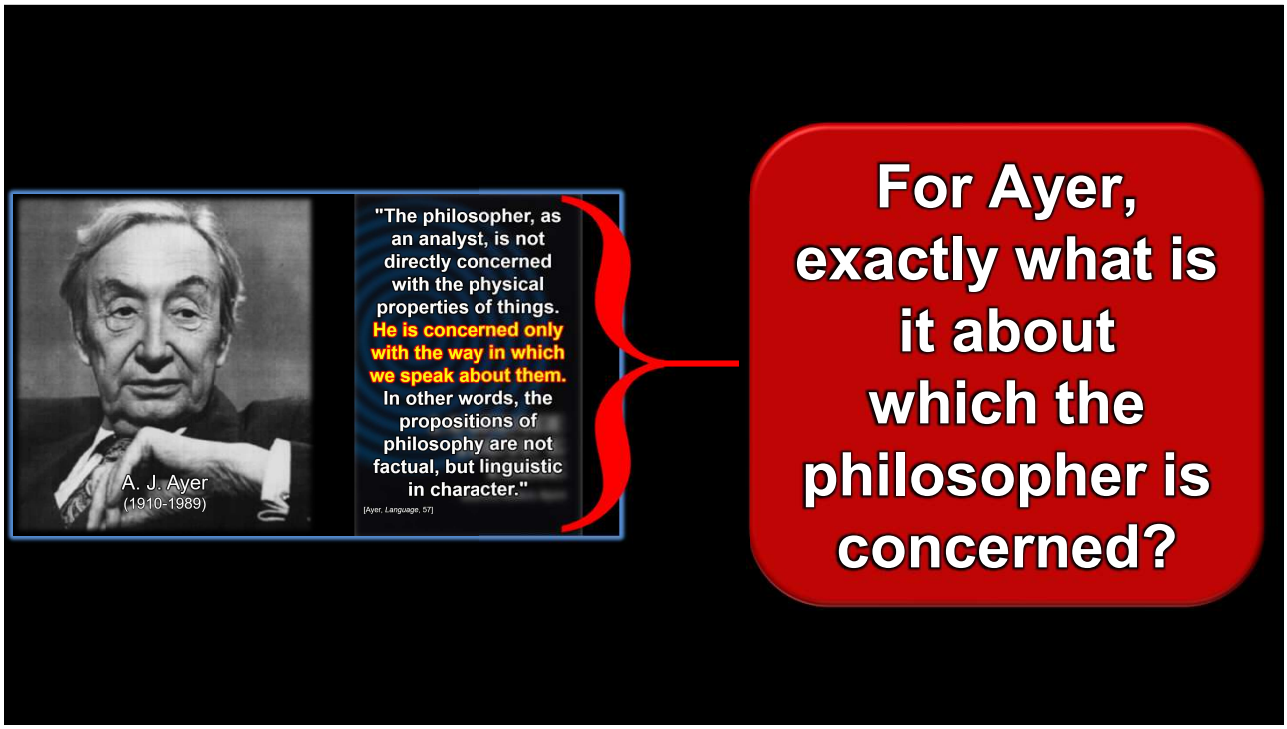
Is this
factual
linguistic?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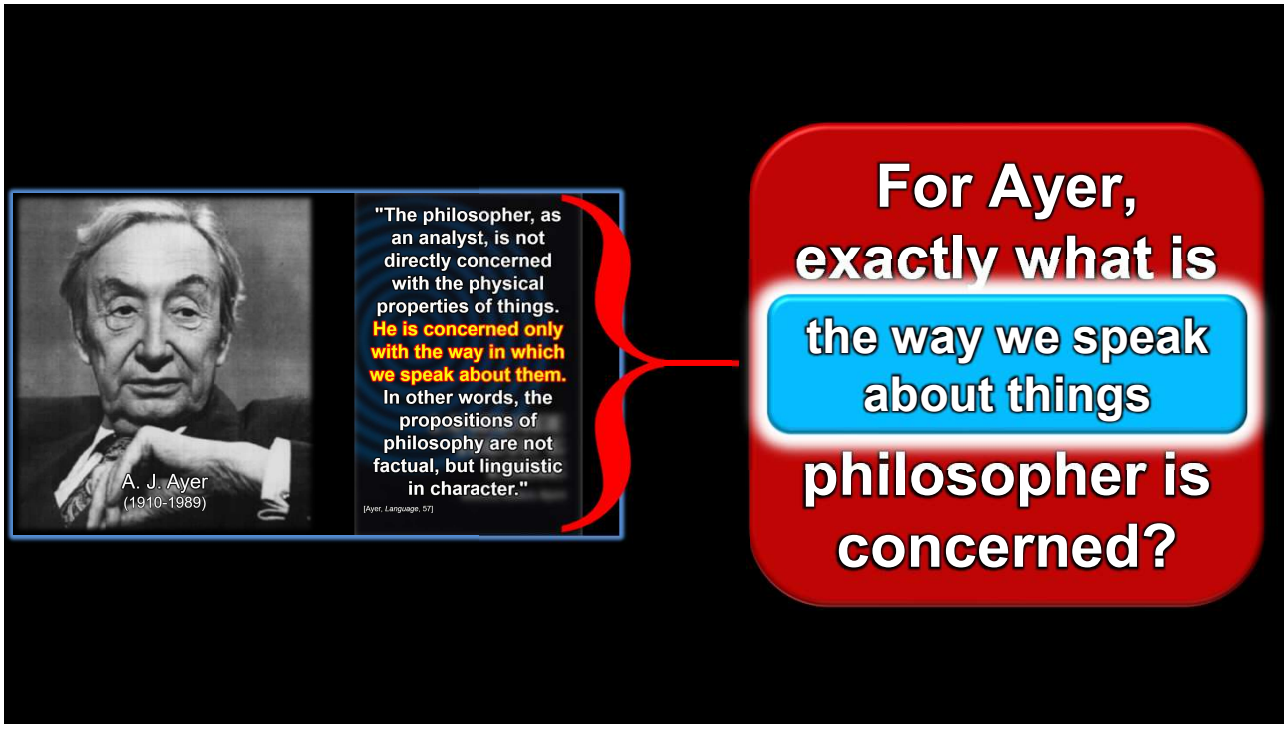
For Ayer, exactly what is it about which the philosopher is concerned?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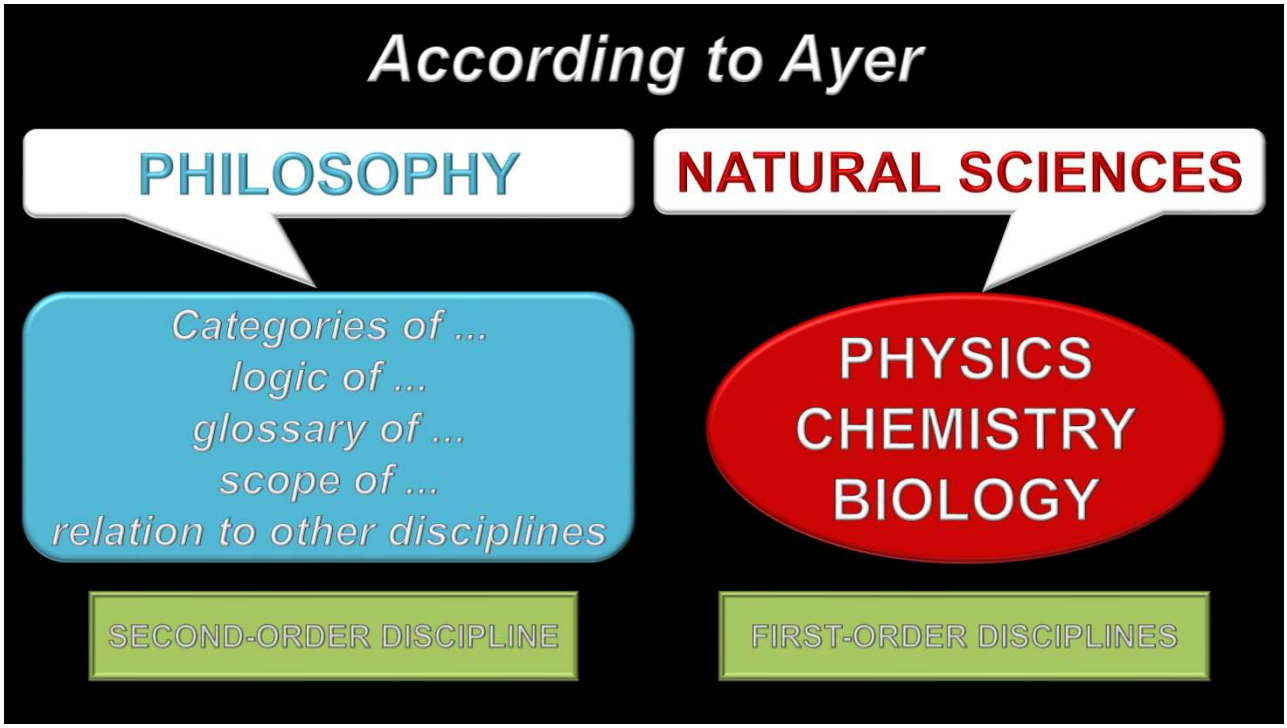
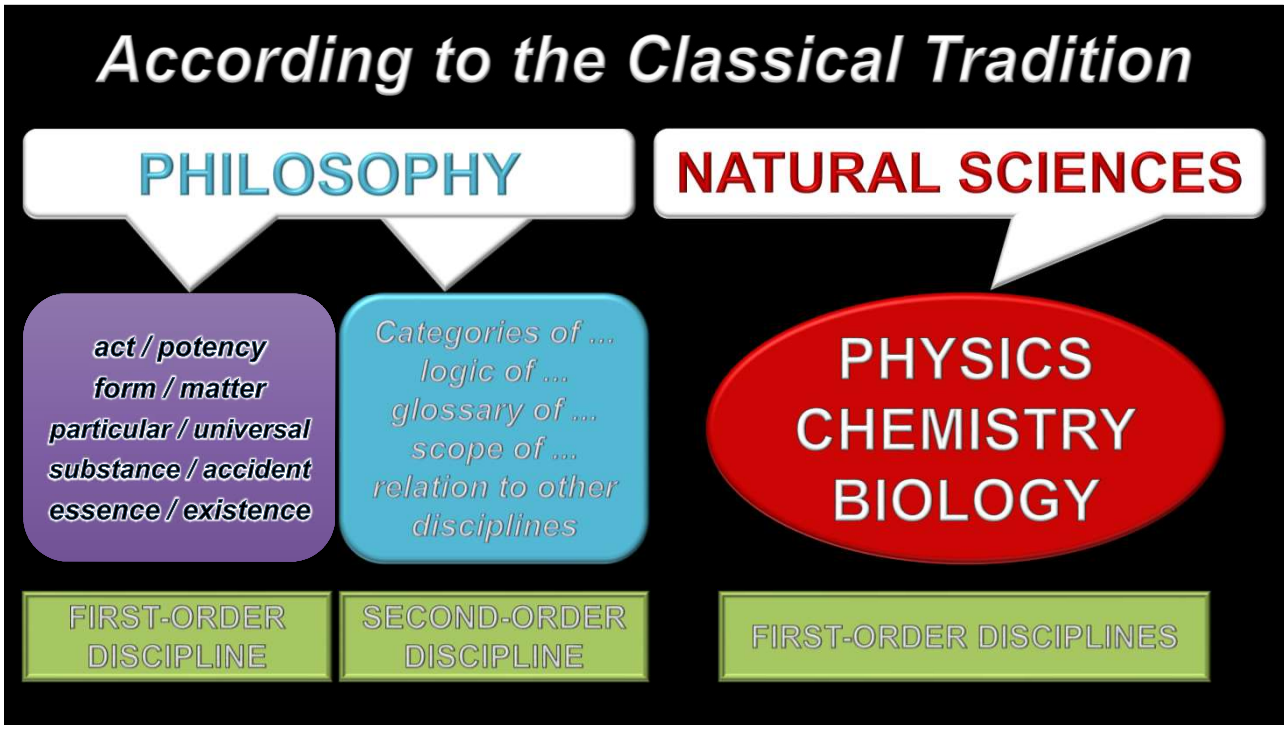
[Ayer, Language, 57]
For Ayer, exactly what is
the way we speak about things
philosopher is concerned?


the way we speak about the physical properties of things
physical properties of things
things


According to Ayer
PHILOSOPHY
NATURAL SCIENCES
Categories of ...
logic of ...
glossary of ...
scope of ...
relation to other disciplines
PHYSICS
CHEMISTRY
BIOLOGY
SECOND-ORDER DISCIPLINE
FIRST-ORDER DISCIPLINES


According to the Classical Tradition
PHILOSOPHY
NATURAL SCIENCES
act / potency
form / matter
particular / universal
substance / accident
essence / existence
Categories of ...
logic of ...
glossary of ...
scope of ...
relation to other disciplines
PHYSICS
CHEMISTRY
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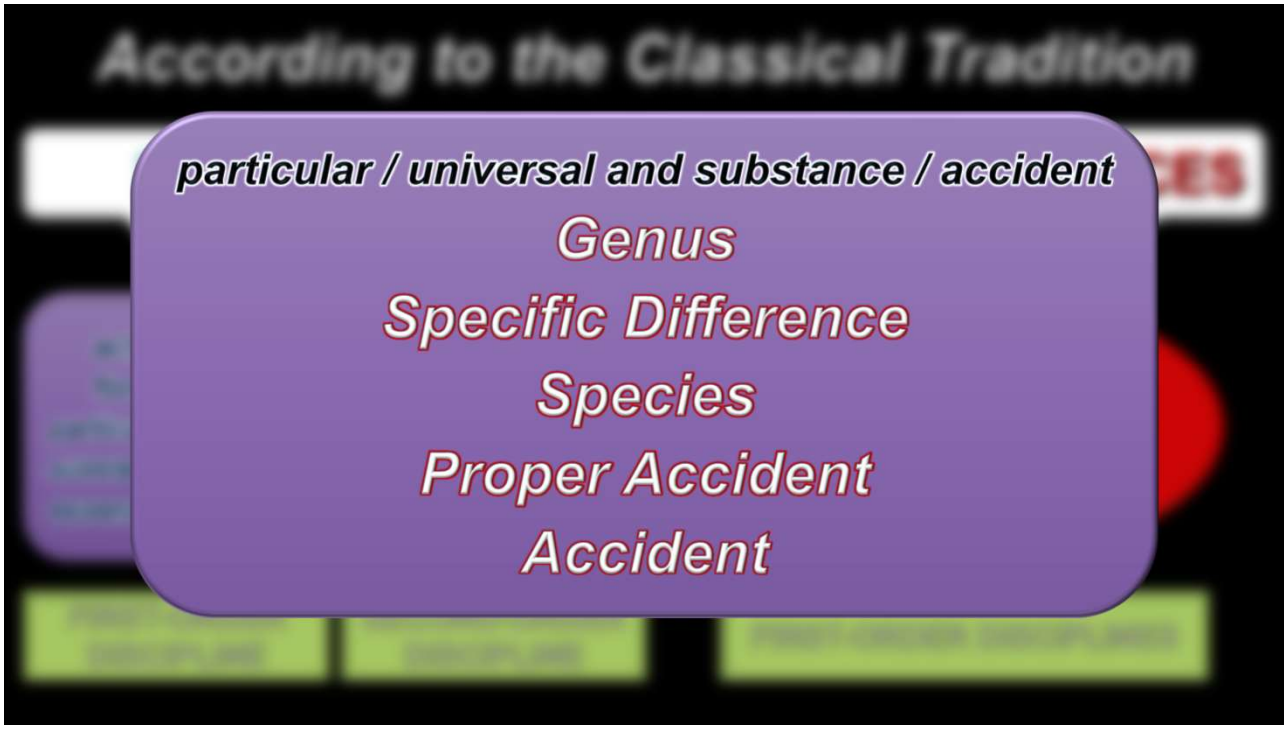
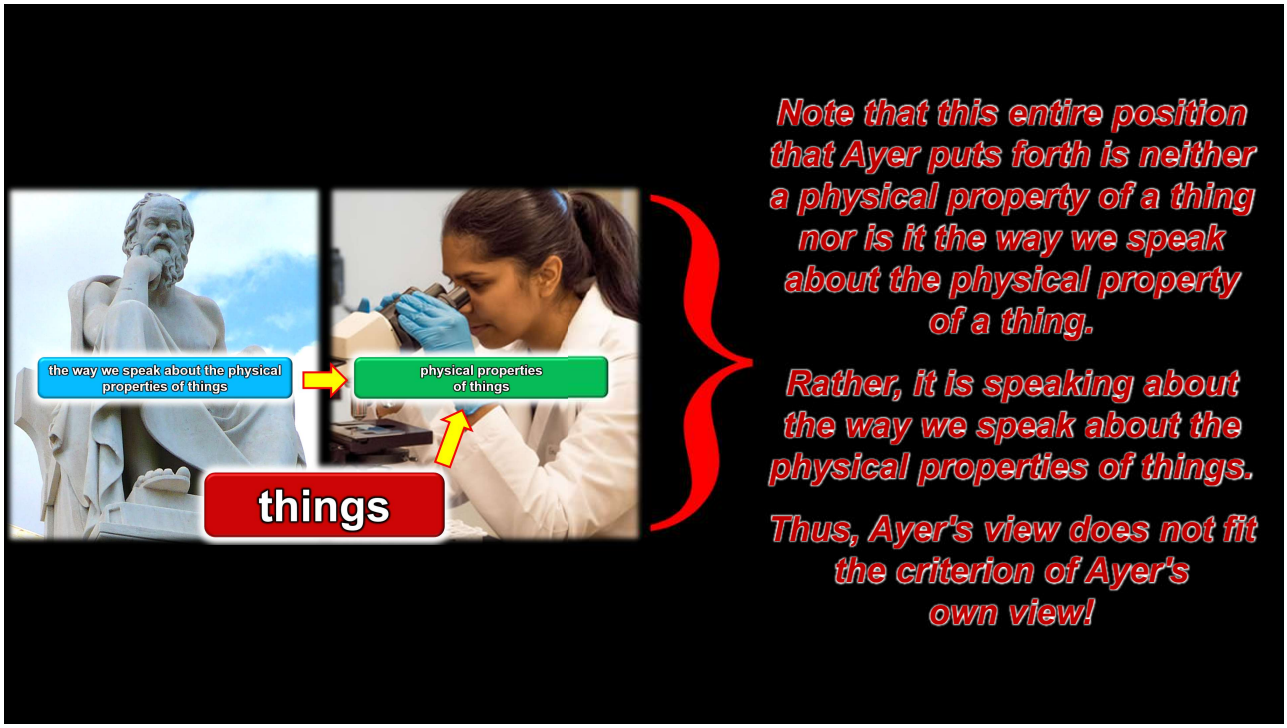
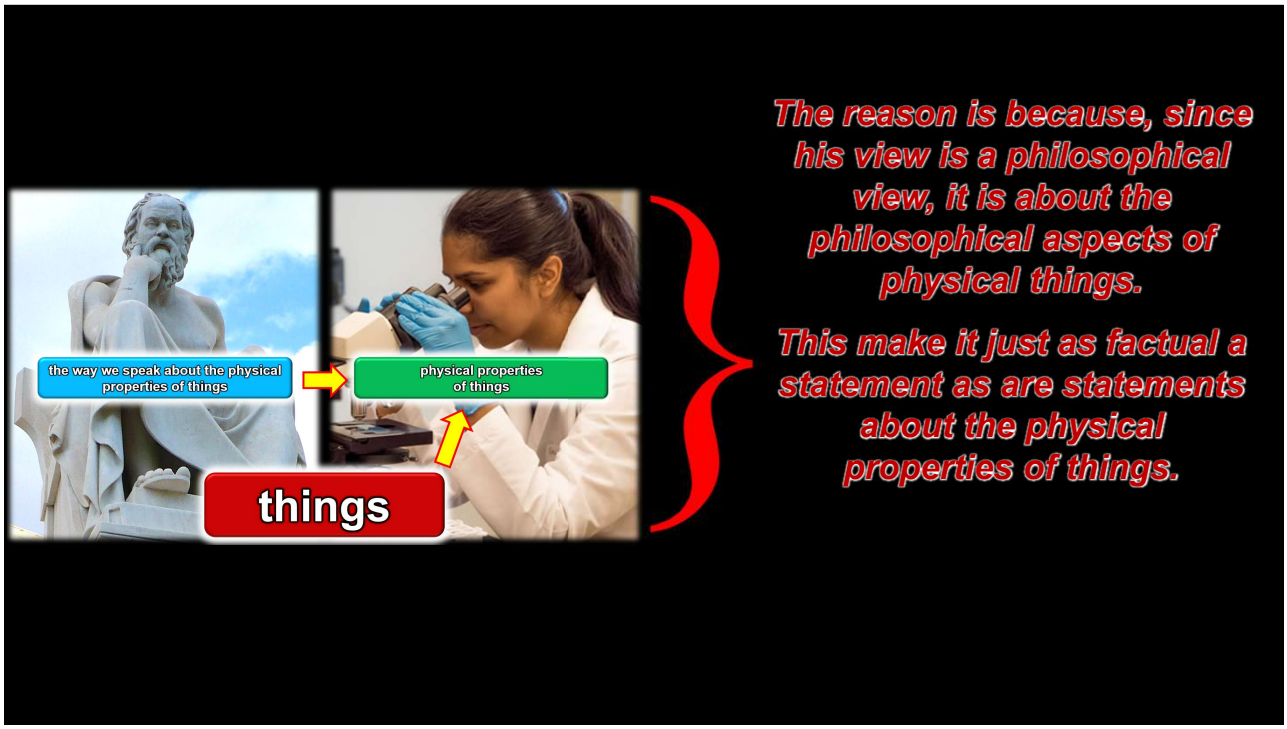
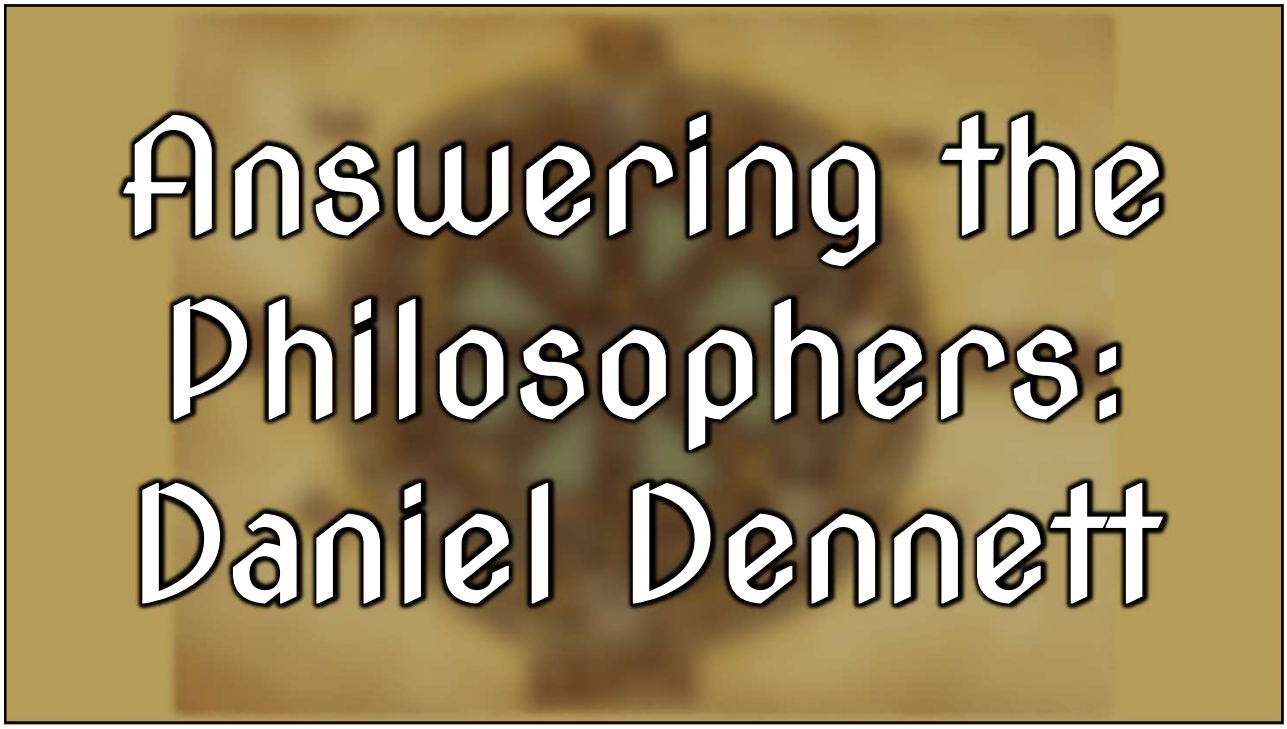
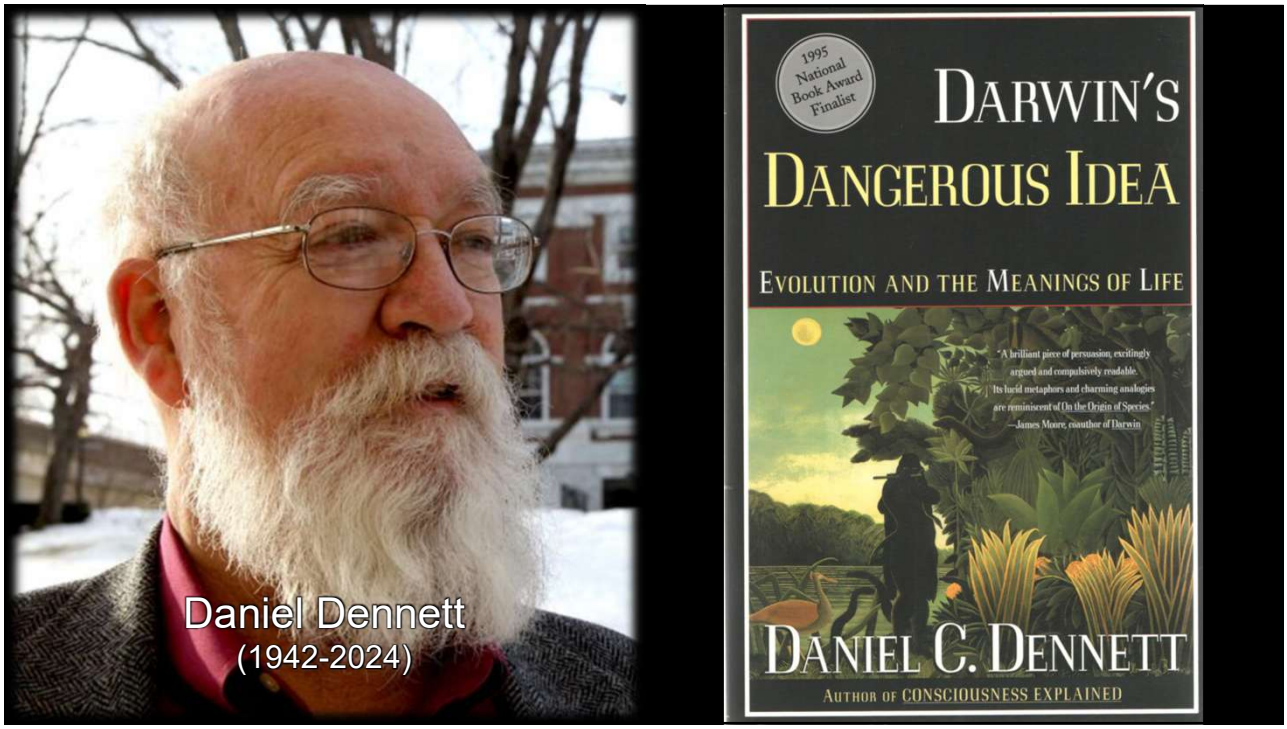

According to the Classical Tradition
particular / universal and substance / accident
Genus
Specific Difference
Species
Proper Accident
Accident

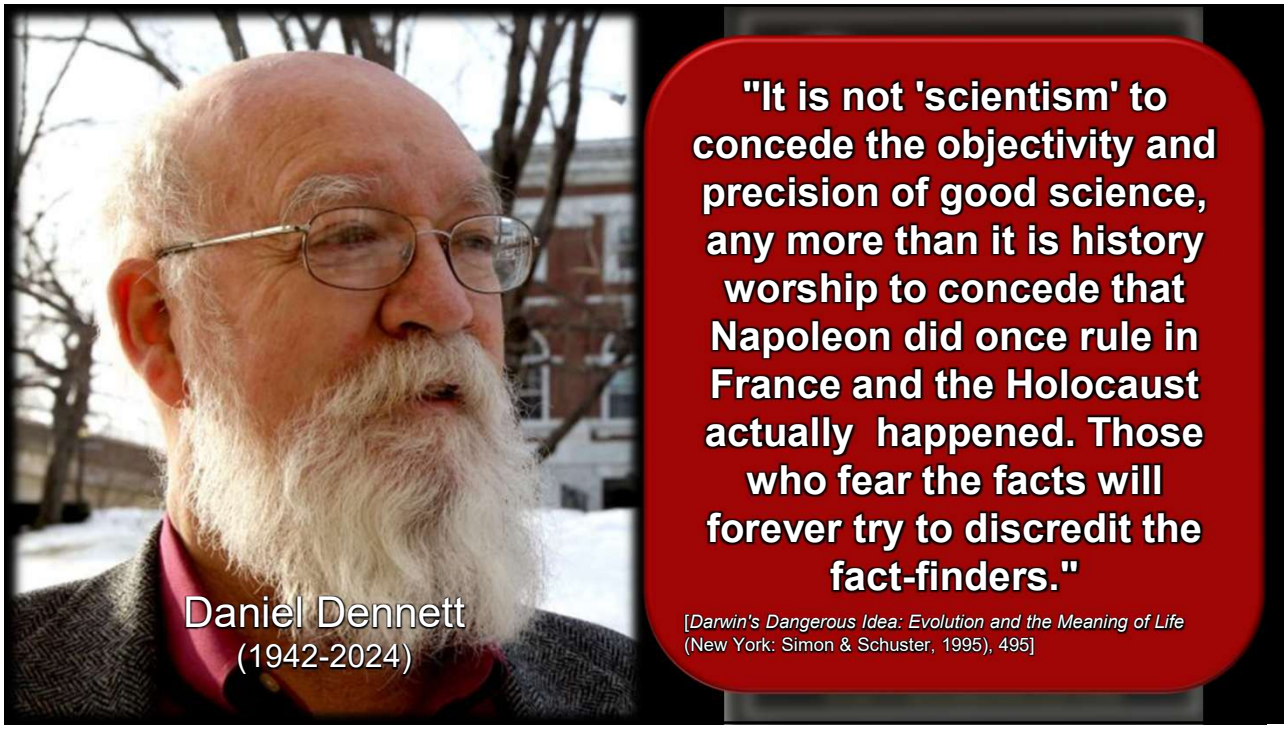

the way we speak about the physical properties of things
physical properties of things
things


the way we speak about the physical properties of things
physical properties of things
things
Note that this entire position that Ayer puts forth is neither a physical property of a thing nor is it the way we speak about the physical property of a thing.
Rather, it is speaking about the way we speak about the physical properties of things.
Thus, Ayer's view does not fit the criterion of Ayer's own view!


the way we speak about the physical properties of things
physical properties of things
things
The reason is because, since his view is a philosophical view, it is about the philosophical aspects of physical things.
This make it just as factual a statement as are statements about the physical properties of things.


Answering the Philosophers: Daniel Dennett


Daniel Dennett
(1942-2024)
1995 National Book Award Finalist
DARWIN'S DANGEROUS IDEA
EVOLUTION AND THE MEANINGS OF LIFE
"A brilliant piece of persuasion, excitingly argued and compulsively readable. Its lucid metaphors and charming analogies are reminiscent of On the Origin of Species."
—James Moore, coauthor of Darwin
DANIEL C. DENNETT
AUTHOR OF CONSCIOUSNESS EXPLAINED


Daniel Dennett
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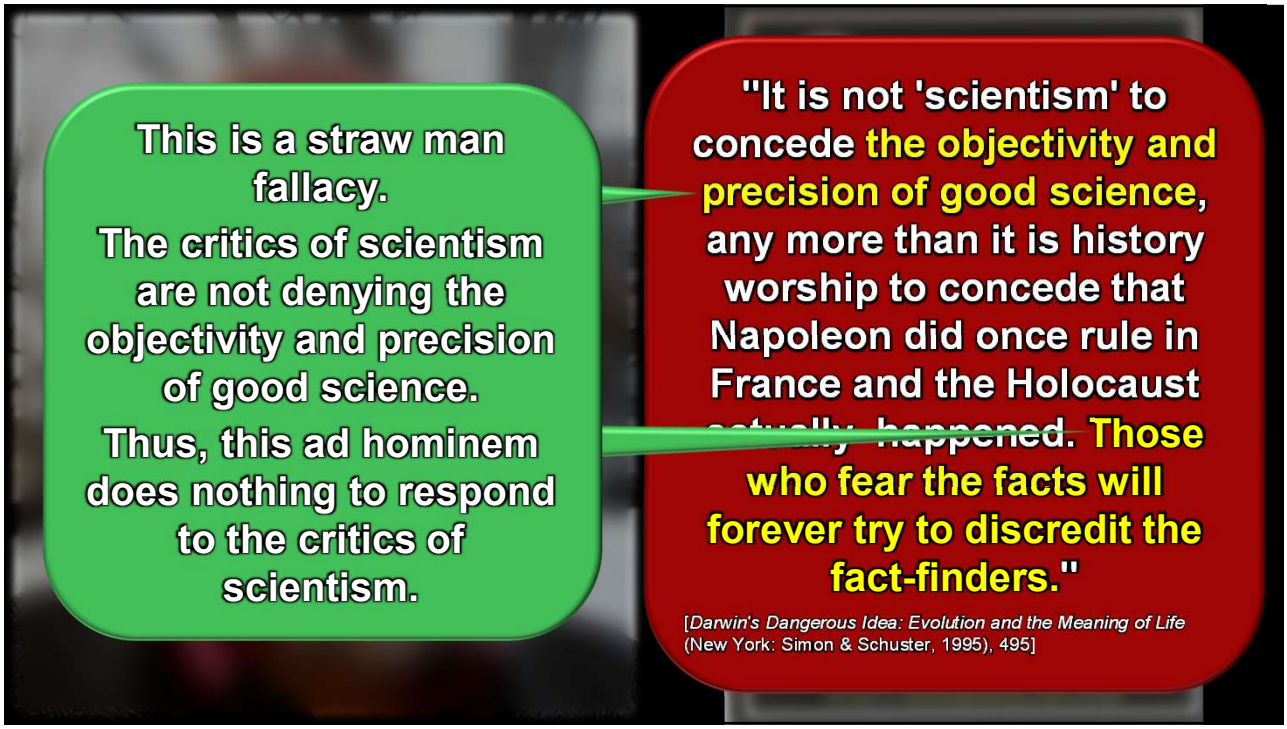
"It is not 'scientism' to concede the objectivity and precision of good science, any more than it is history worship to concede that Napoleon did once rule in France and the Holocaust actually happened. Those who fear the facts will forever try to discredit the fact-finders."
[Darwin's Dangerous Idea: Evolution and the Meaning of Life (New York: Simon & Schuster, 1995), 495]


This is a straw man fallacy.
The critics of scientism are not denying the objectivity and precision of good science.
Thus, this ad hominem does nothing to respond to the critics of scientism.
"It is not 'scientism' to concede the objectivity and precision of good science, any more than it is history worship to concede that Napoleon did once rule in France and the Holocaust actually happened. Those who fear the facts will forever try to discredit the fact-finders."
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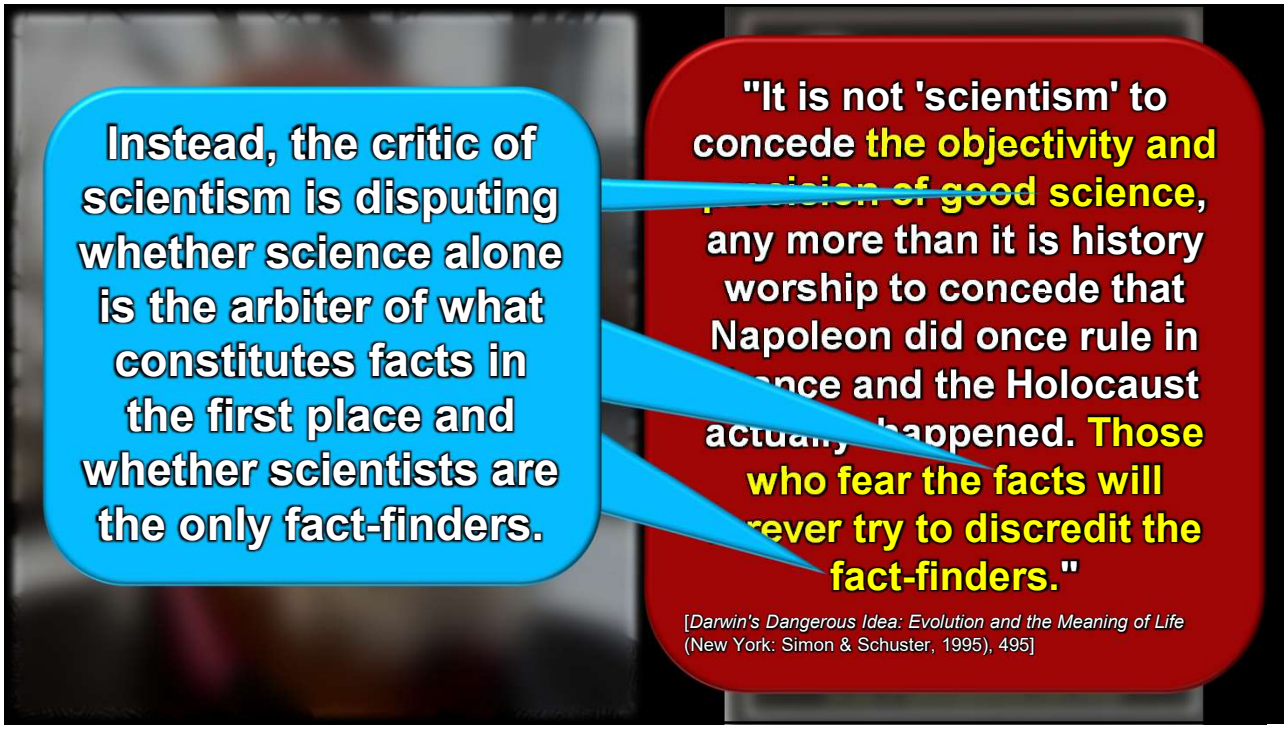
Instead, the critic of scientism is disputing whether science alone is the arbiter of what constitutes facts in the first place and whether scientists are the only fact-finders.
"It is not 'scientism' to concede the objectivity and precision of good science, any more than it is history worship to concede that Napoleon did once rule in France and the Holocaust actually happened. Those who fear the facts will forever try to discredit the fact-finders."
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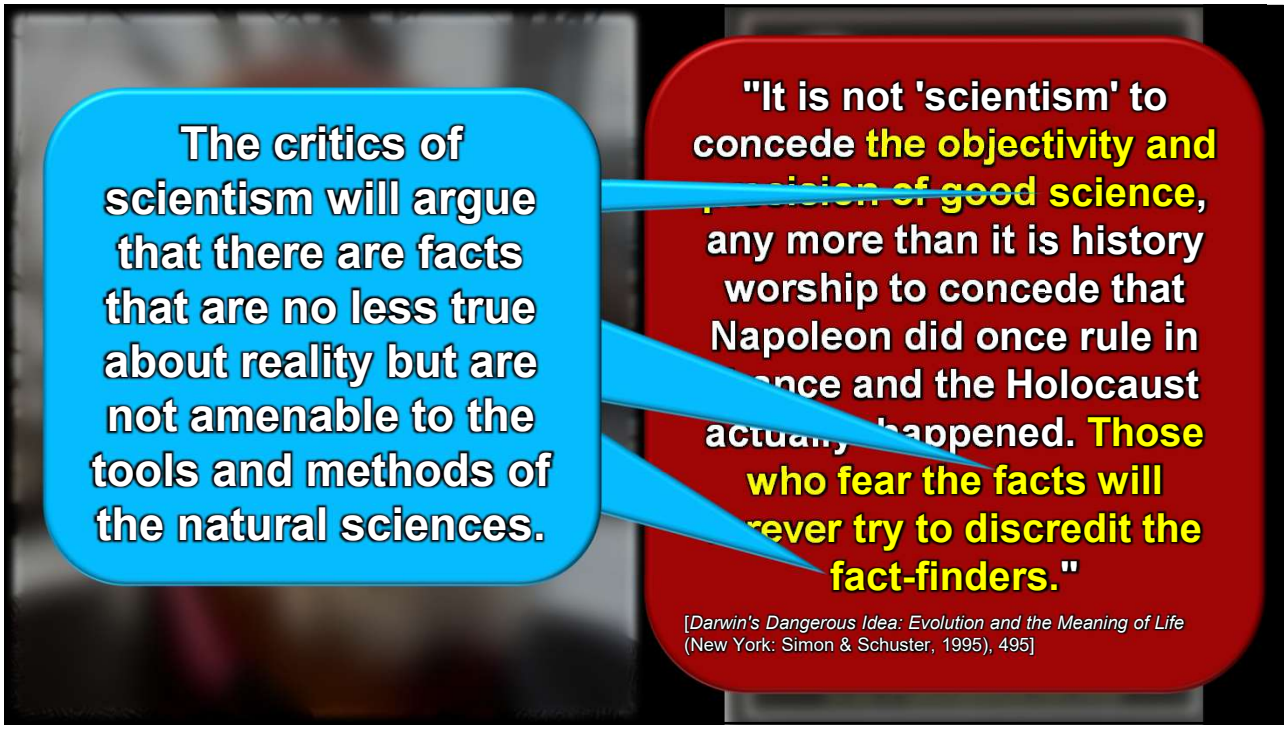
The critics of scientism will argue that there are facts that are no less true about reality but are not amenable to the tools and methods of the natural sciences.
"It is not 'scientism' to concede the objectivity and [illegible] of good science, any more than it is history worship to concede that Napoleon did once rule in [illegible]nce and the Holocaust actually happened. Those who fear the facts will never try to discredit the fact-finders."
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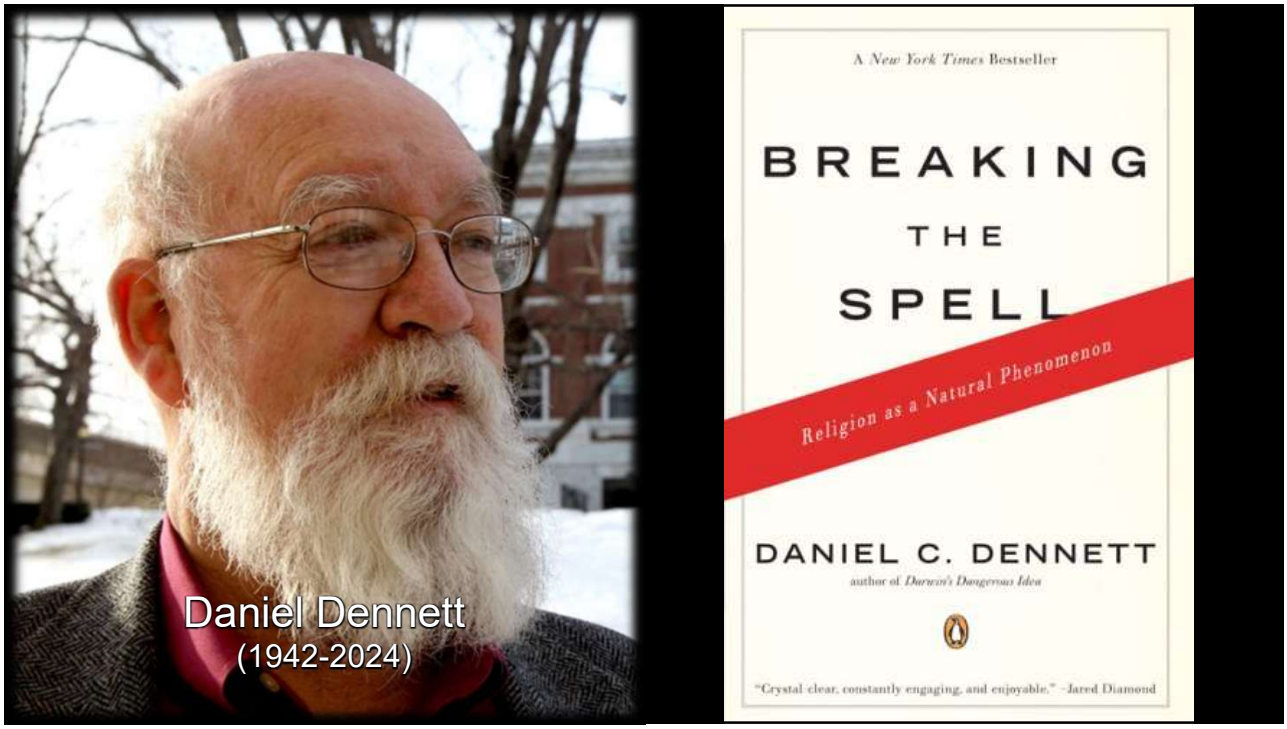
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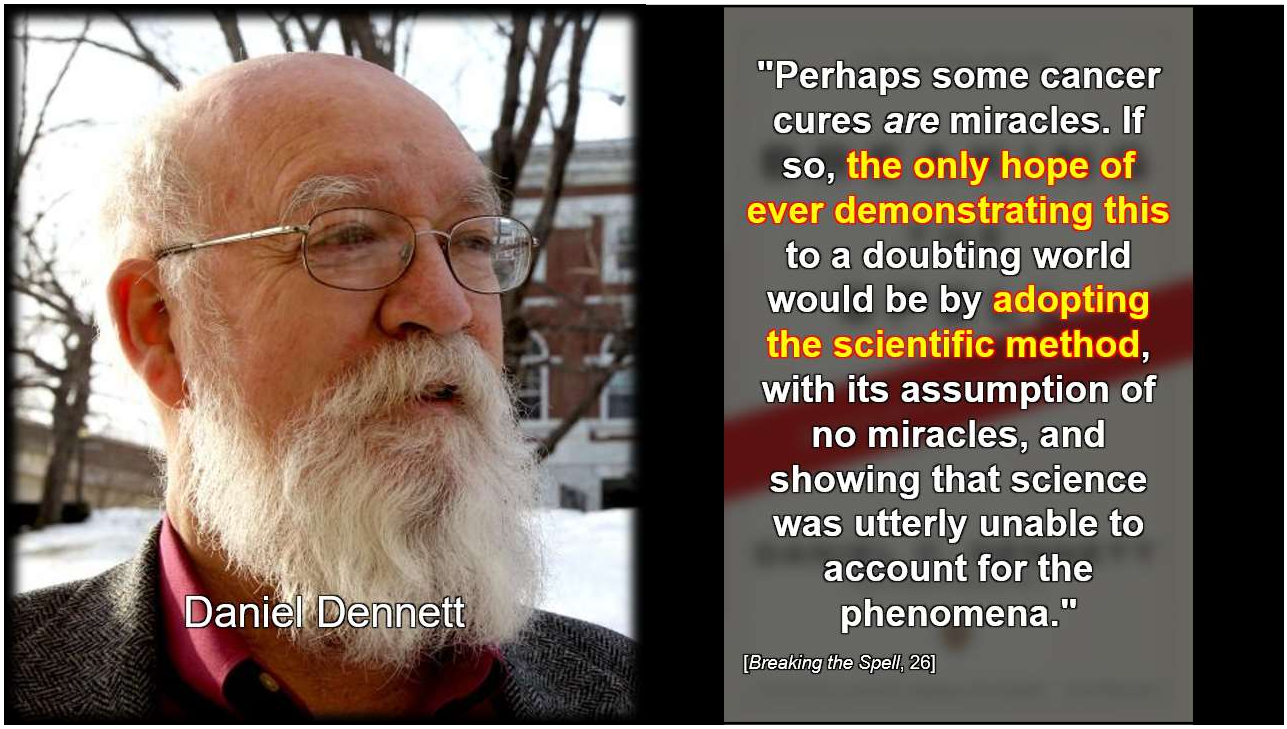
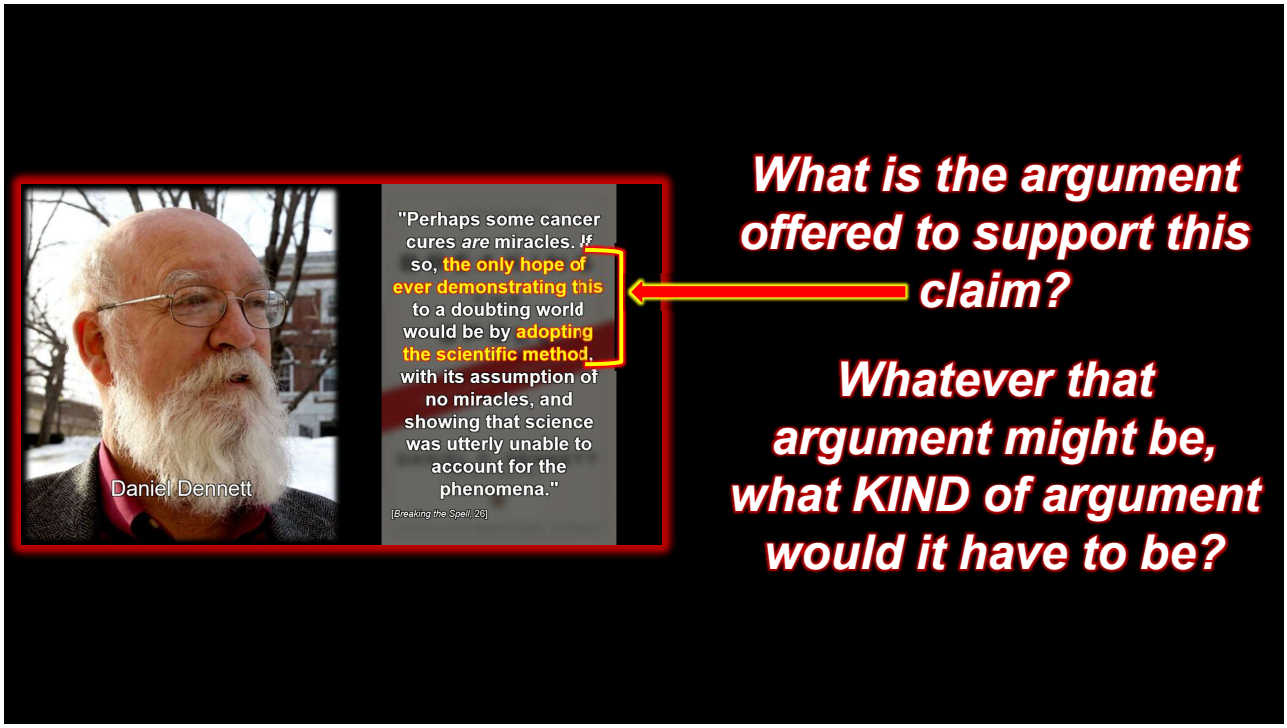
"Crystal clear, constantly engaging, and enjoyable." –Jared Diamond


Daniel Dennett
"Perhaps some cancer cures *are* miracles. If so, the only hope of ever demonstrating this to a doubting world would be by adopting the scientific method, with its assumption of no miracles, and showing that science was utterly unable to account for the phenomena."
[*Breaking the Spell*, 26]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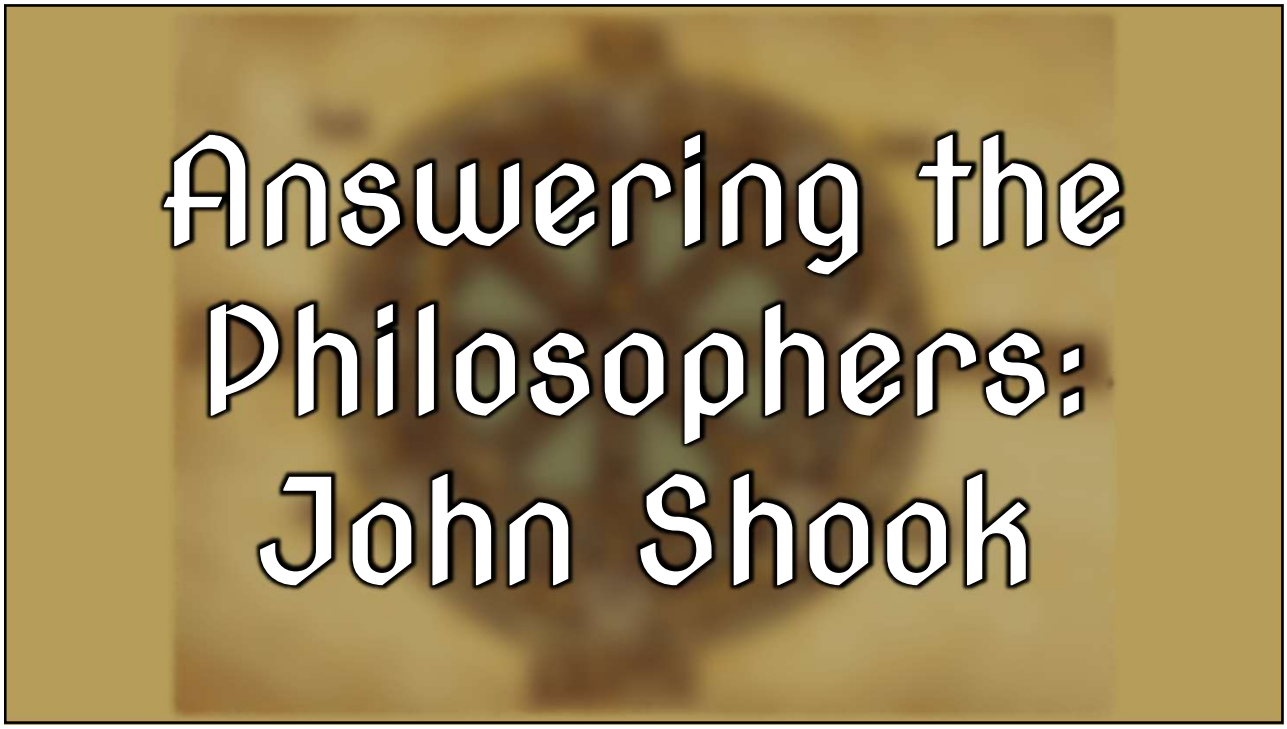
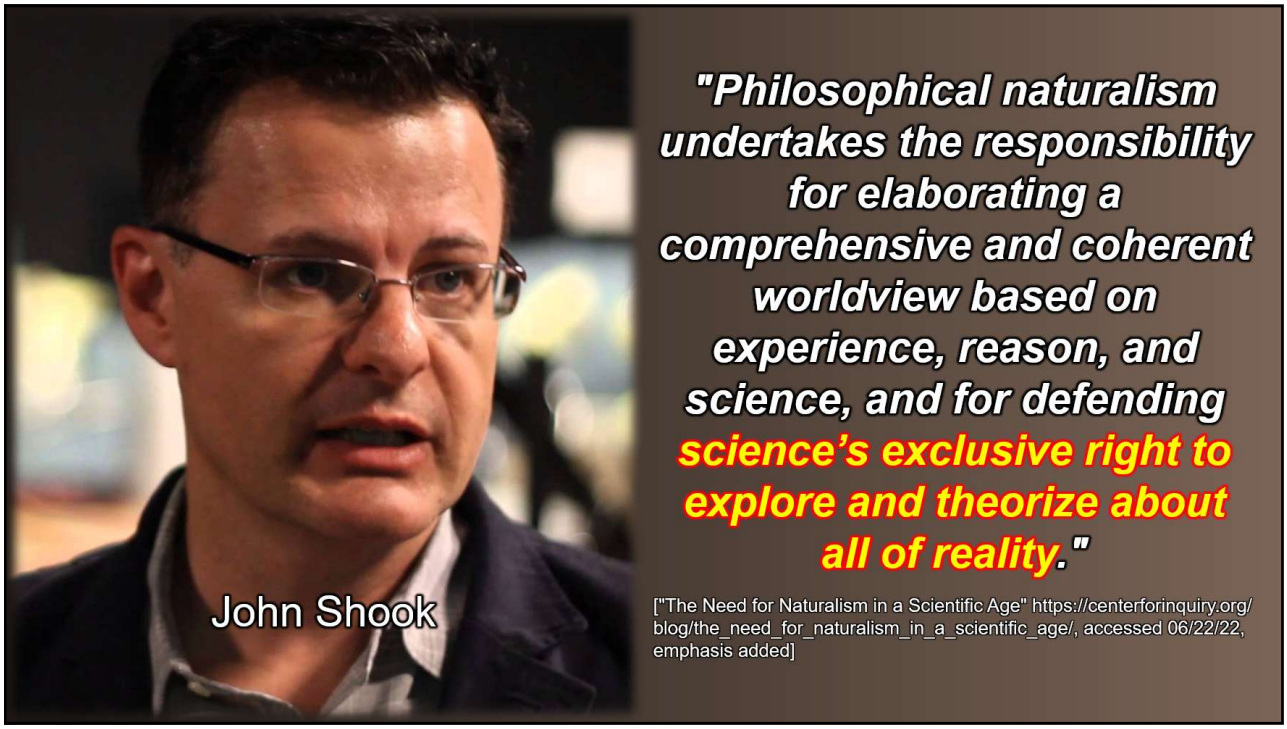
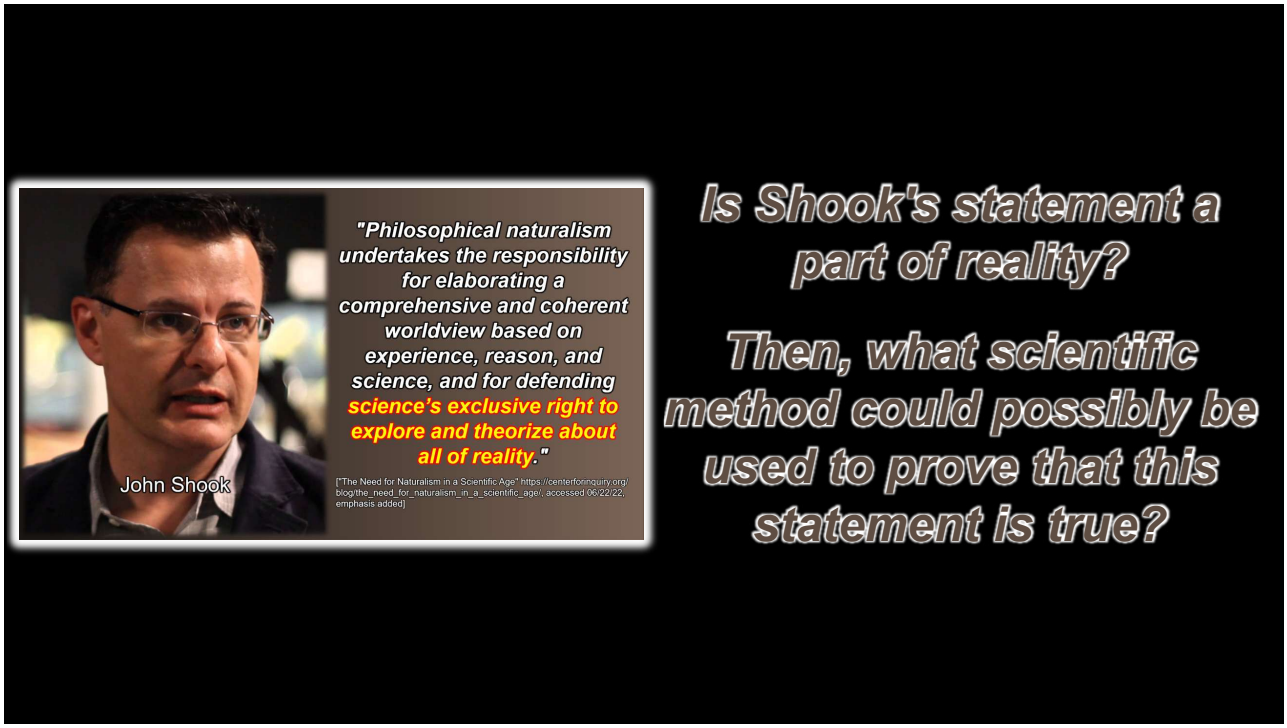
[*Breaking the Spell*, 26]
What is the argument offered to support this claim?
Whatever that argument might be, what KIND of argument would it have to be?


philosophical


Answering the
Philosophers:
John Shook


John Shook
"Philosophical naturalism undertakes the responsibility for elaborating a comprehensive and coherent worldview based on experience, reason, and science, and for defending science's exclusive right to explore and theorize about all of reality."
["The Need for Naturalism in a Scientific Age" https://centerforinquiry.org/blog/the_need_for_naturalism_in_a_scientific_age/, accessed 06/22/22, emphasis added]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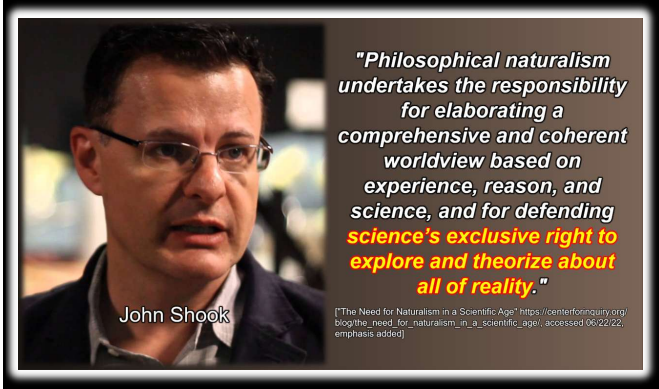
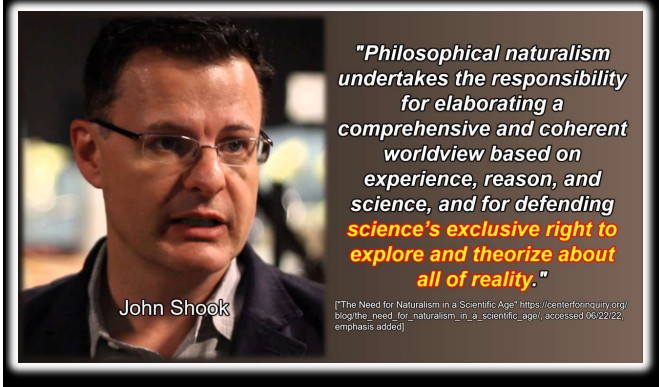
Is Shook's statement a part of reality?
Then, what scientific method could possibly be used to prove that this statement is true?



The fact is, there is no scientific method that could possibly prove Shook's statement.

The reason is because it is a philosophical statement.

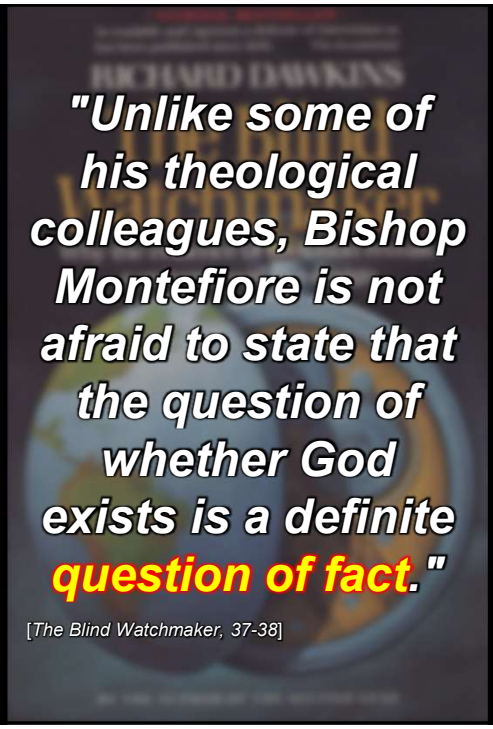


Thus, Shook is making a philosophical statement to the effect that philosophy has no right to explore any aspect of reality!

Answering the Scientists: Richard Dawkins

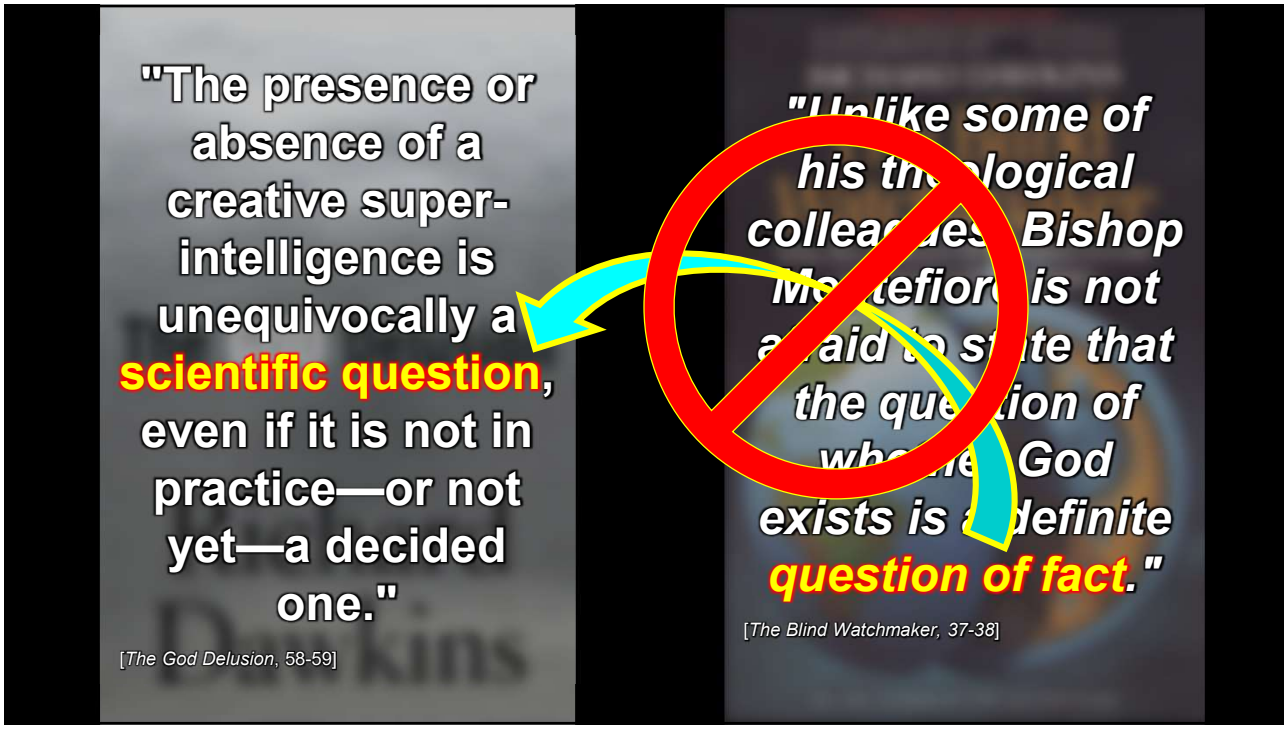
"The presence or absence of a creative super-intelligence is unequivocally a **scientific question**, even if it is not in practice—or not yet—a decided one."

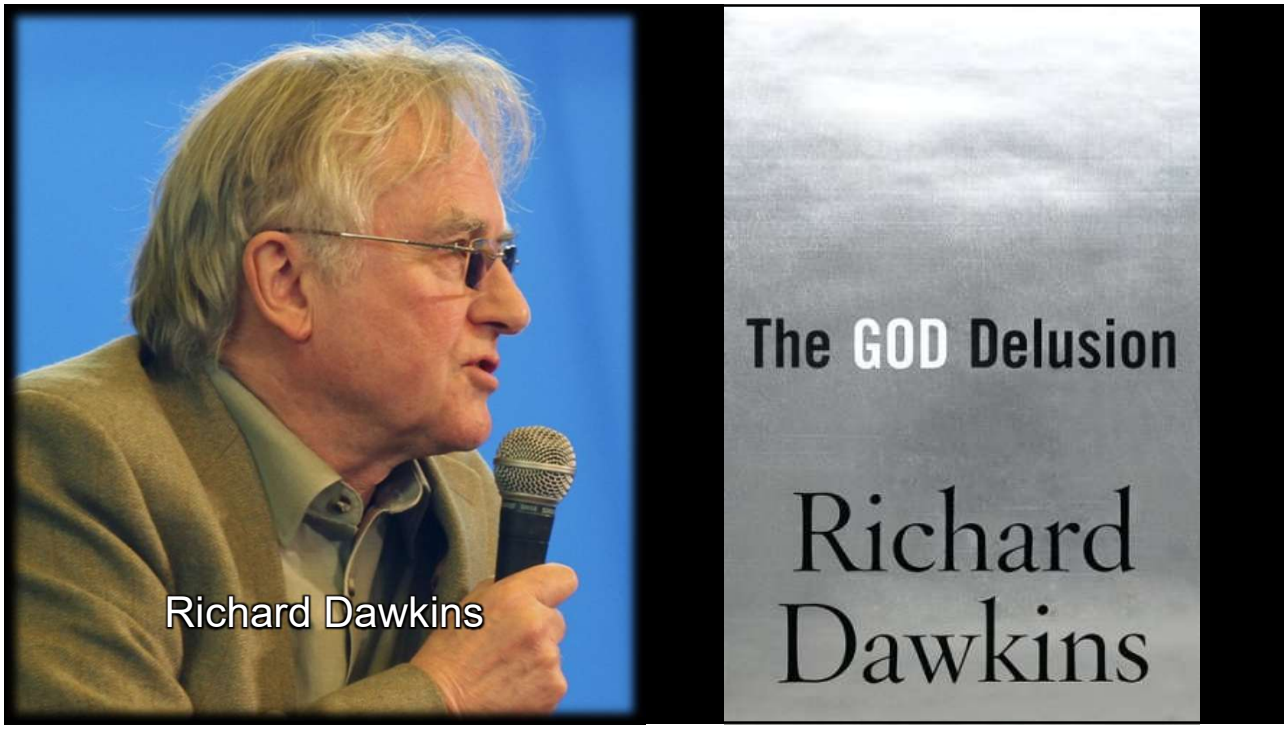
[*The God Delusion*, 58-59]

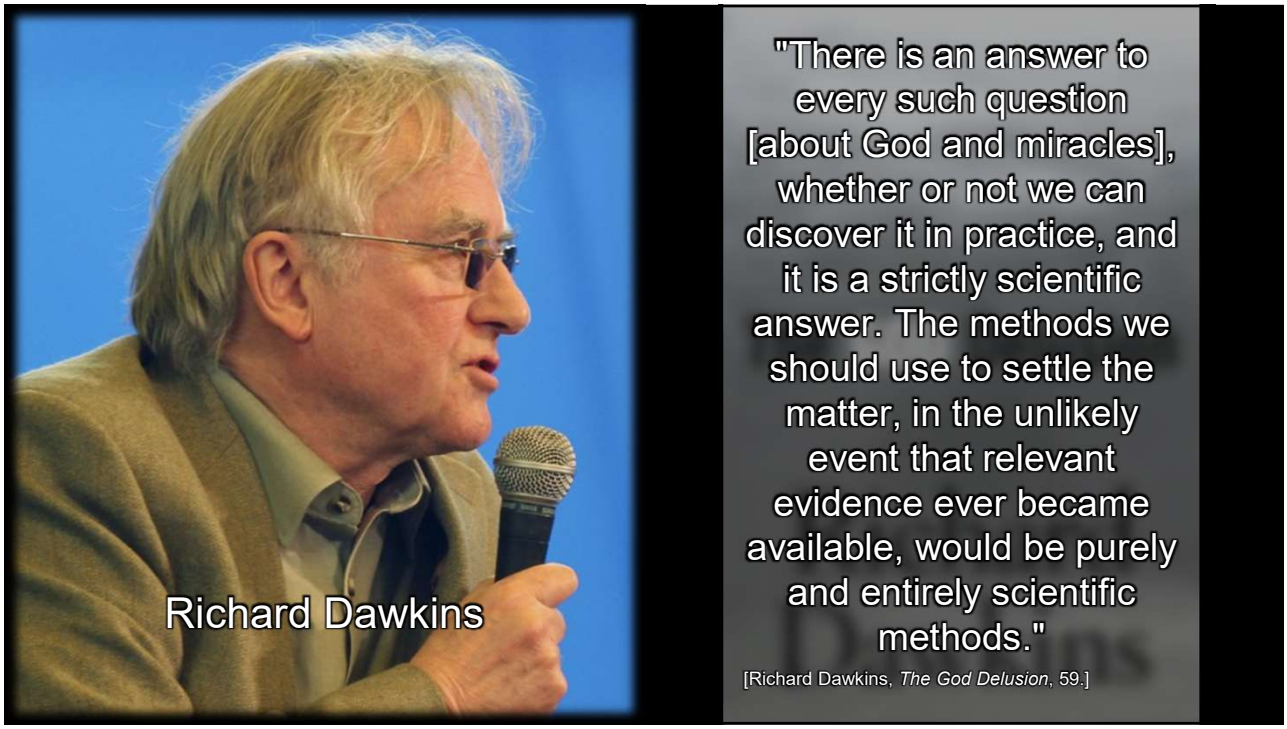


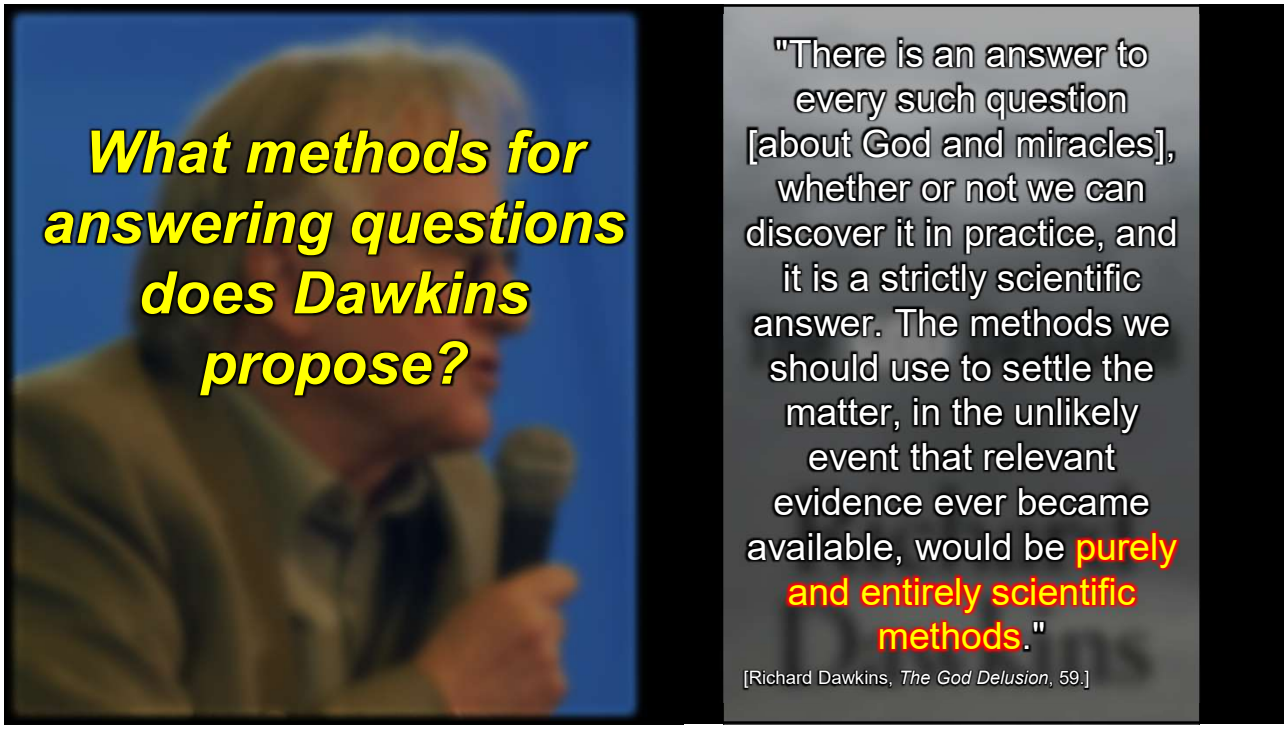
*"Unlike some of his theological colleagues, Bishop Montefiore is not afraid to state that the question of whether God exists is a definite **question of fact**."*

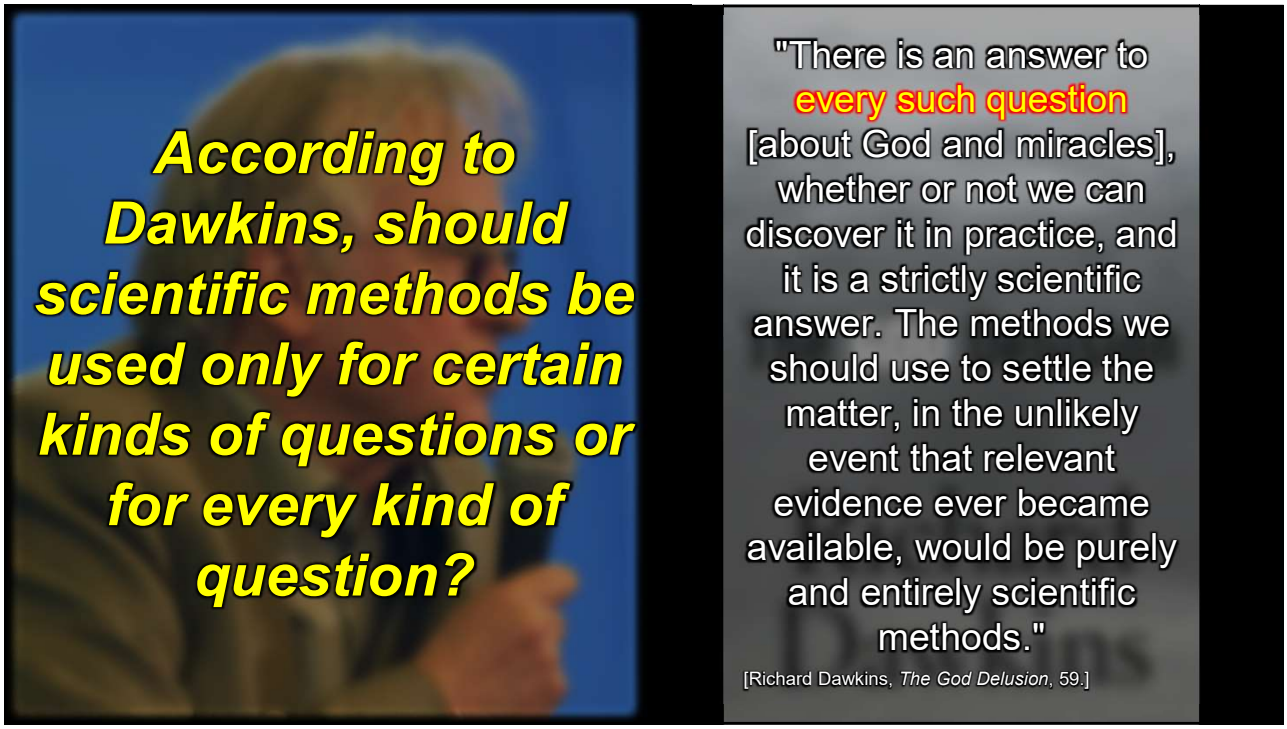
[*The Blind Watchmaker*, 37-38]


"The presence or absence of a creative super-intelligence is unequivocally a scientific question, even if it is not in practice—or not yet—a decided one."
[The God Delusion, 58-59]
"Unlike some of his theological colleagues, Bishop Mascall is not afraid to state that the question of whether God exists is a definite question of fact."
[The Blind Watchmaker, 37-38]


Richard Dawkins
The GOD Delusion
Richard Dawkins


Richard Dawkins
"There is an answer to every such question [about God and miracles], whether or not we can discover it in practice, and it is a strictly scientific answer. The methods we should use to settle the matter, in the unlikely event that relevant evidence ever became available, would be purely and entirely scientific methods."
[Richard Dawkins, *The God Delusion*, 59.]


What methods for answering questions does Dawkins propose?
"There is an answer to every such question [about God and miracles], whether or not we can discover it in practice, and it is a strictly scientific answer. The methods we should use to settle the matter, in the unlikely event that relevant evidence ever became available, would be purely and entirely scientific methods."
[Richard Dawkins, *The God Delusion*, 59.]


According to Dawkins, should scientific methods be used only for certain kinds of questions or for every kind of question?
"There is an answer to every such question [about God and miracles], whether or not we can discover it in practice, and it is a strictly scientific answer. The methods we should use to settle the matter, in the unlikely event that relevant evidence ever became available, would be purely and entirely scientific methods."
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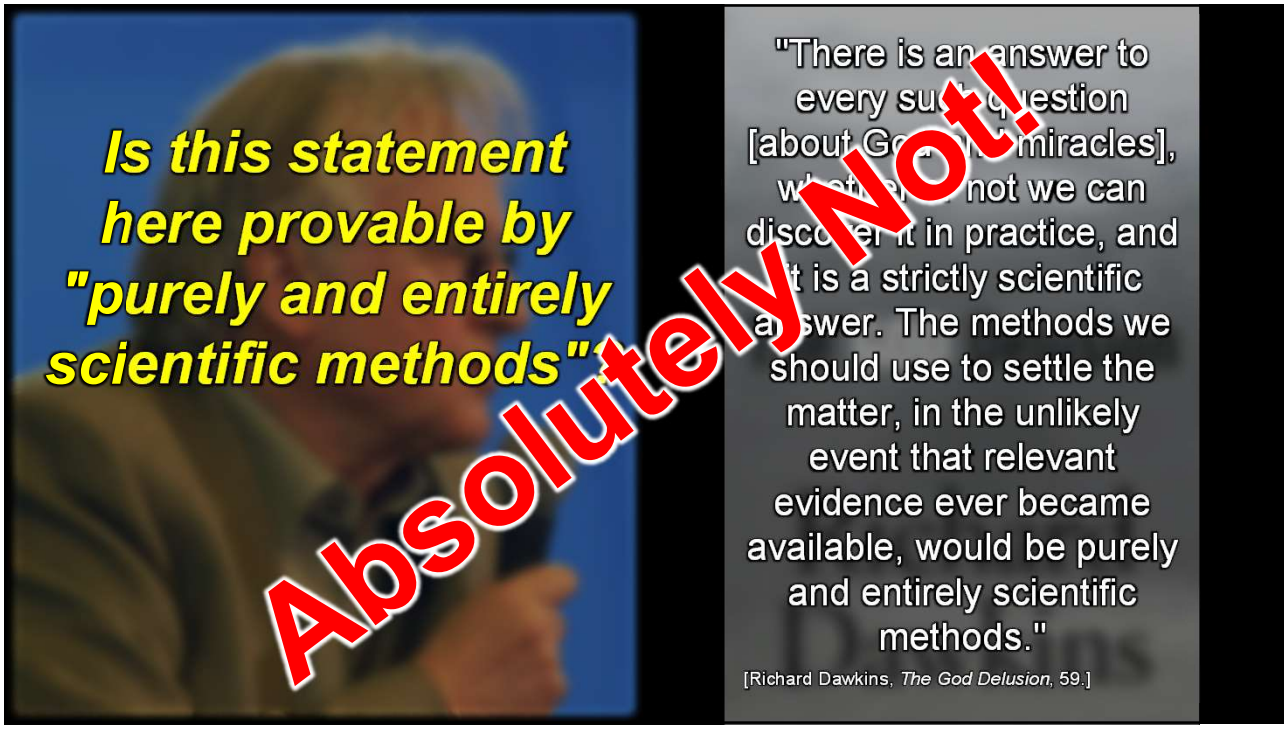
Is this statement here provable by "purely and entirely scientific methods"?
Absolutely Not!
"There is an answer to every such question [about God and miracles], whether or not we can discover it in practice, and it is a strictly scientific answer. The methods we should use to settle the matter, in the unlikely event that relevant evidence ever became available, would be purely and entirely scientific methods."
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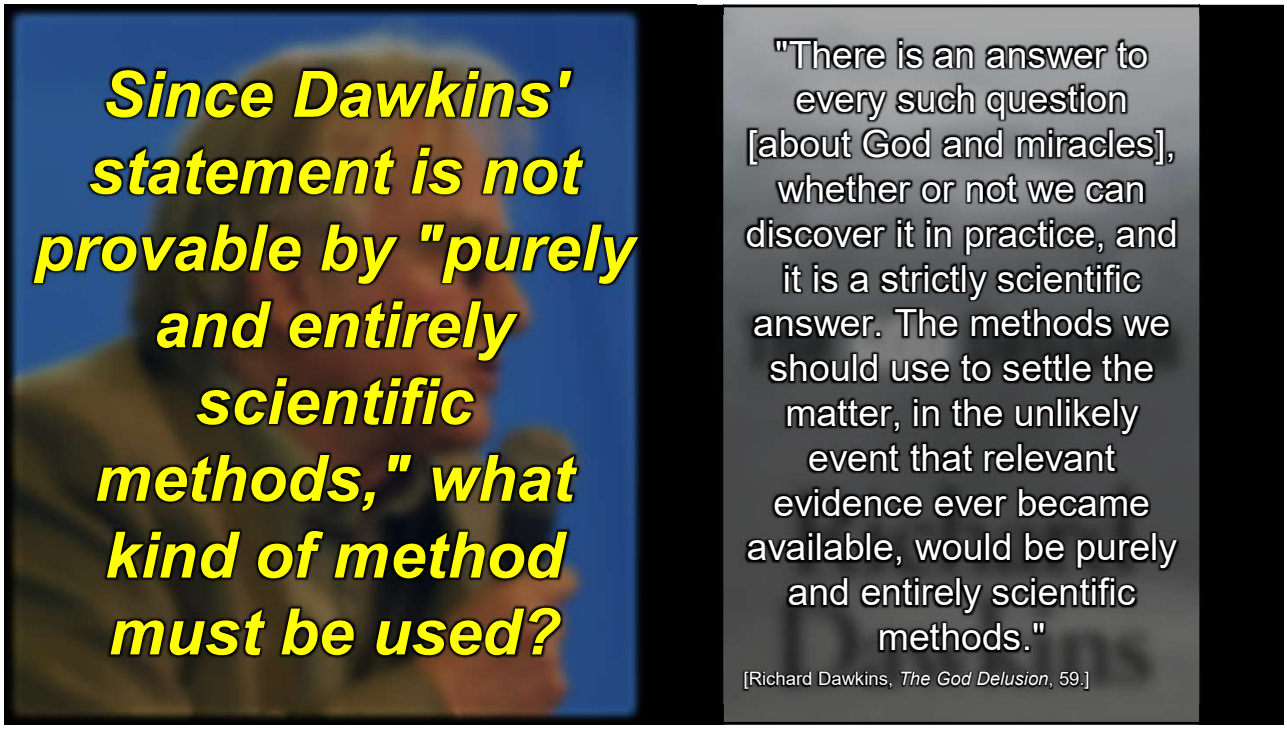
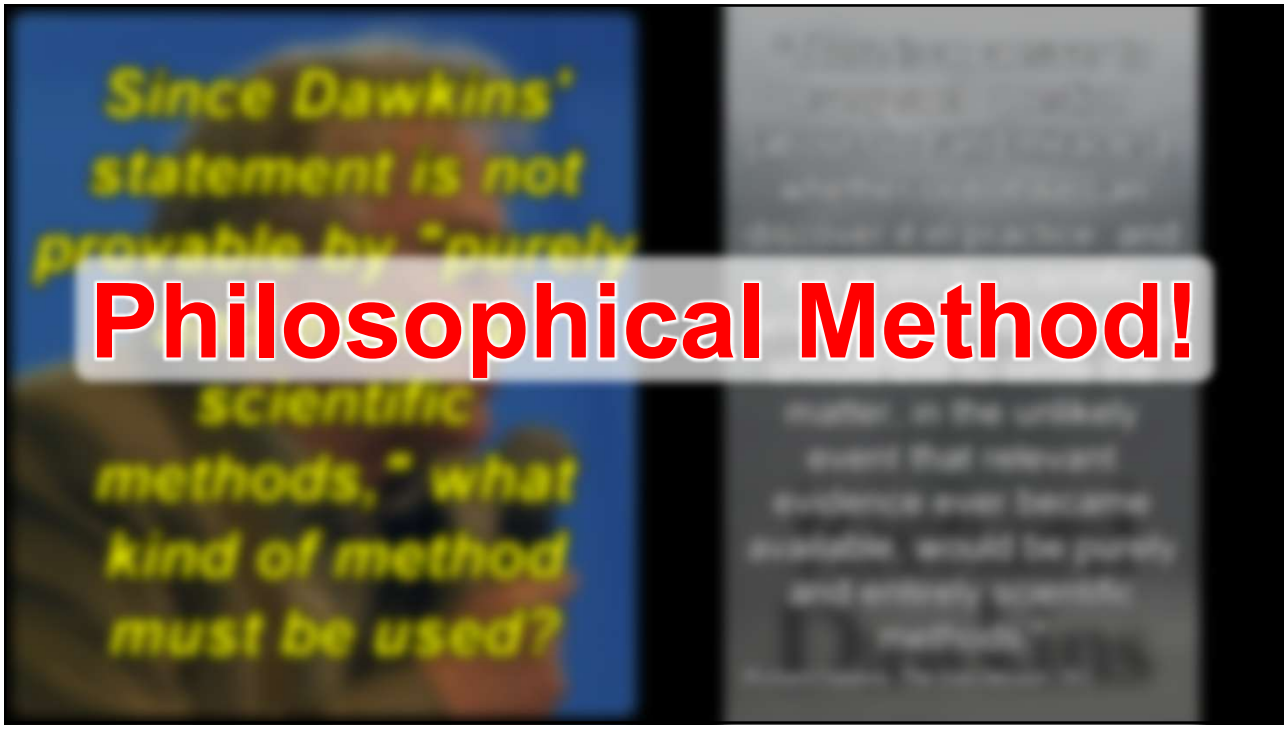
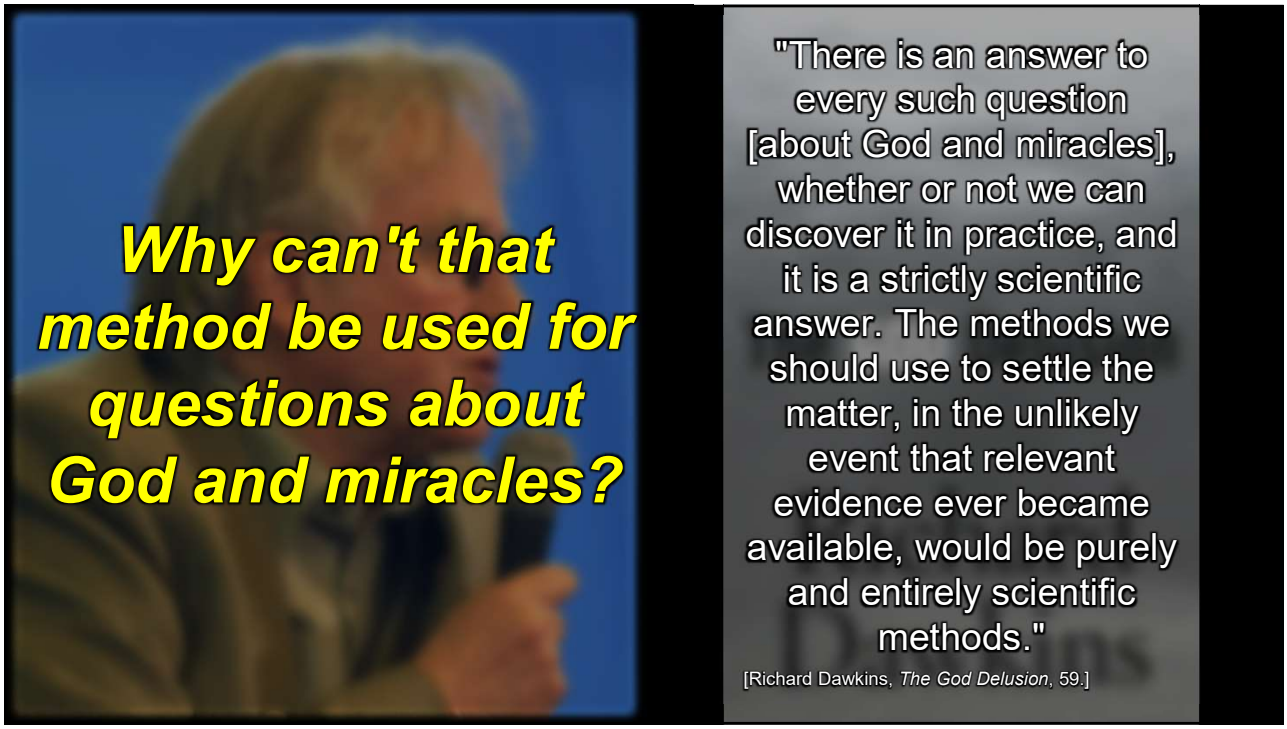
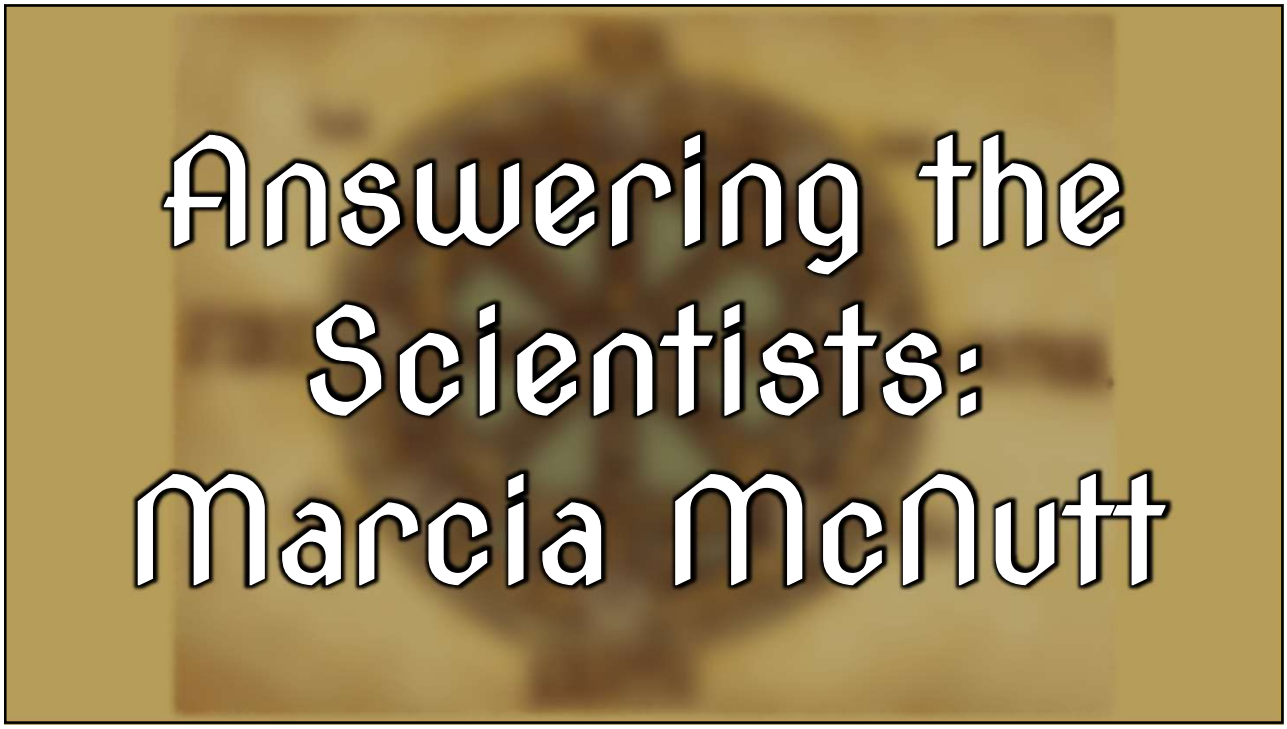
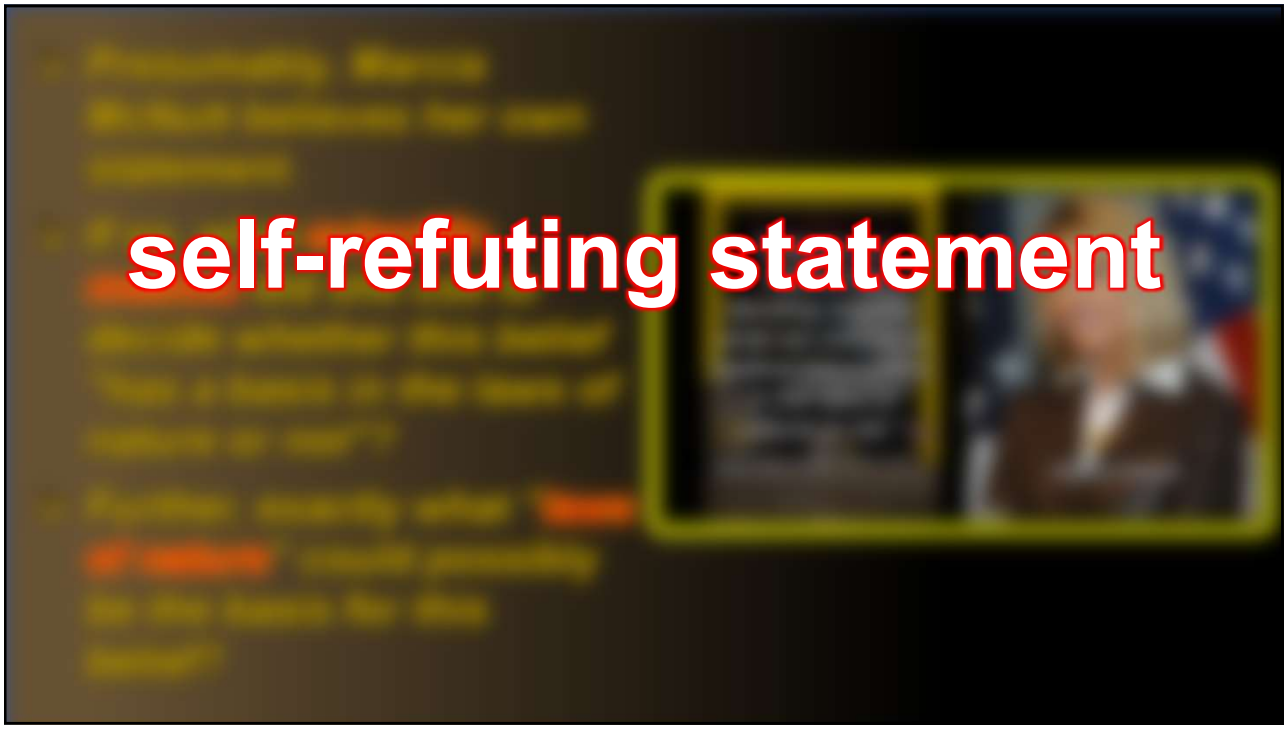

Since Dawkins' statement is not provable by "purely and entirely scientific methods," what kind of method must be used?
"There is an answer to every such question [about God and miracles], whether or not we can discover it in practice, and it is a strictly scientific answer. The methods we should use to settle the matter, in the unlikely event that relevant evidence ever became available, would be purely and entirely scientific methods."
[Richard Dawkins, *The God Delusion*, 59.]

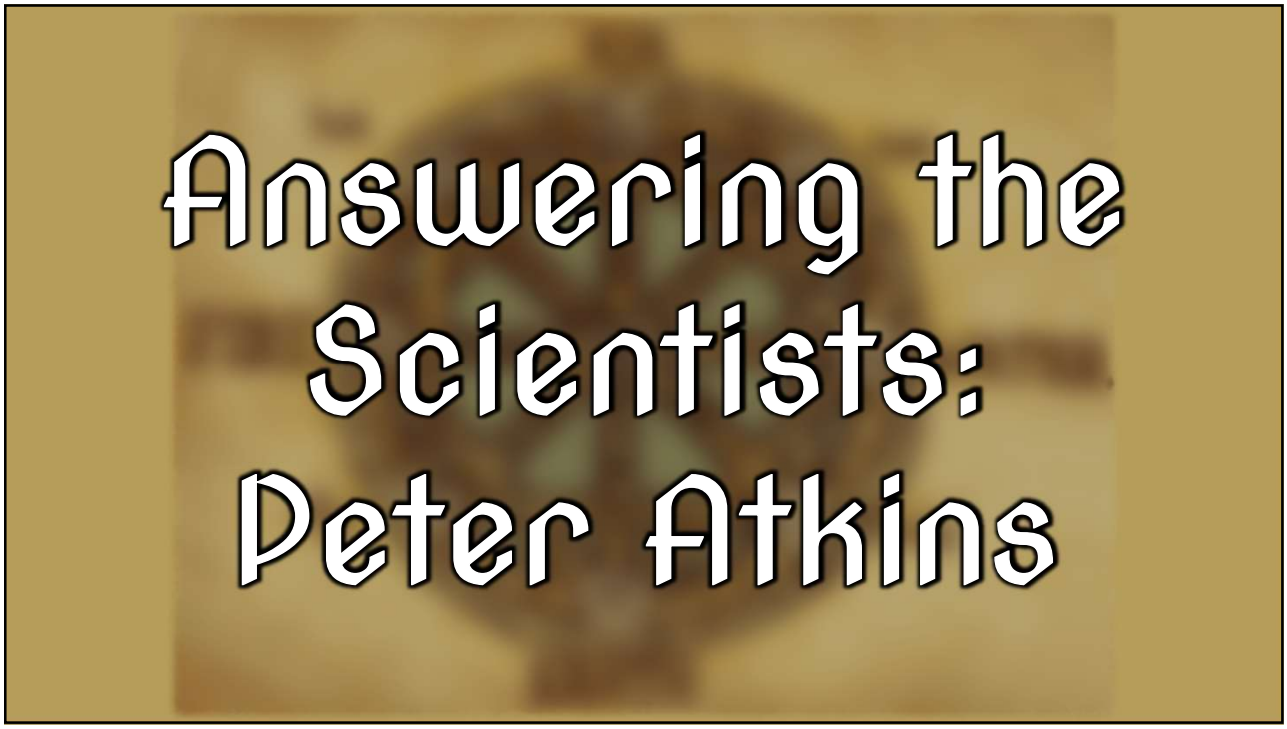

Philosophical Method!

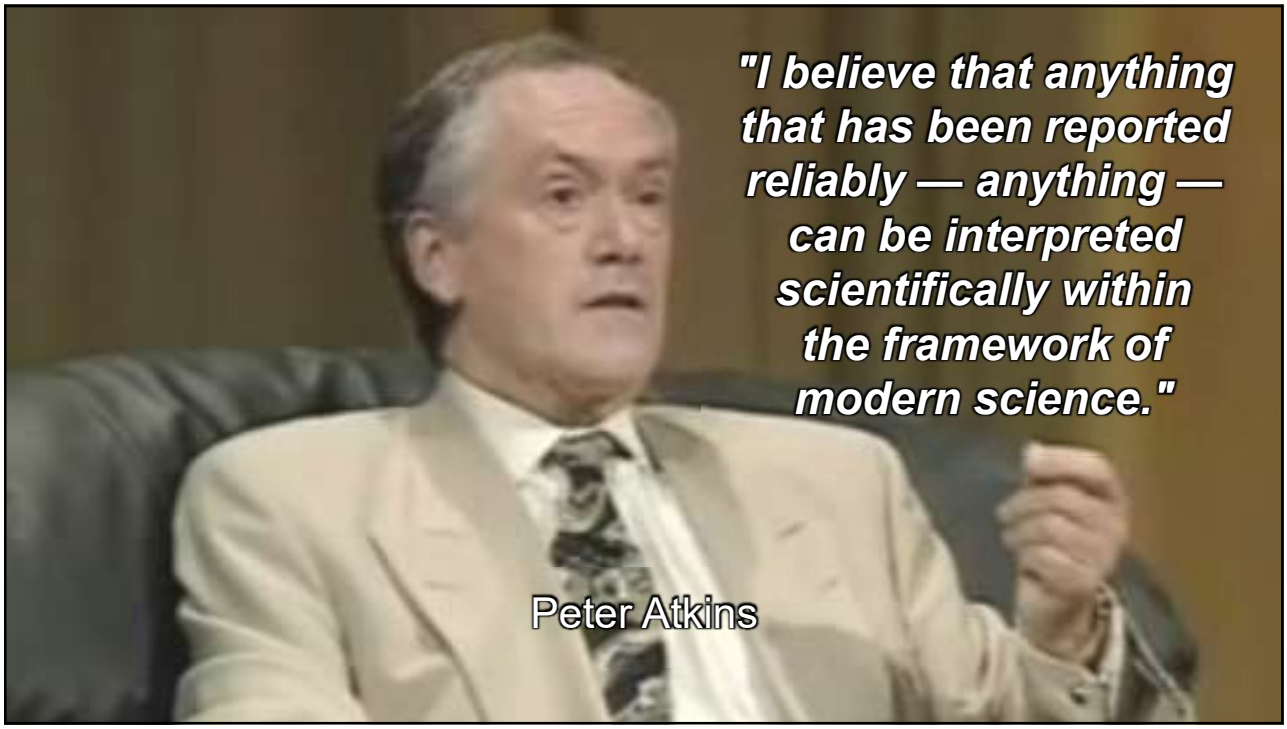

Why can't that method be used for questions about God and miracles?
"There is an answer to every such question [about God and miracles], whether or not we can discover it in practice, and it is a strictly scientific answer. The methods we should use to settle the matter, in the unlikely event that relevant evidence ever became available, would be purely and entirely scientific methods."
[Richard Dawkins, *The God Delusion*, 59.]

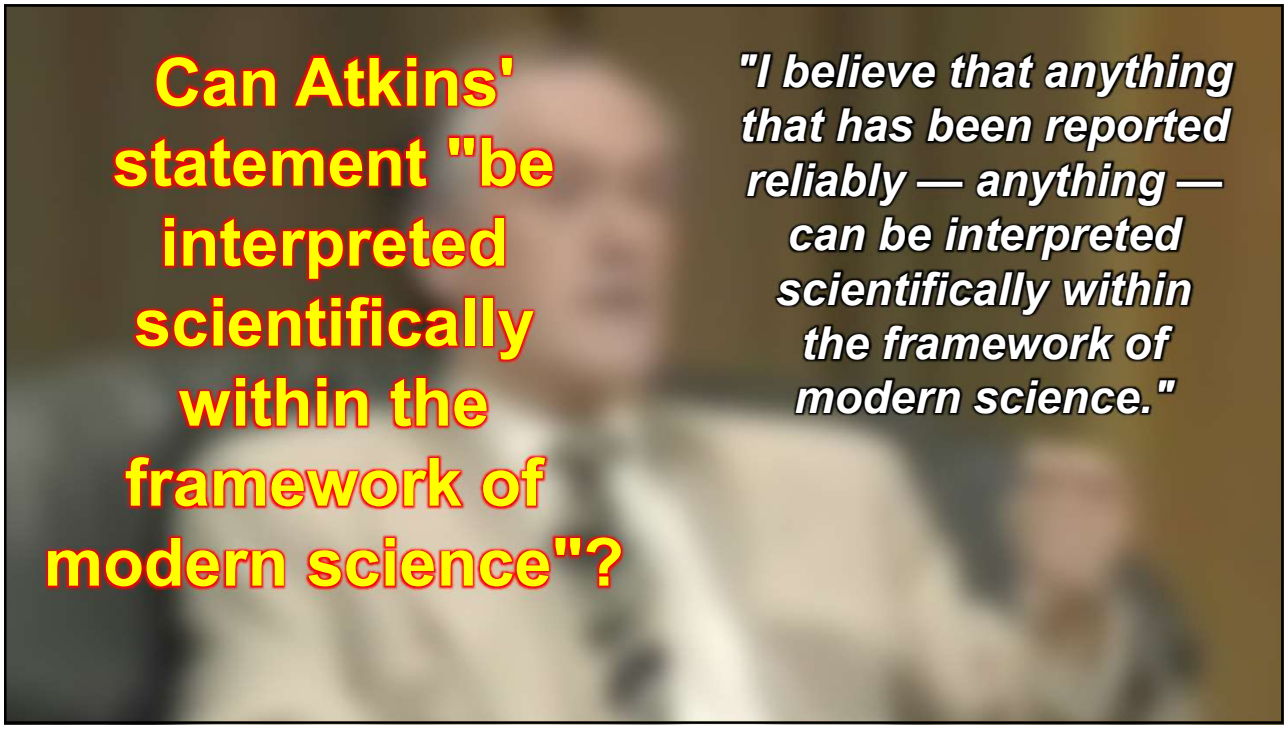

Answering the Scientists:
Marcia McNutt

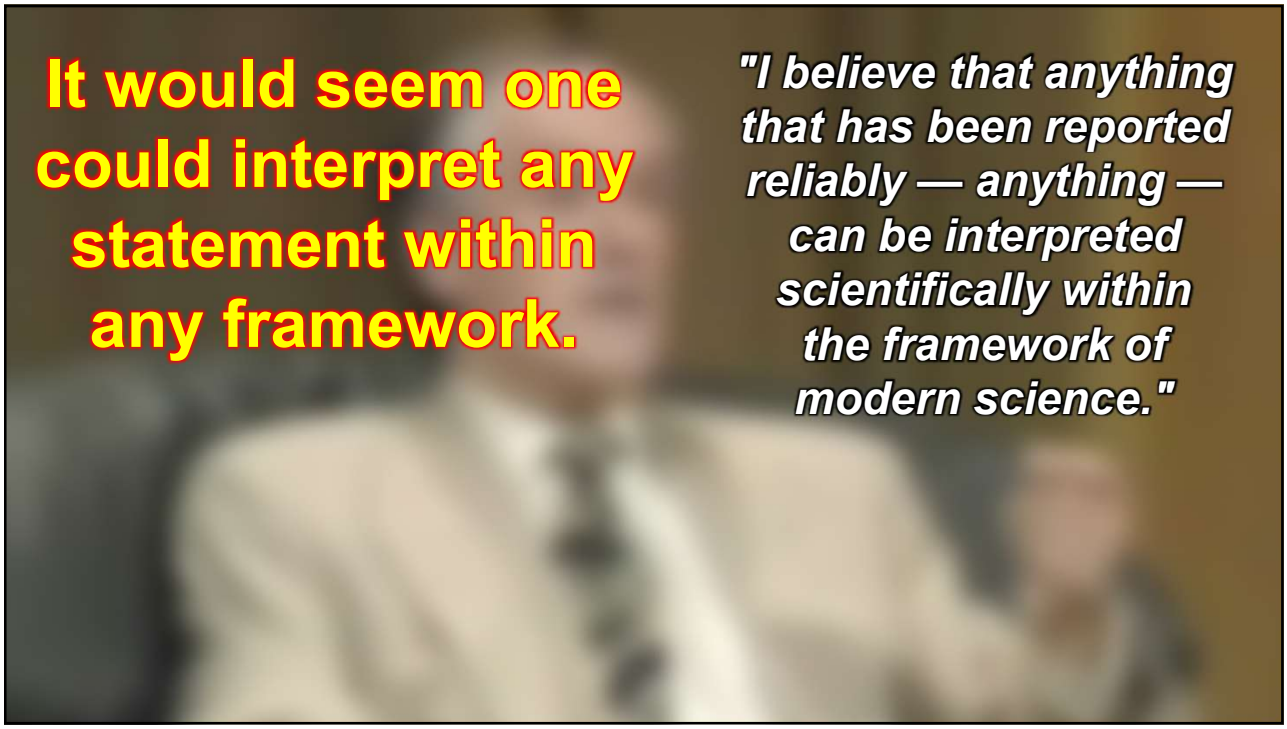
- ***Presumably, Marcia McNutt believes her own statement.***
- ***If so, what scientific method did she use to decide whether this belief "has a basis in the laws of nature or not"?***
- ***Further, exactly what "laws of nature" could possibly be the basis for this belief?***

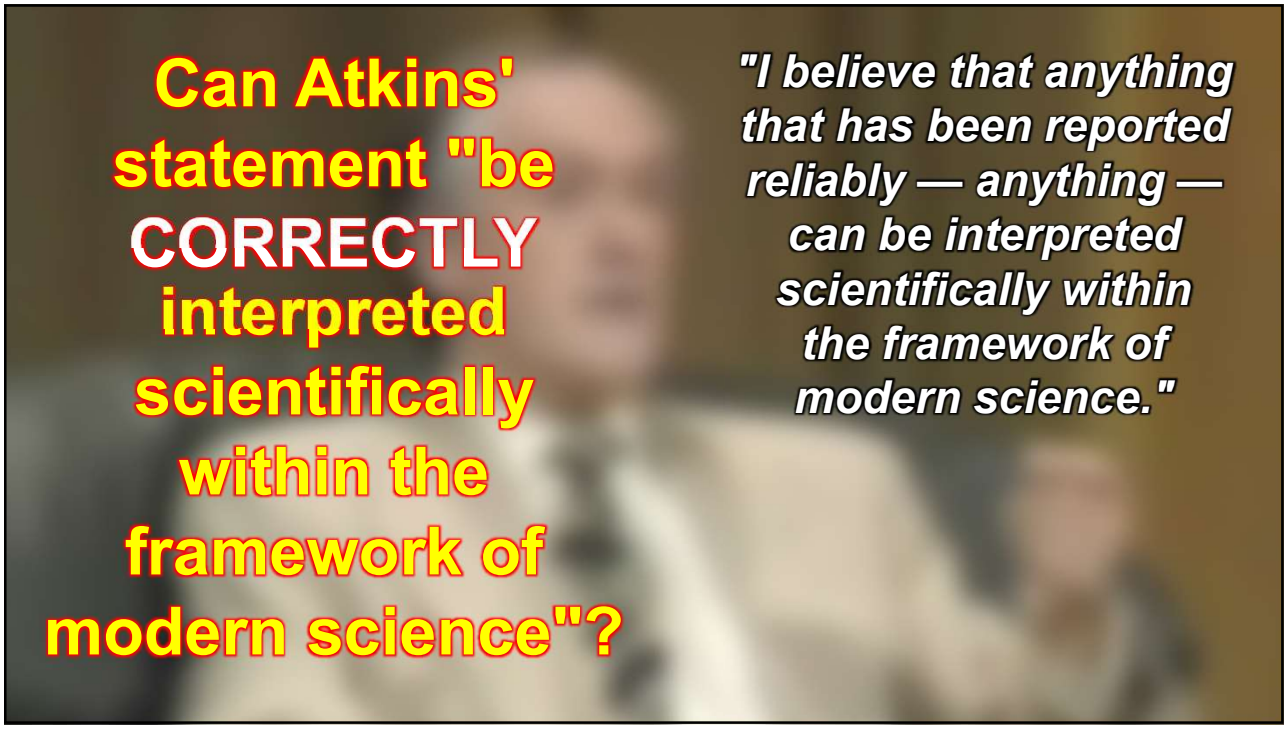

self-refuting statement


Answering the Scientists:
Peter Atkins

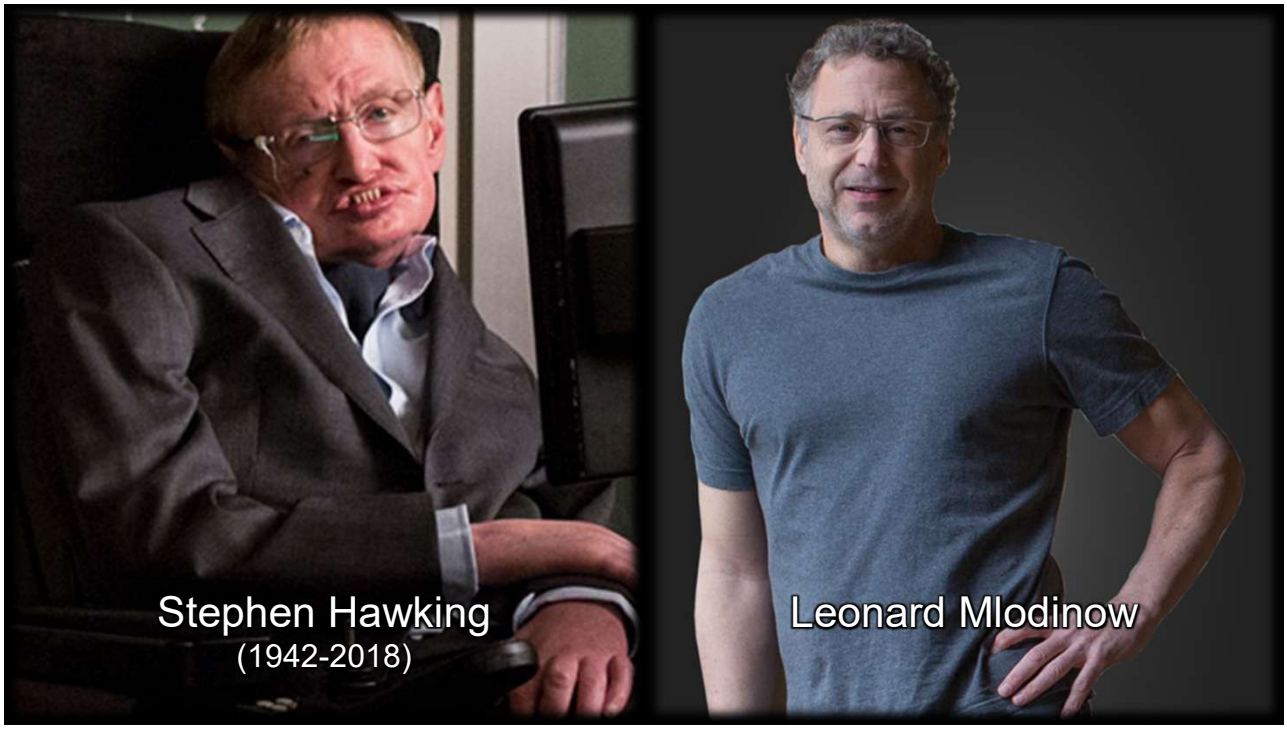

"I believe that anything that has been reported reliably — anything — can be interpreted scientifically within the framework of modern science."
Peter Atkins

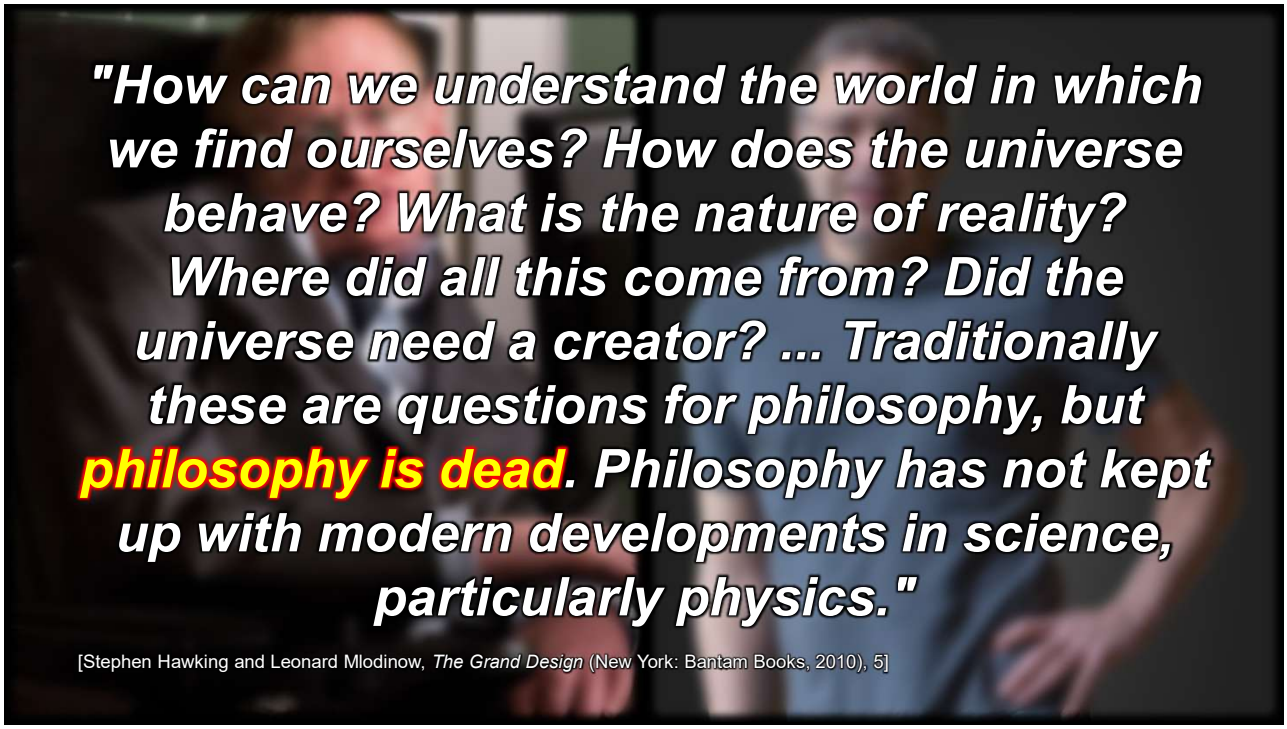

Can Atkins' statement "be interpreted scientifically within the framework of modern science"?
"I believe that anything that has been reported reliably — anything — can be interpreted scientifically within the framework of modern science."

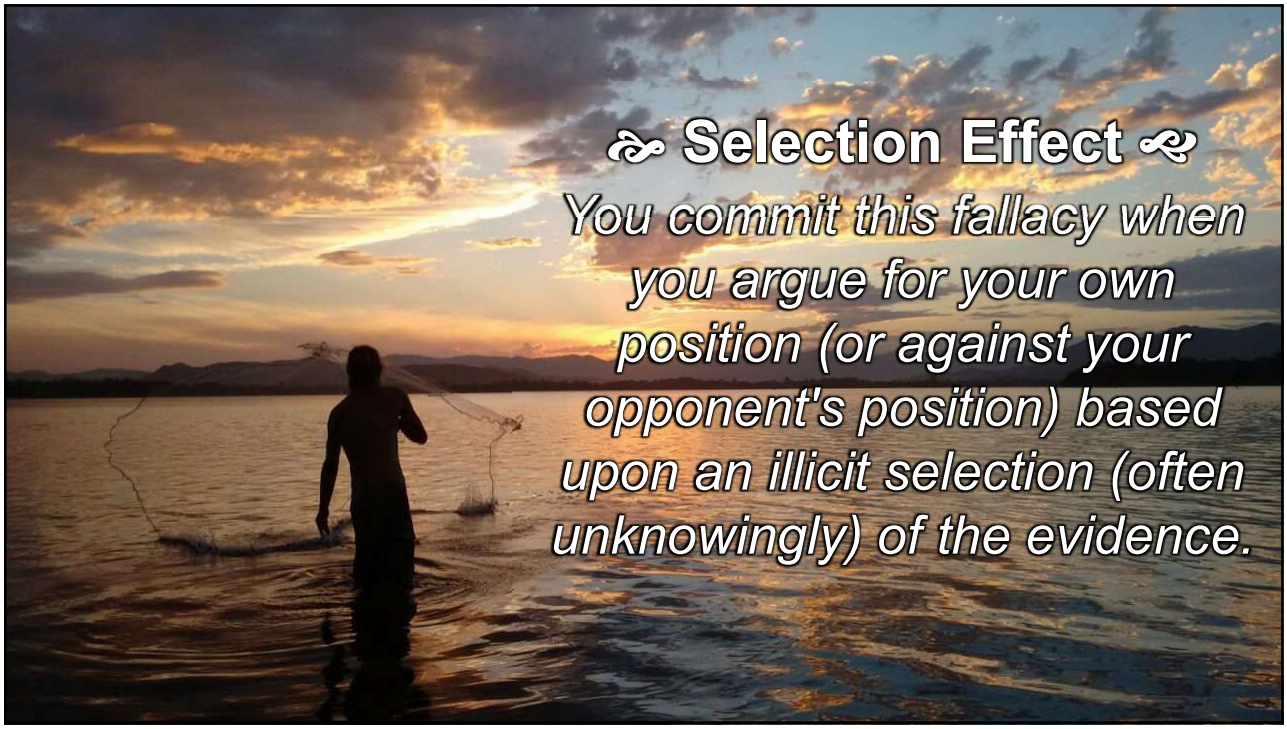

It would seem one could interpret any statement within any framework.
"I believe that anything that has been reported reliably — anything — can be interpreted scientifically within the framework of modern science."

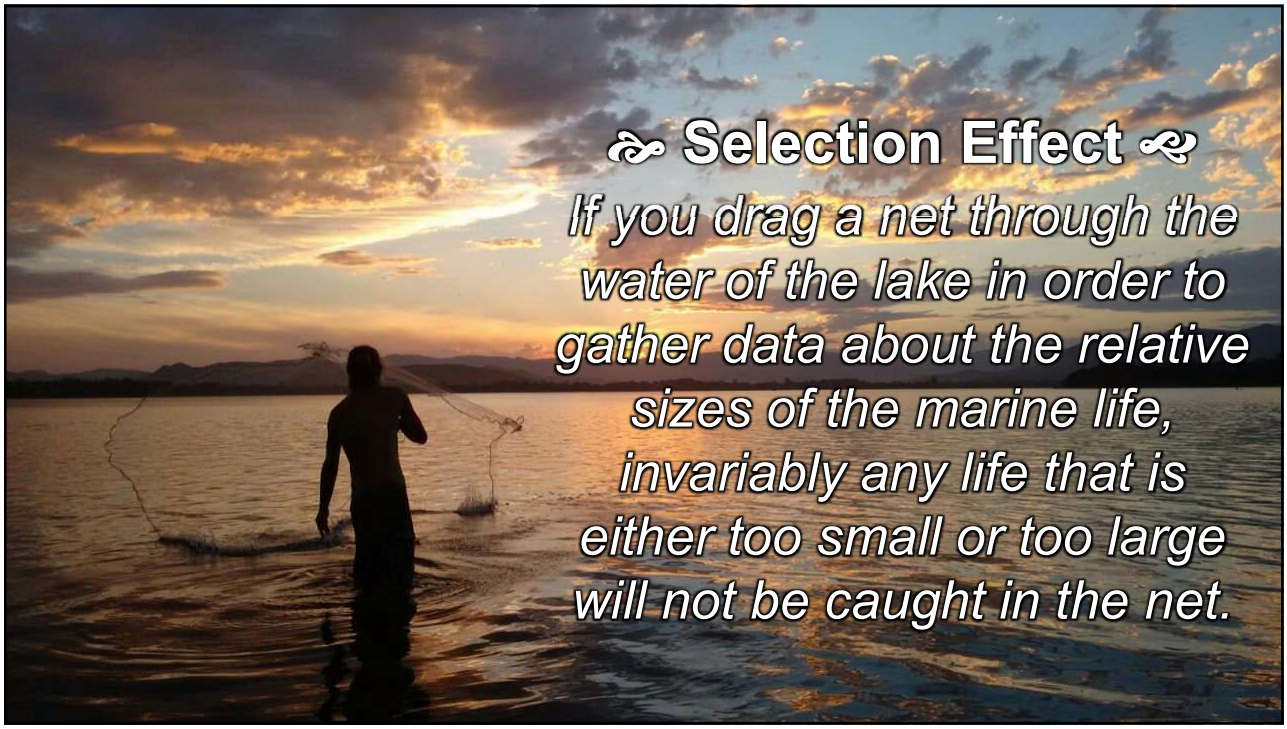

Can Atkins' statement "be CORRECTLY interpreted scientifically within the framework of modern science"?
"I believe that anything that has been reported reliably — anything — can be interpreted scientifically within the framework of modern science."

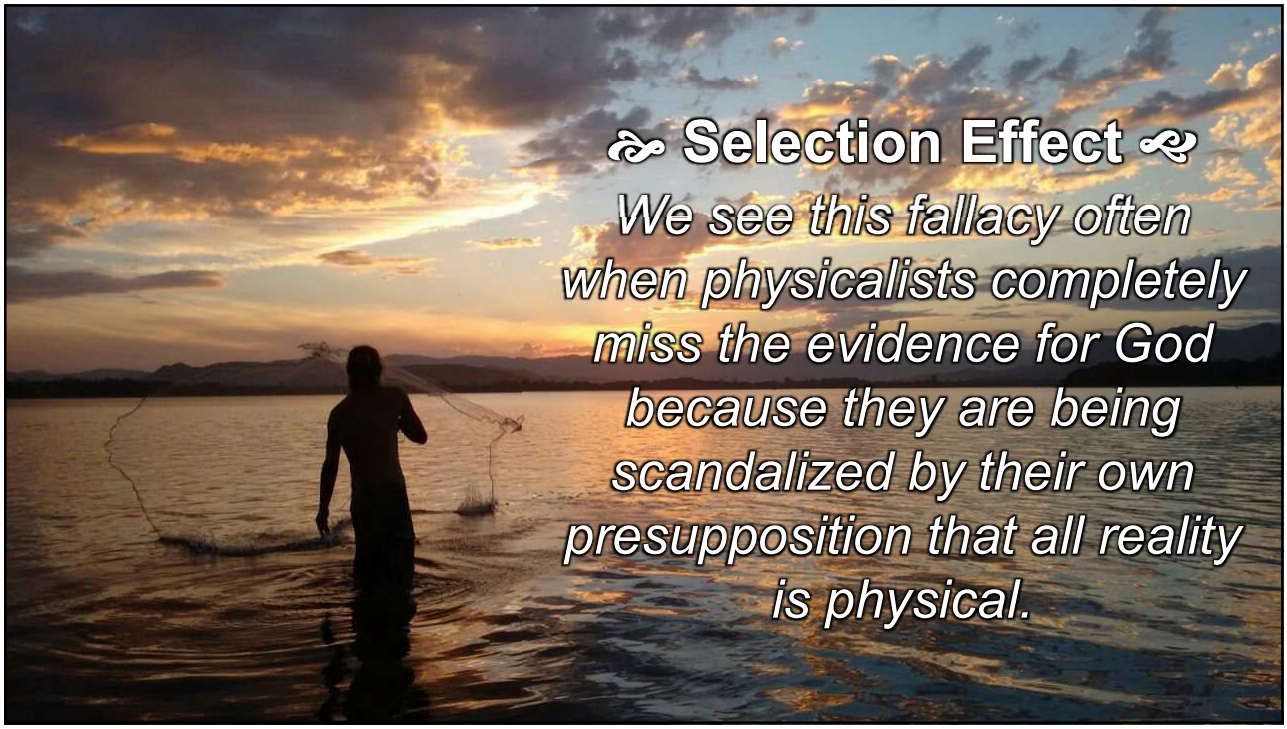
Answering the Scientists: Hawking and Mlodinow

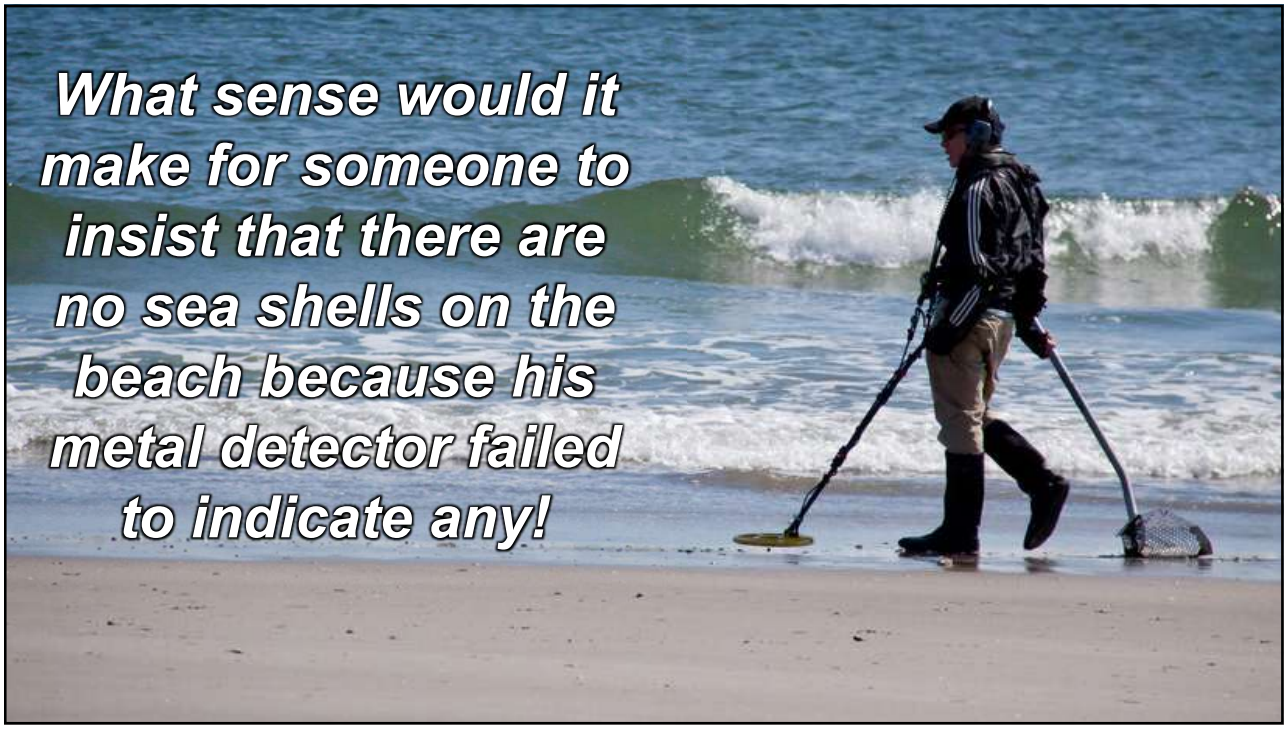



"How can we understand the world in which we find ourselves? How does the universe behave? What is the nature of reality? Where did all this come from? Did the universe need a creator? ... Traditionally these are questions for philosophy, but philosophy is dead. Philosophy has not kept up with modern developments in science, particularly physics."
[Stephen Hawking and Leonard Mlodinow, The Grand Design (New York: Bantam Books, 2010), 5]


Selection Effect
You commit this fallacy when you argue for your own position (or against your opponent's position) based upon an illicit selection (often unknowingly) of the evidence.


Selection Effect
If you drag a net through the water of the lake in order to gather data about the relative sizes of the marine life, invariably any life that is either too small or too large will not be caught in the net.


Selection Effect
We see this fallacy often when physicalists completely miss the evidence for God because they are being scandalized by their own presupposition that all reality is physical.


What sense would it make for someone to insist that there are no sea shells on the beach because his metal detector failed to indicate any!


So, what good is philosophy?

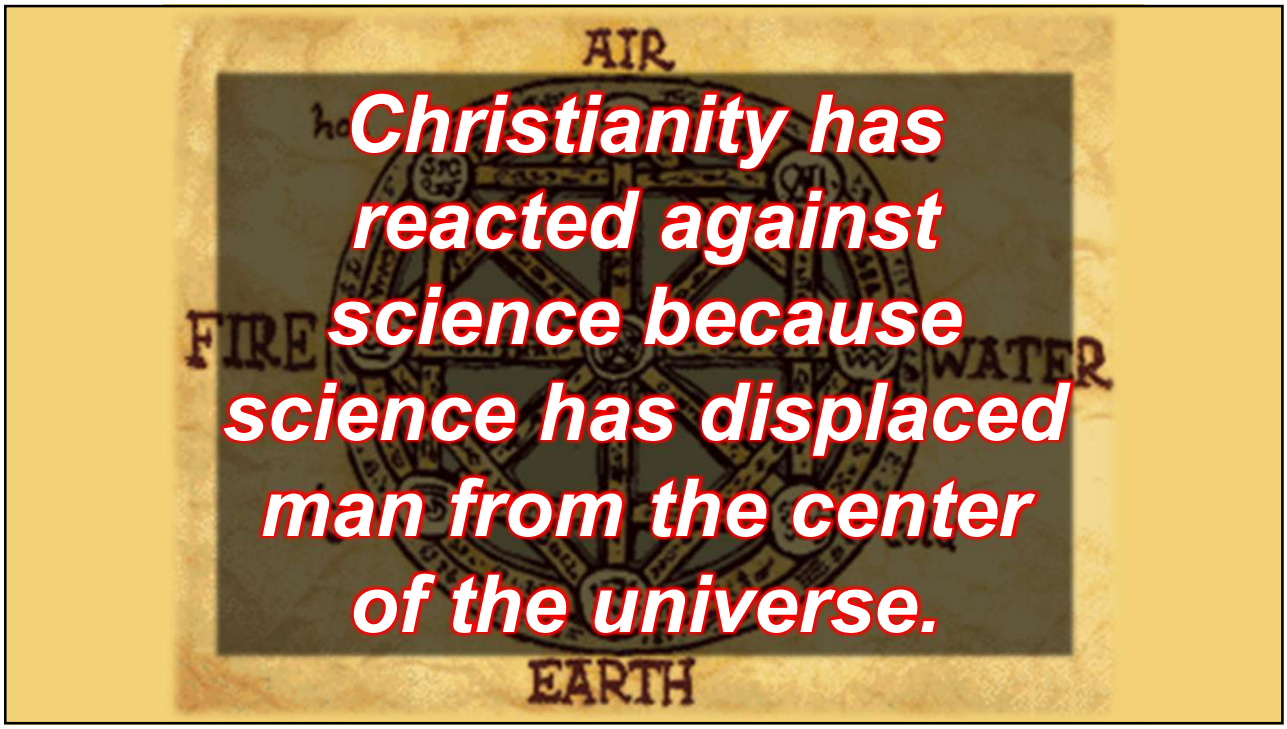

I don't know. What good is science?

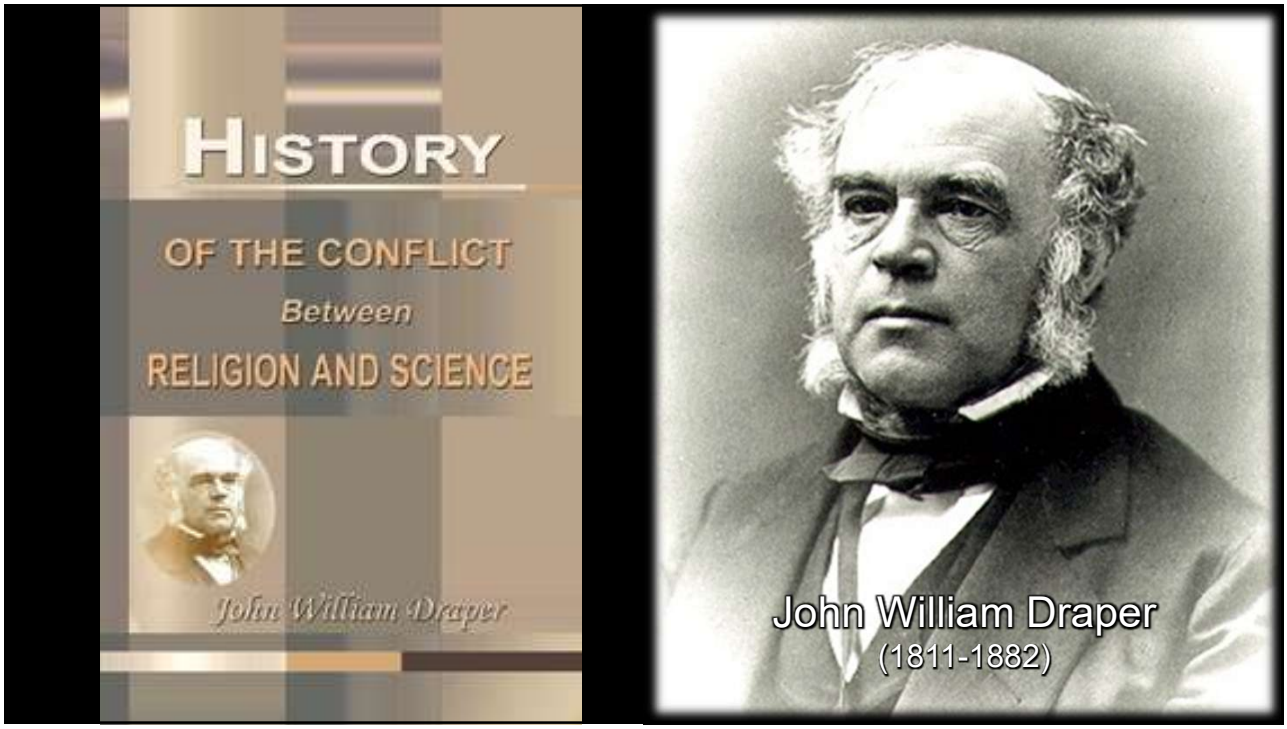

Well, science ....

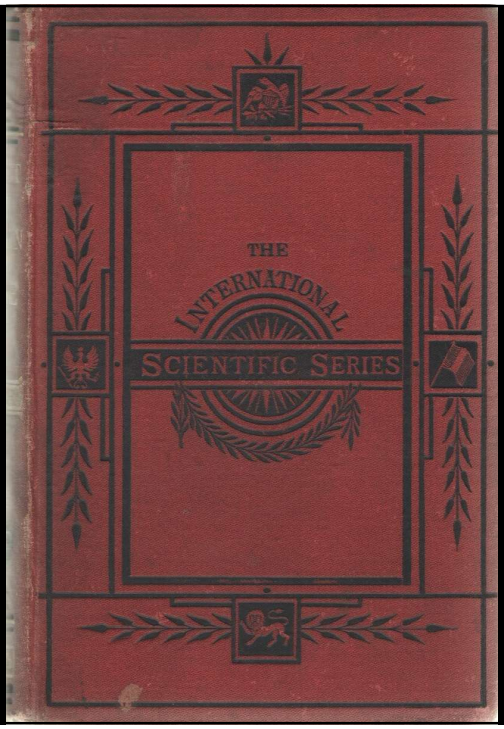

Ah! Now you're doing philosophy!

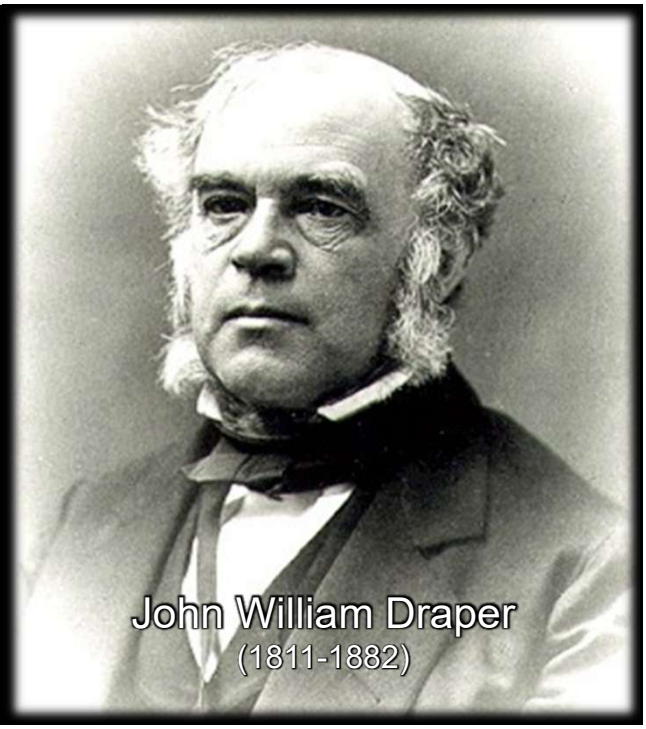

AIR
hot
wet
FIRE
WATER
dry
cold
EARTH

Argument


AIR
FIRE
WATER
EARTH
Christianity has reacted against science because science has displaced man from the center of the universe.


HISTORY
OF THE CONFLICT
Between
RELIGION AND SCIENCE
John William Draper
John William Draper
(1811-1882)





Born in England, but settled in Virginia

1st President of the American Chemical Society

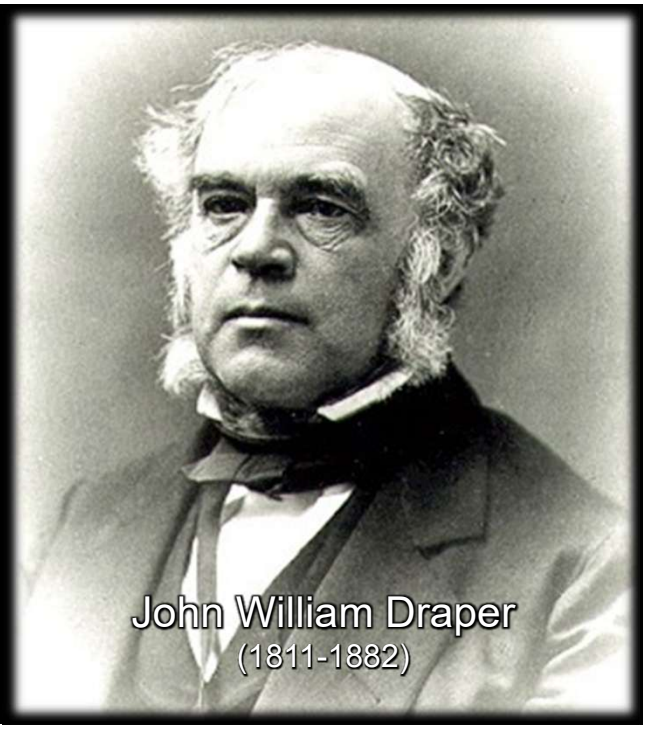
A founder of the New York University School of Medicine

Taught chemistry at New York University from 1840-1850

Made significant advances in photochemistry

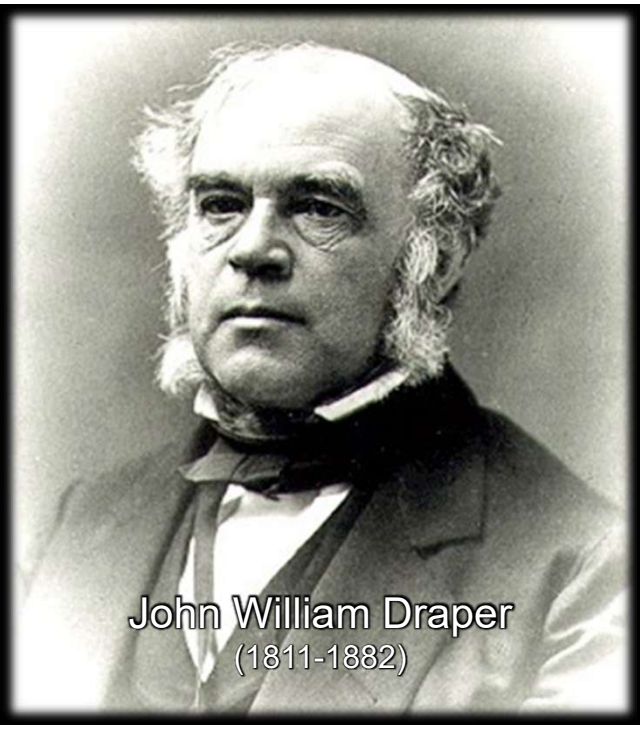
1st person to photograph an astronomical object (Moon)

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



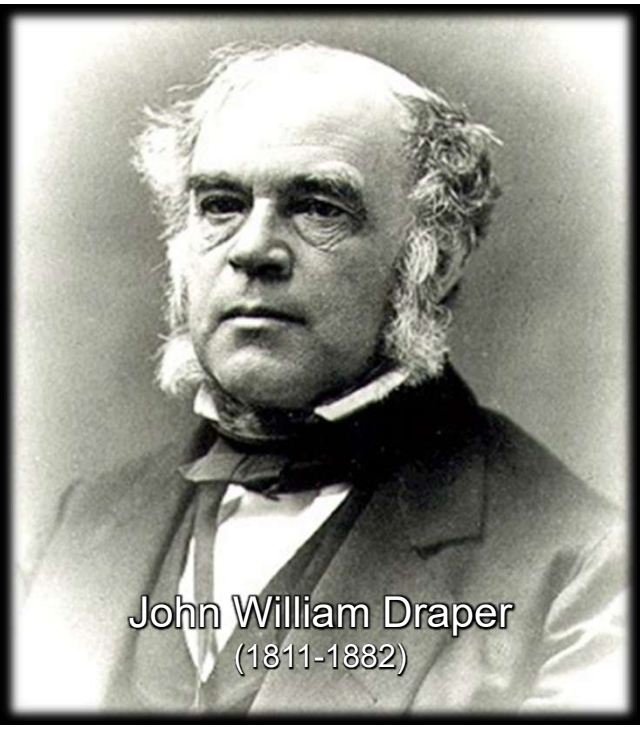
"In thus denouncing the Copernican system as being in contradiction to revelation, the ecclesiastical authorities were doubtless deeply moved by inferential considerations. To dethrone the earth from her central dominating position, to give her many equals and not a few superious, seem to diminish her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

[Draper, *History*, 168-169]



John William Draper
(1811-1882)

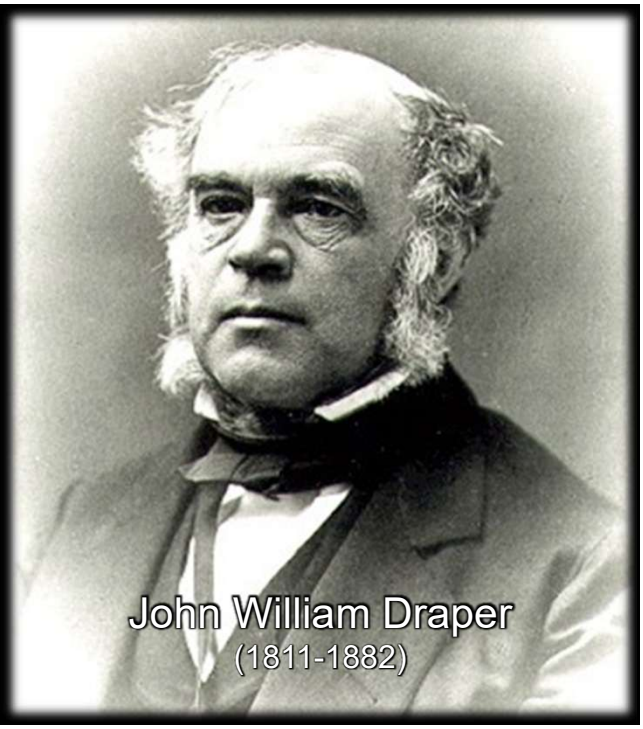
"The point here contested was one which is for mankind of the highest interest, because of the rank it assigns to the globe that we inhabit. If the earth be immovable in the midst of the universe, man has a right to regard himself as the principle object of the card of Nature.



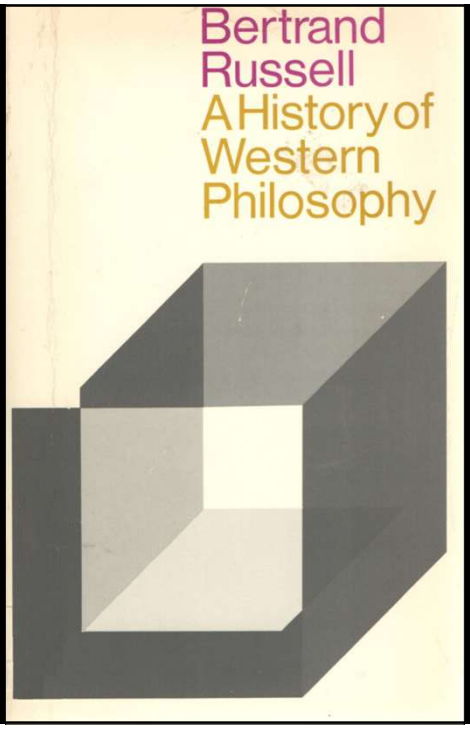
John William Draper
(1811-1882)

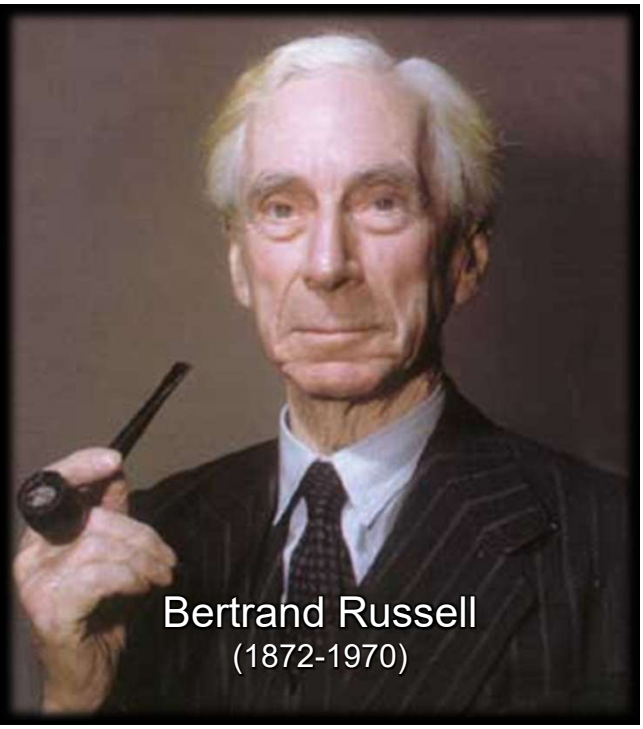
"But if the earth be only one of the planets revolving round the sun, an insignificant body in the solar system, she will disappear entirely in the immensity of the heavens, in which this system, vast as it may appear to us, is nothing but an insensible point."

[Draper, *History*, 172]



John William Draper
(1811-1882)

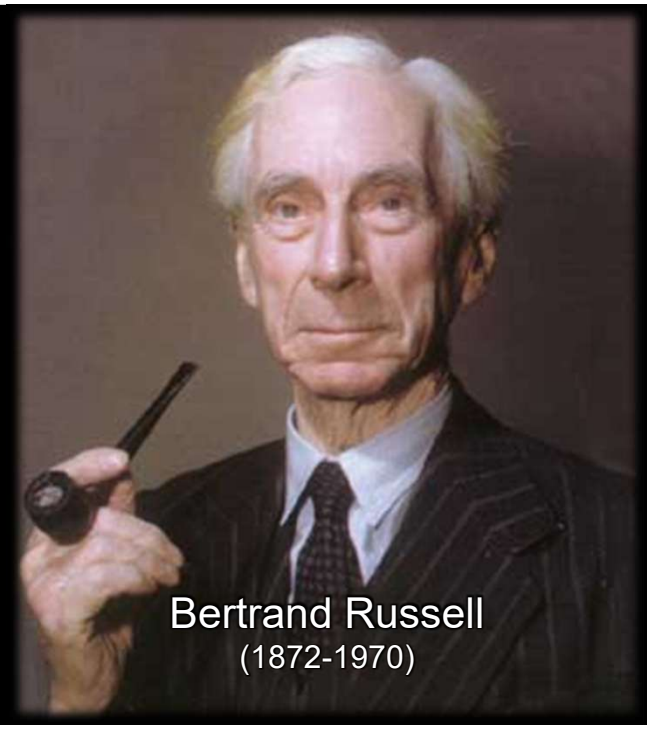




Bertrand Russell
(1872-1970)

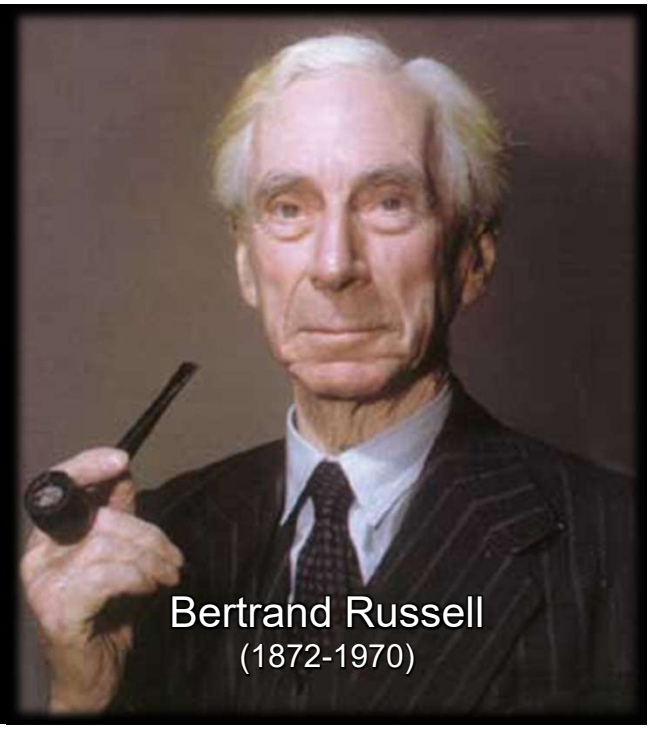
"Although most of the men of science were models of piety, the outlook suggested by their work was disturbing to orthodoxy, and the theologians were quite justified in feeling uneasy."

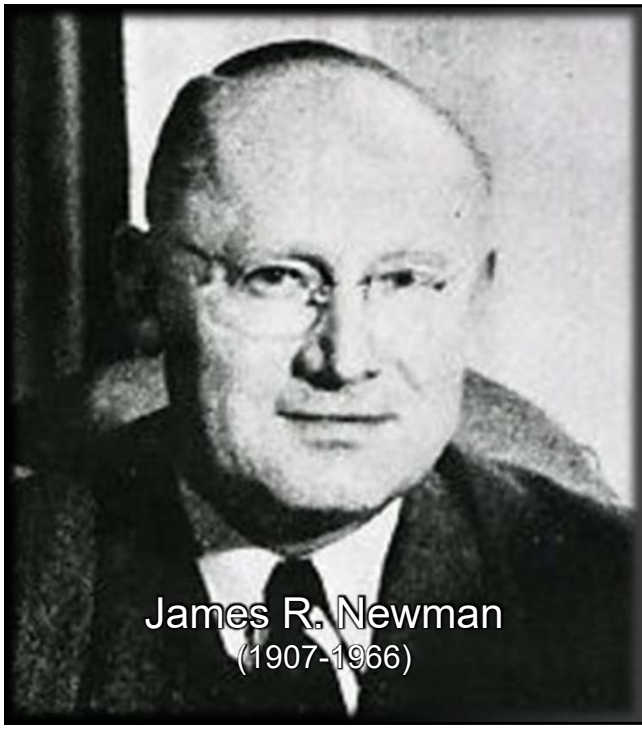
[Bertrand Russell, *A History of Western Philosophy*, 537]



"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]



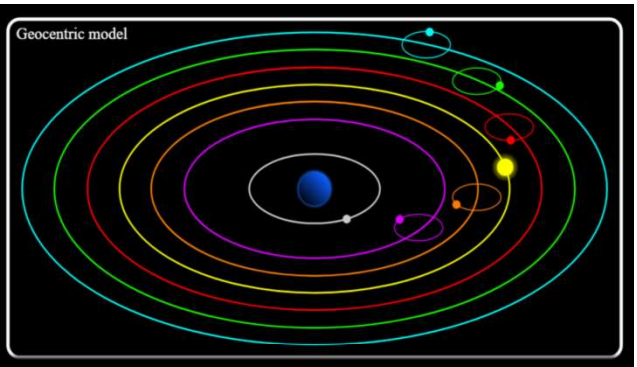


James R. Newman
(1907-1966)

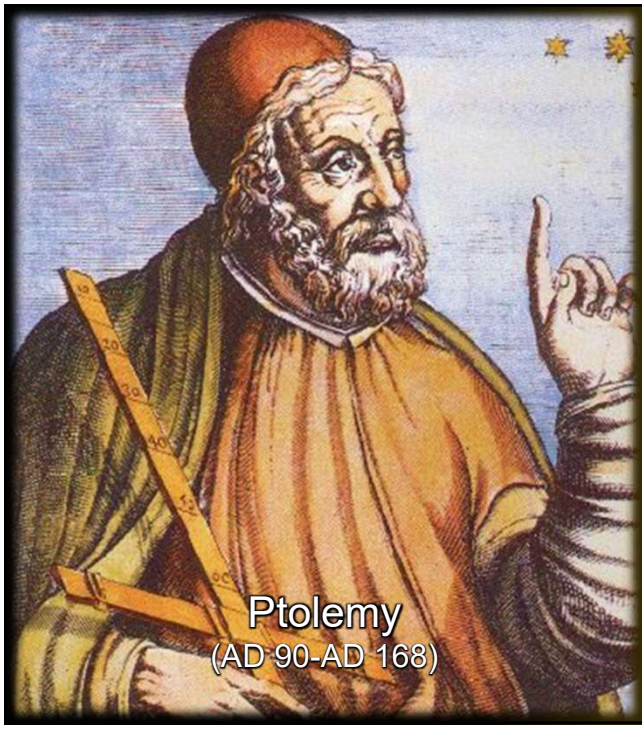
"Looking backward in history, it is easy for us to see that a moving earth and sun-centred universe gravely subverted Christian theology. If man's abode was not at the centre of things, how could he be king?."

[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 γή (gē), Earth), taught that the Earth was immobile and the Sun was moving.



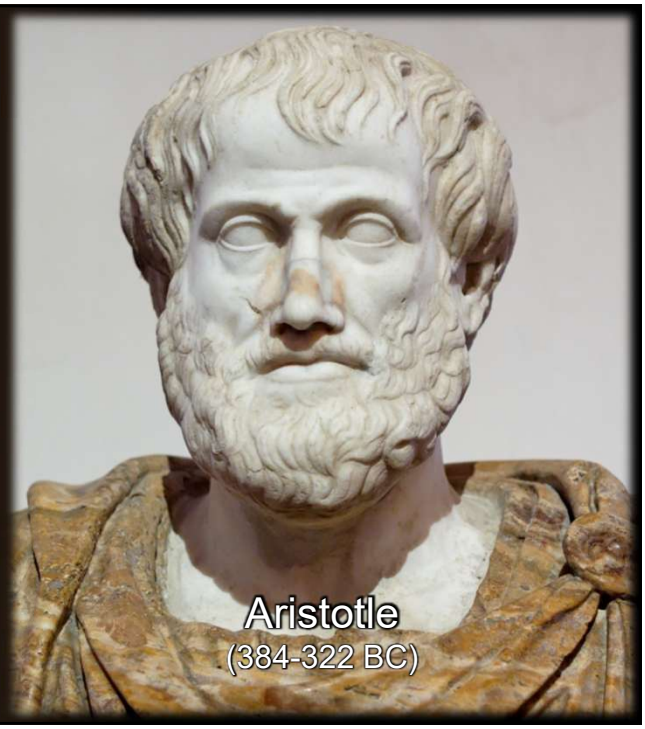
It was pioneered by the Greek astronomer Ptolemy.



"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]

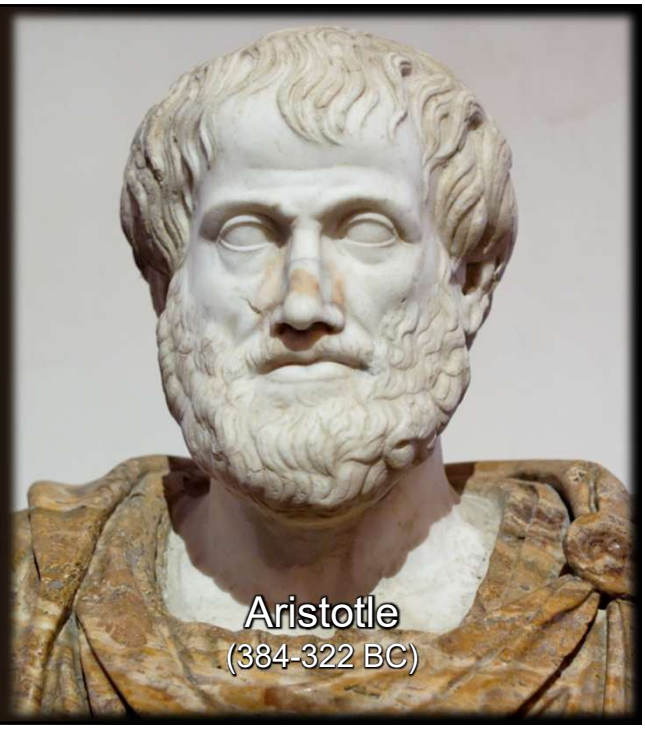
This old system was based primarily on the thinking of Aristotle.



Aristotle
(384-322 BC)

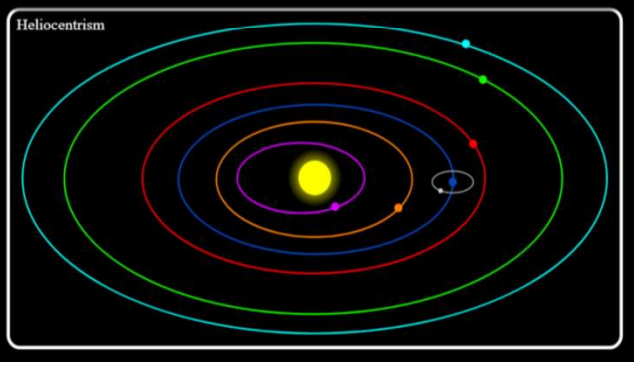
"From these considerations then it is clear that the earth does not move and does not lie elsewhere than at the center."

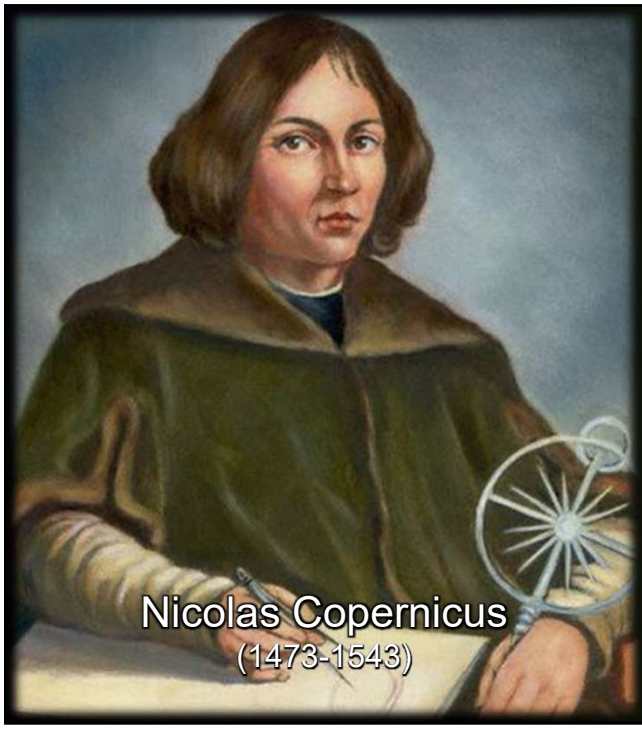
[*The Basic Works of Aristotle*, ed. Richard McKeon, *On the Heavens*, II, 14, 296ᵇ26, transl. J. L. Stocks]



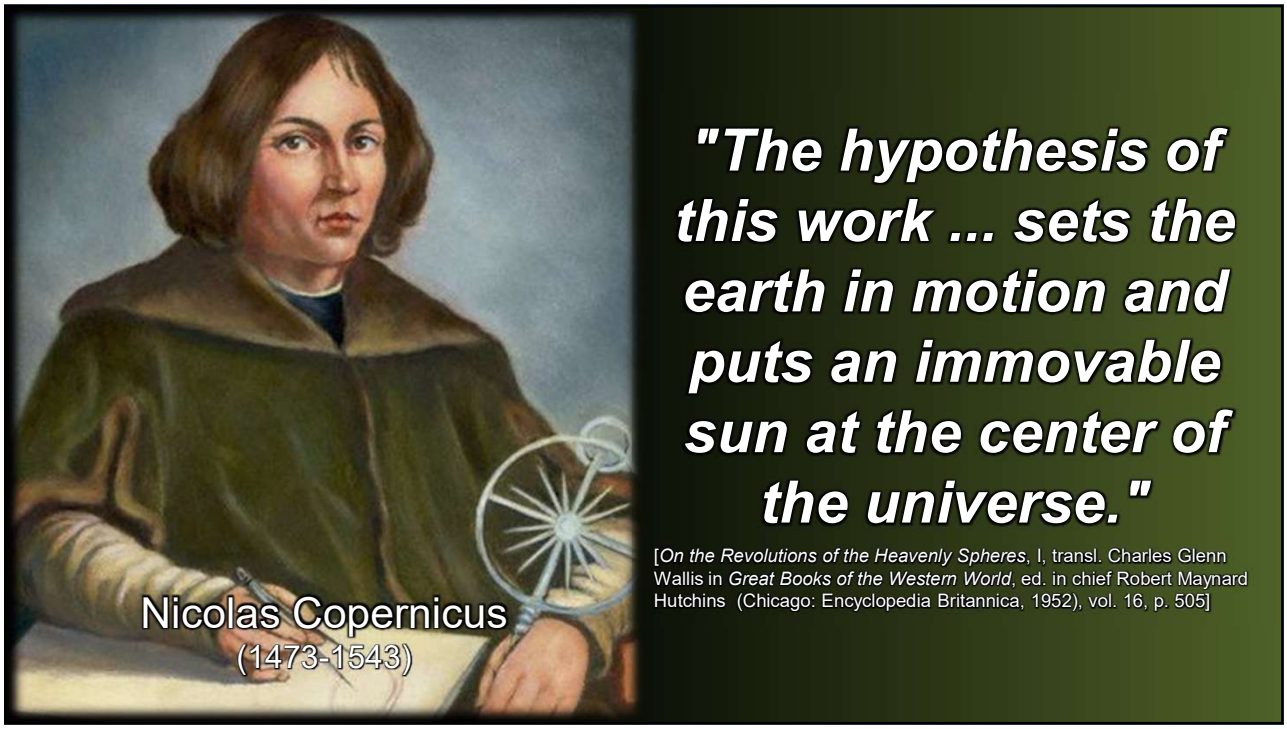
Aristotle
(384-322 BC)

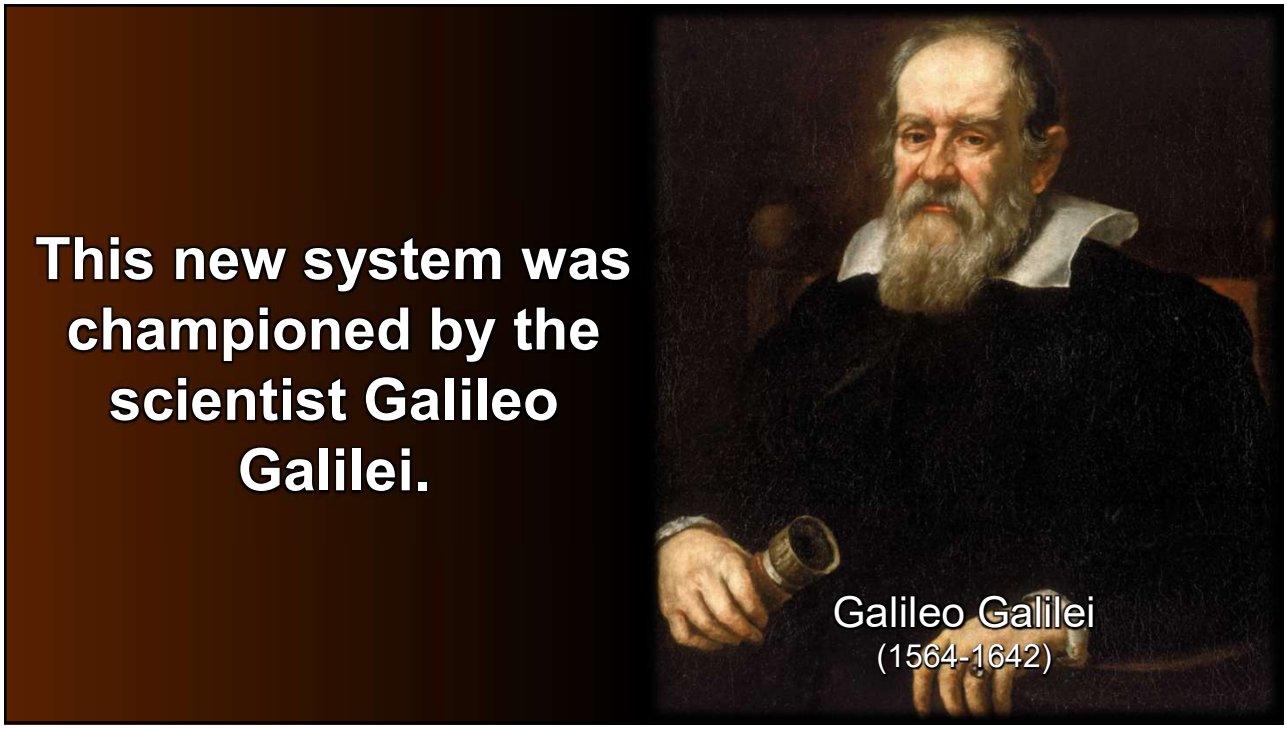
The new system, known as heliocentrism (from ἥλιός (helios), Sun) taught that the Sun was immobile and that Earth was moving.





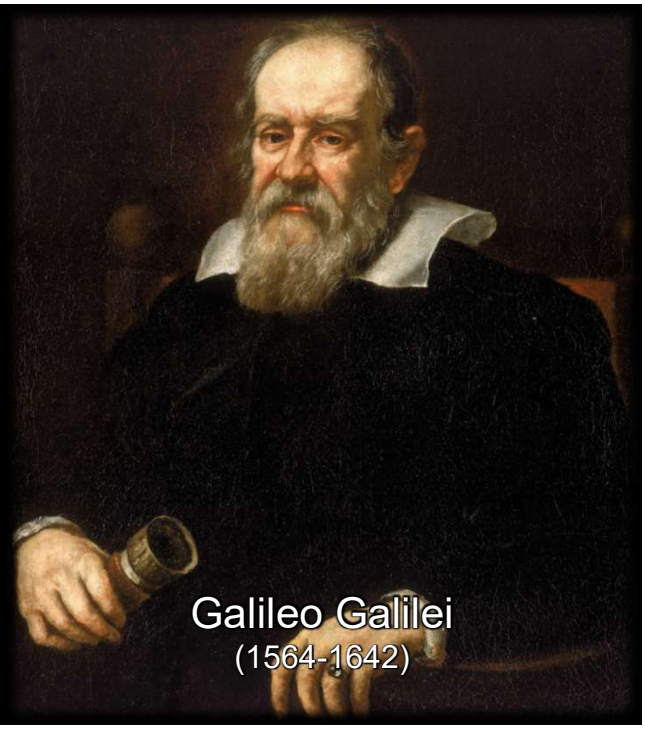
It was pioneered by the Polish astronomer Nicolas Copernicus.


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]


This new system was championed by the scientist Galileo Galilei.
Galileo Galilei
(1564-1642)

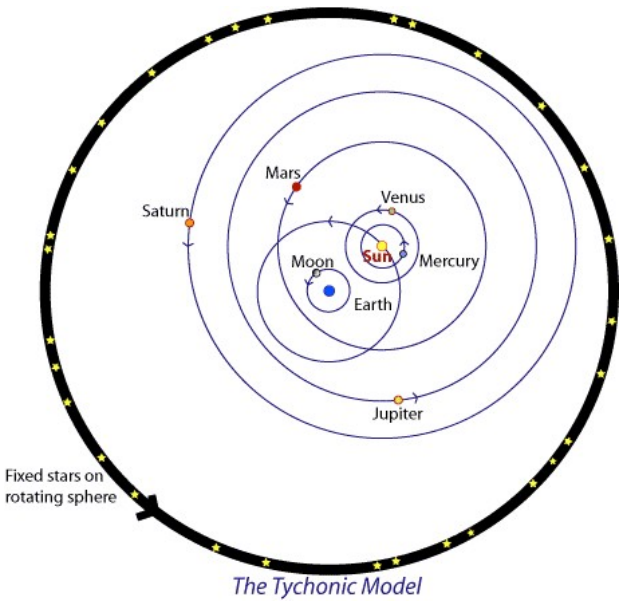
"Now if it is true that the center of the universe is that point around which all the orbs and world bodies (that is, the planets) move, it is quite certain that not the earth, but the sun, is to be found at the center of the universe."

["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]

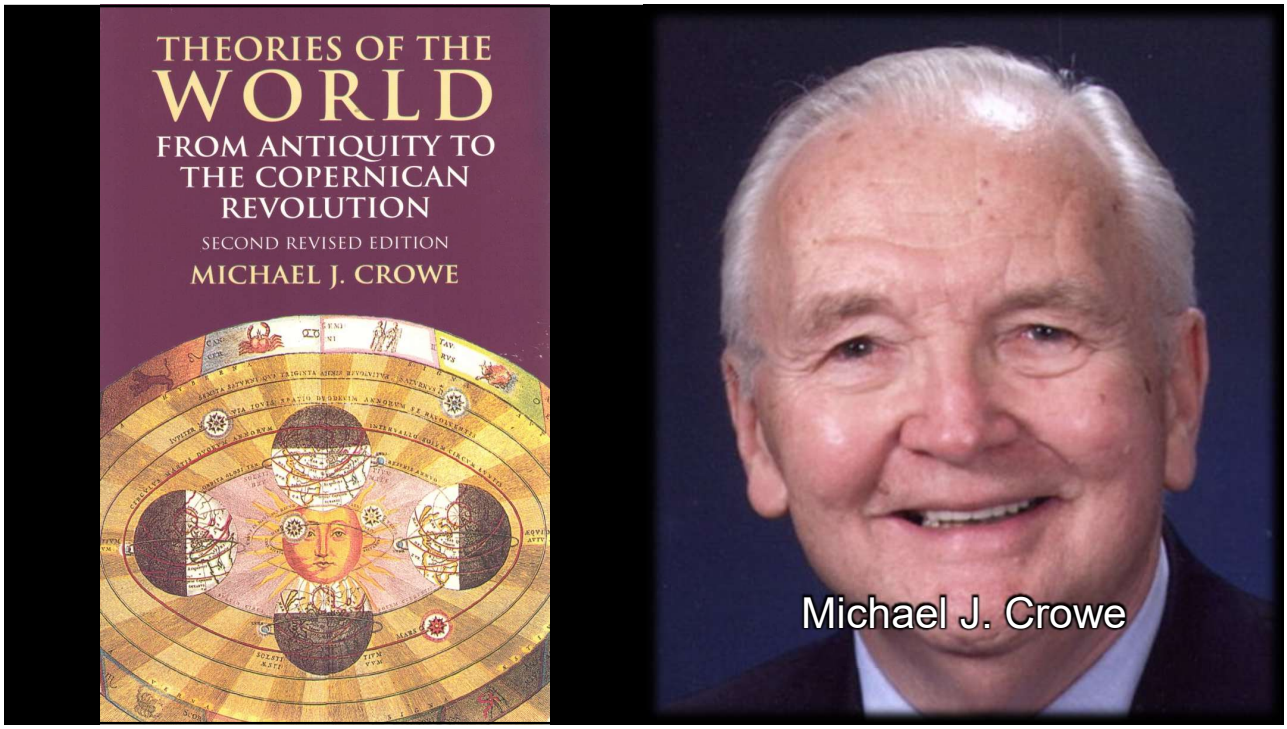


Galileo Galilei
(1564-1642)

Tycho Brahe
(1546-1601)



The Tychonic Model


THEORIES OF THE
WORLD
FROM ANTIQUITY TO
THE COPERNICAN
REVOLUTION
SECOND REVISED EDITION
MICHAEL J. CROWE
Michael J. Crowe


Answer

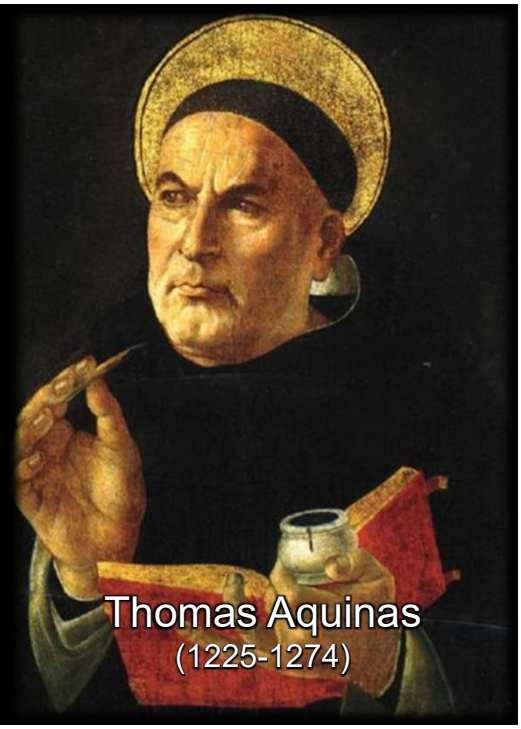
"In the case of the universe … the nearer the parts are to the center, the greater is their turbidness, their solidity, their inertness, their dimness and darkness, because they are further away from the loftiest element, from the source of light and brightness."

The Guide for the Perplexed, trans. M. Friedländer, 2nd ed. (New York: Dutton, 1919), 118-119 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.

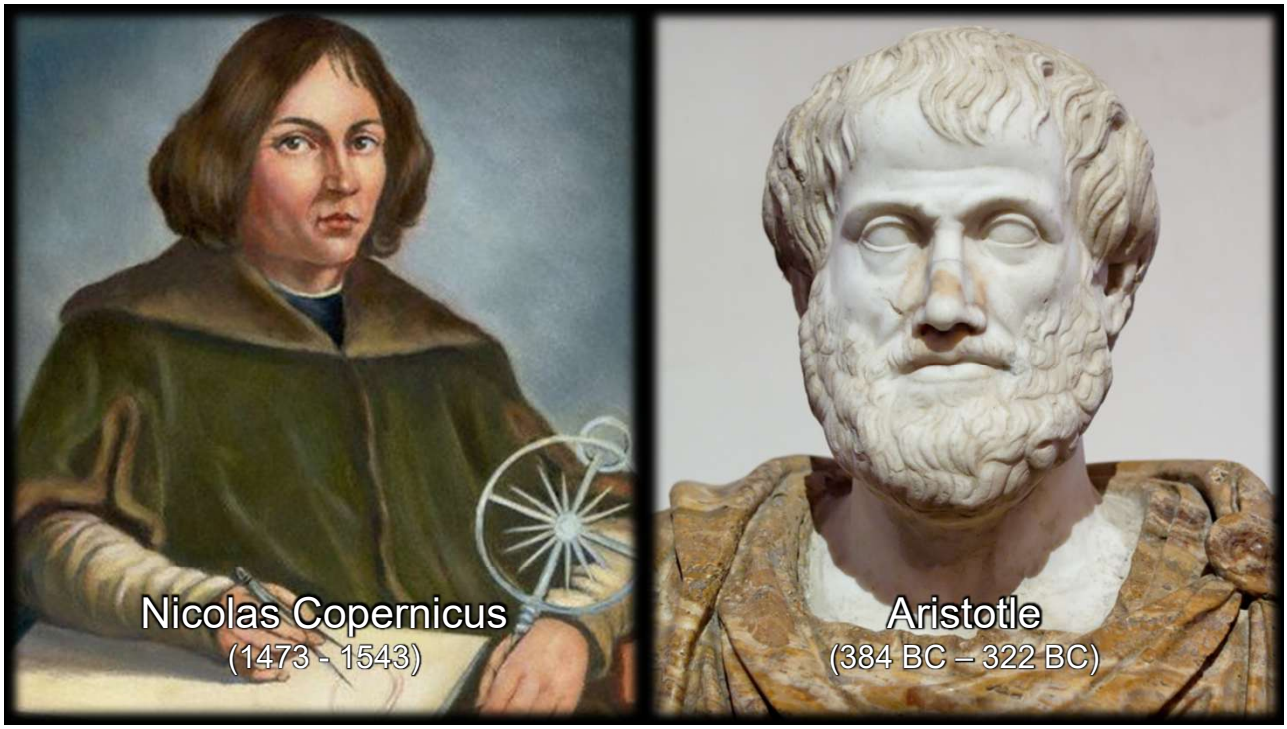
Moses Maimonides
(1138-1204)

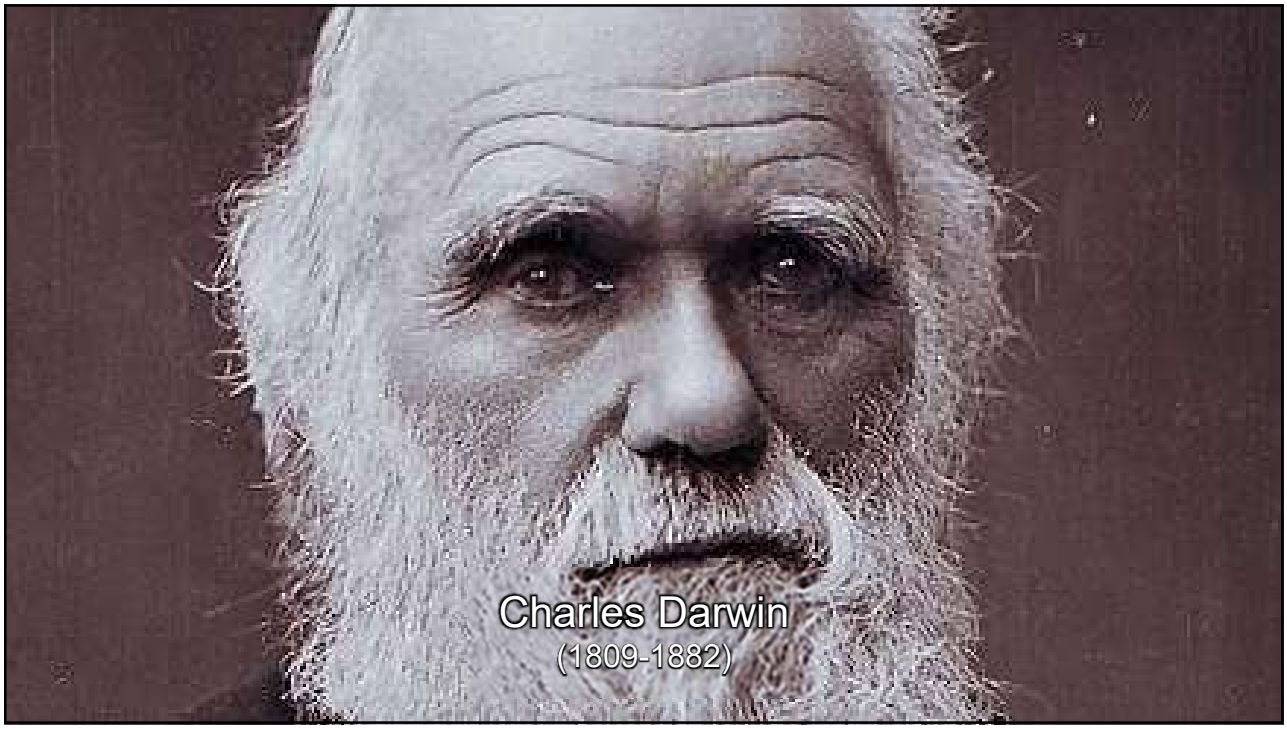
"In the universe, earth—that all the spheres encircle and that, as for place, lies in the center—is the most material and coarsest (ignobilissima) of all bodies."

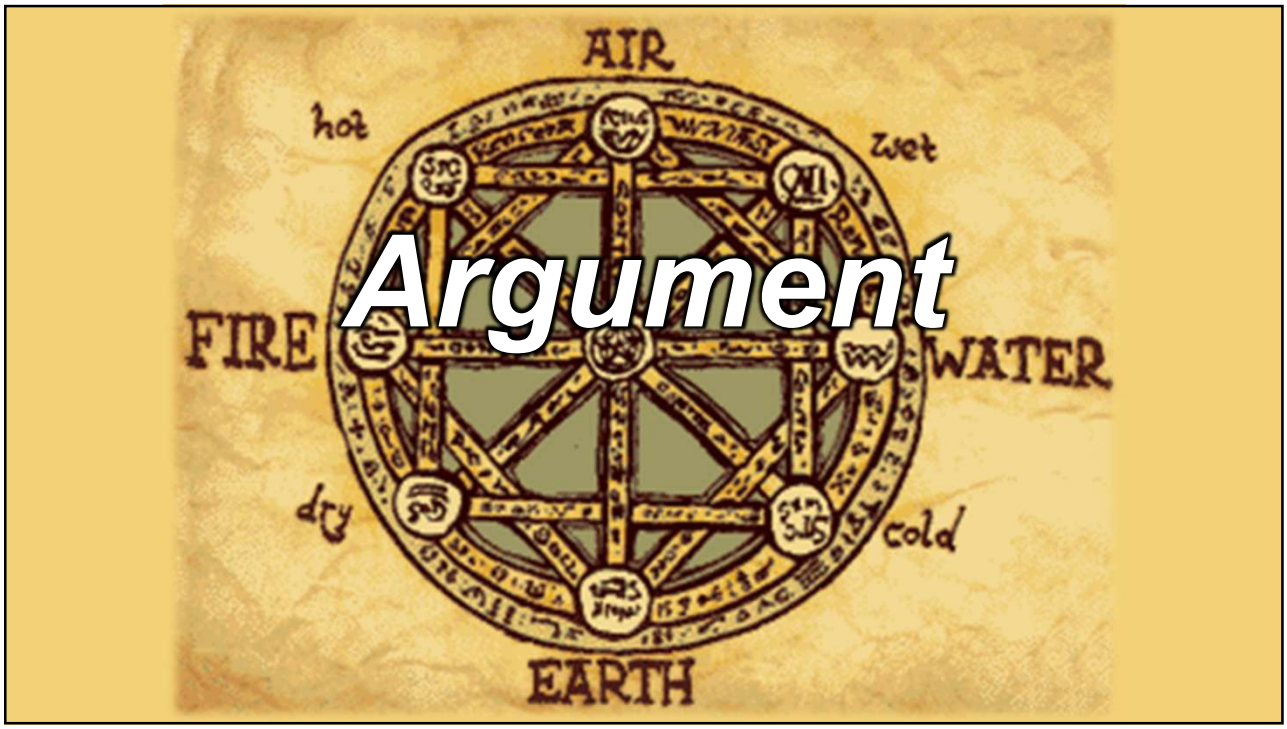
Commentary on Aristotle's De Caelo, II, xiii, 1 & xx, n. 7, in vol. 3, 202b of teh Leonia ed.; trans. and quoted by Réne Brague, "Geocentrism as a Humiliation for Man," *Medieval Encounters* 3 (1997): 187-210 (202) cited in "That Copernicanism Demoted Humans from the Center of the Cosmos" in Ronald L.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



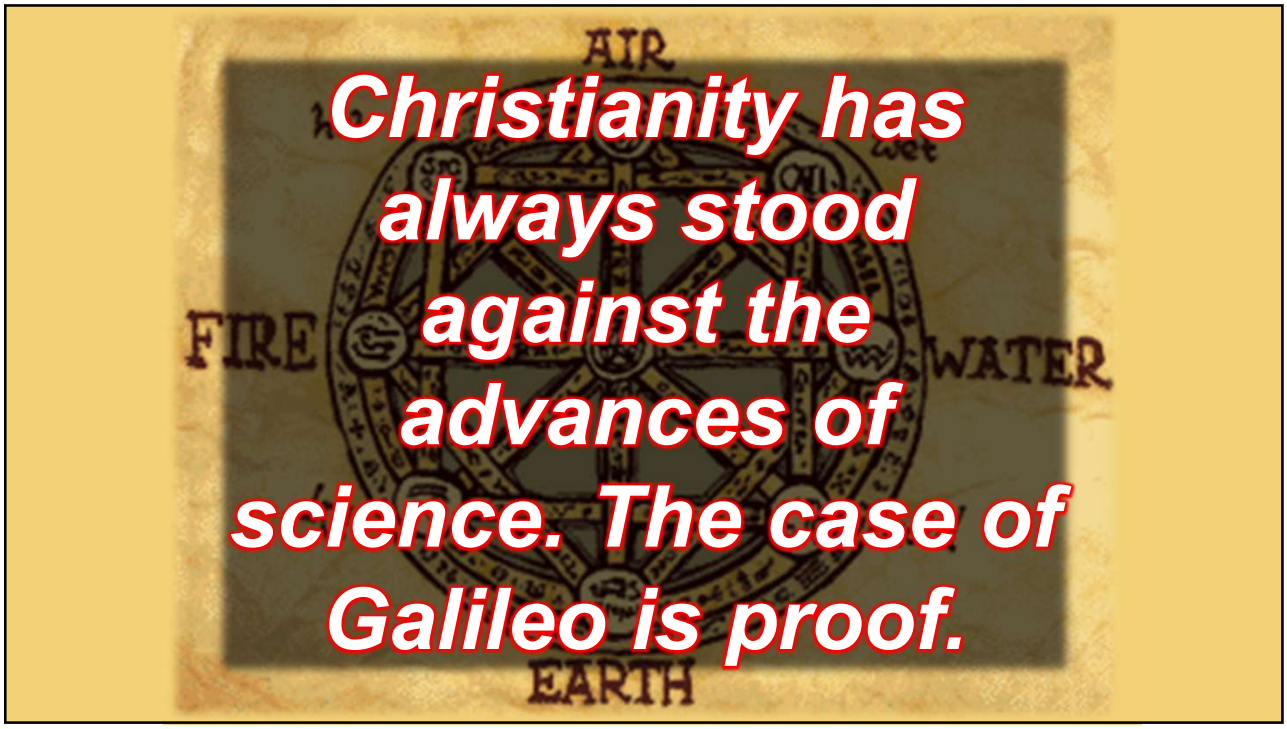
Thomas Aquinas
(1225-1274)


Nicolas Copernicus
(1473 - 1543)
Aristotle
(384 BC – 322 BC)

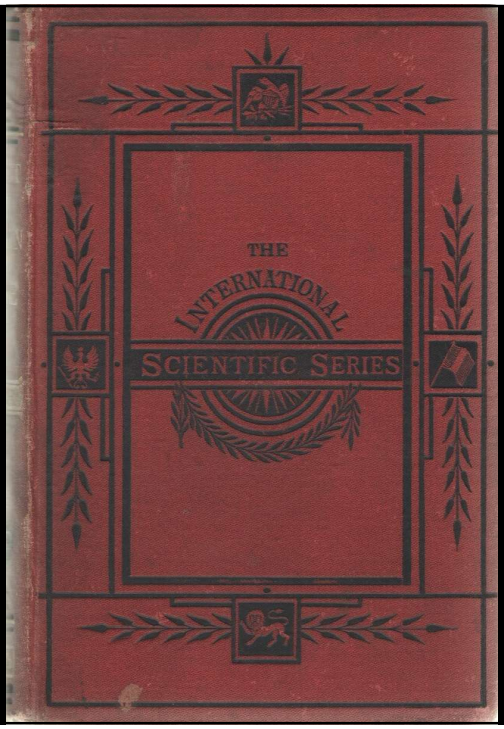

Charles Darwin
(1809-1882)

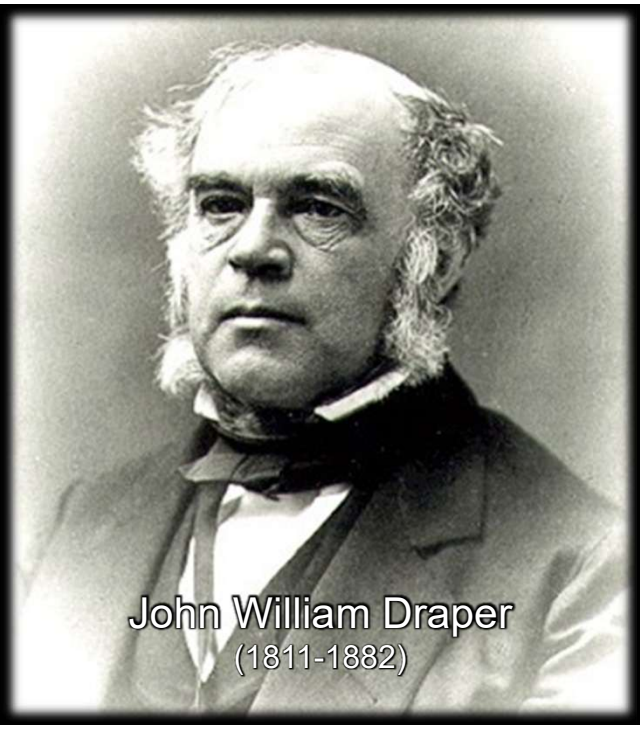


Argument



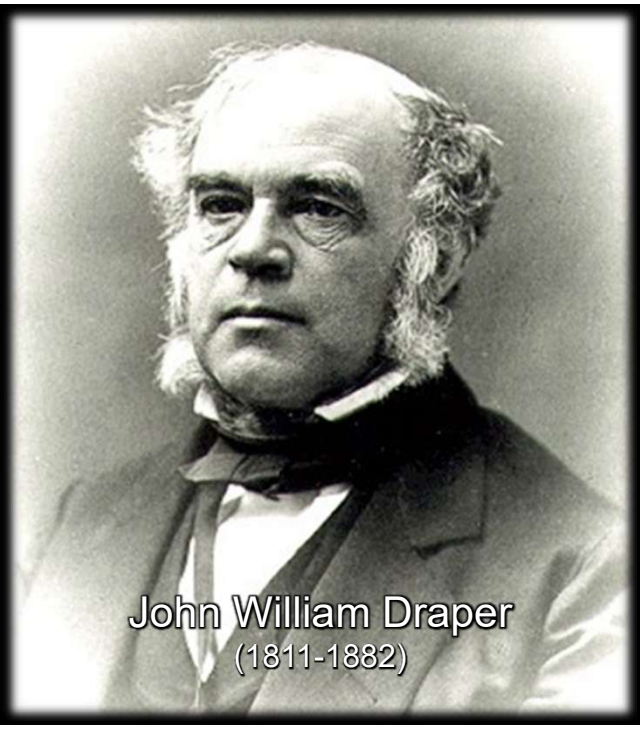
Christianity has always stood against the advances of science. The case of Galileo is proof.

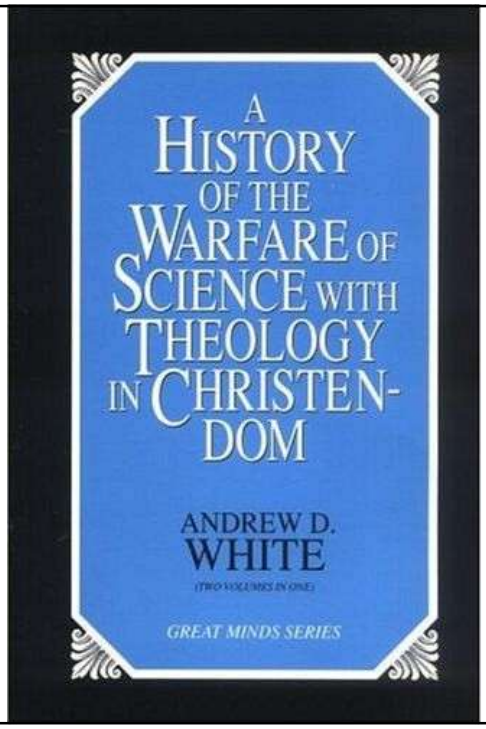


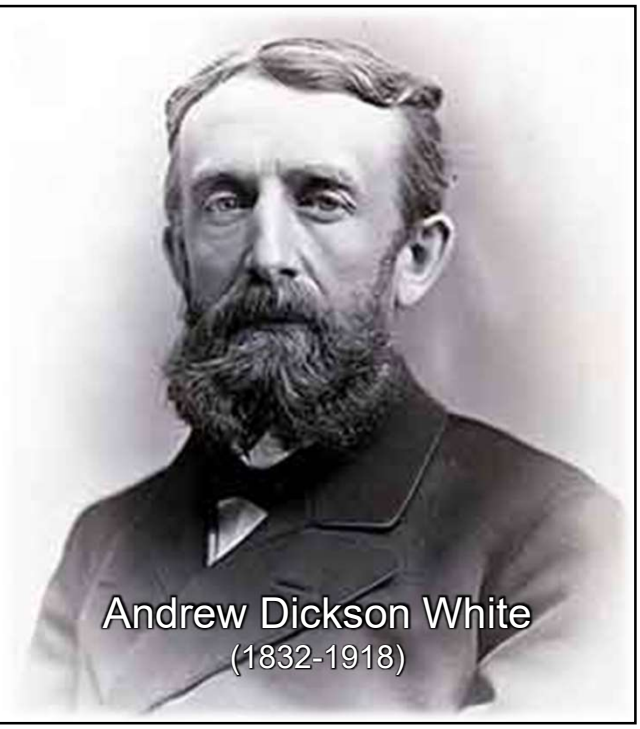


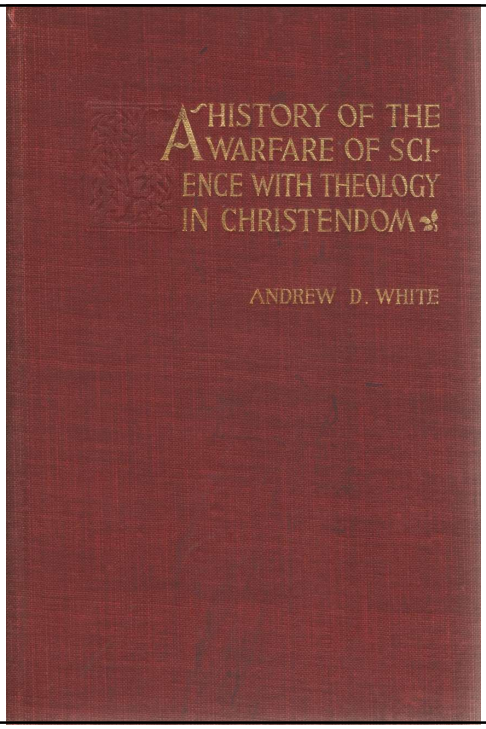
"The history of Science is not a mere record of isolated discoveries; it is a narrative of the conflict of two contending powers, the expansive force of the human intellect on the one side, and the compression arising from traditionary faith and human interest on the other."

[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]




A
HISTORY
OF THE
WARFARE OF
SCIENCE WITH
THEOLOGY
IN CHRISTEN-
DOM
ANDREW D.
WHITE
GREAT MINDS SERIES


Andrew Dickson White
(1832-1918)


A HISTORY OF THE
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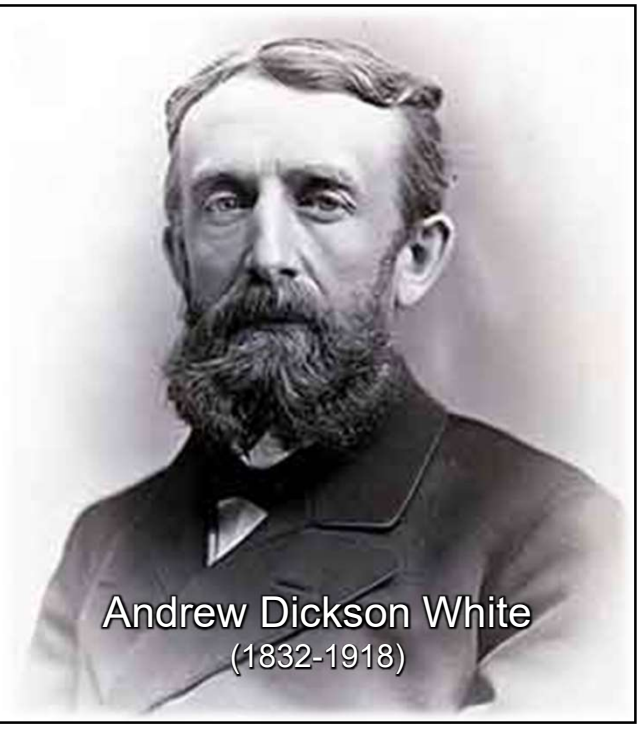
ANDREW D. WHITE

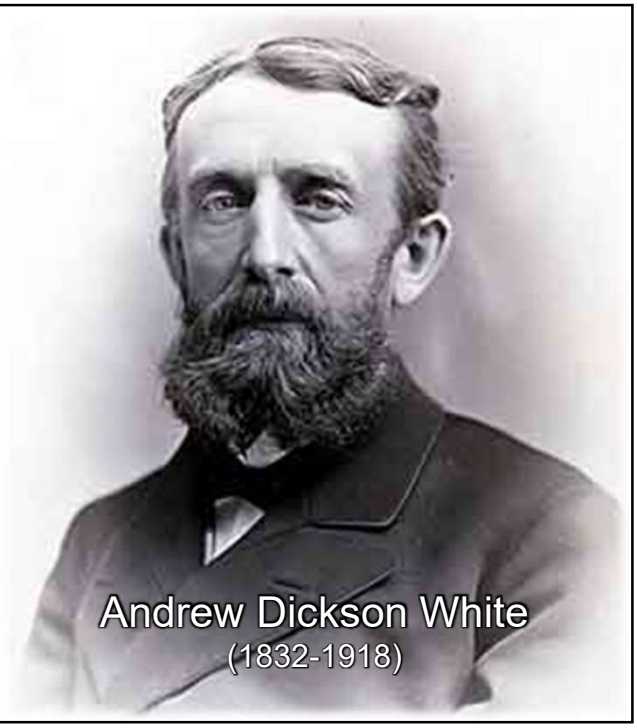

Andrew Dickson White
(1832-1918)

1st President of Cornell University

1st President of the American Historical Association

US Ambassador to Germany and Russia

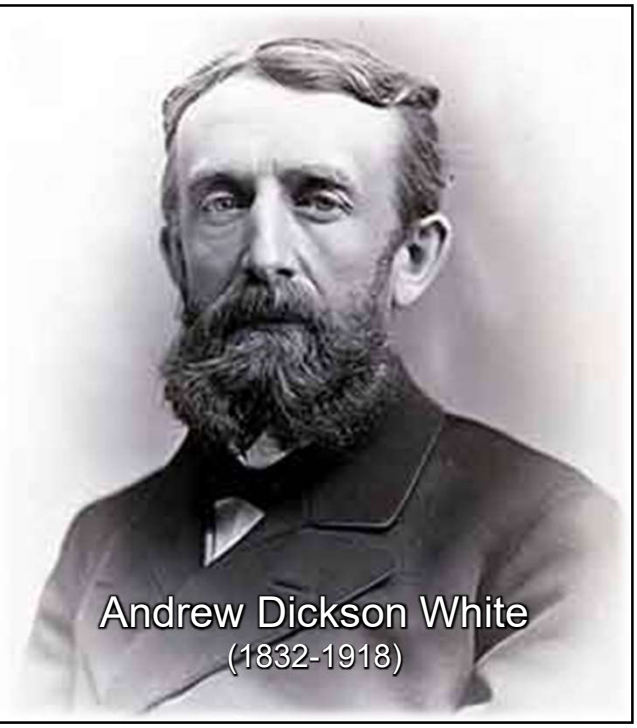
His second wife (White was a widower), Helen Magill, was the first woman to earn a Ph.D. in the United States



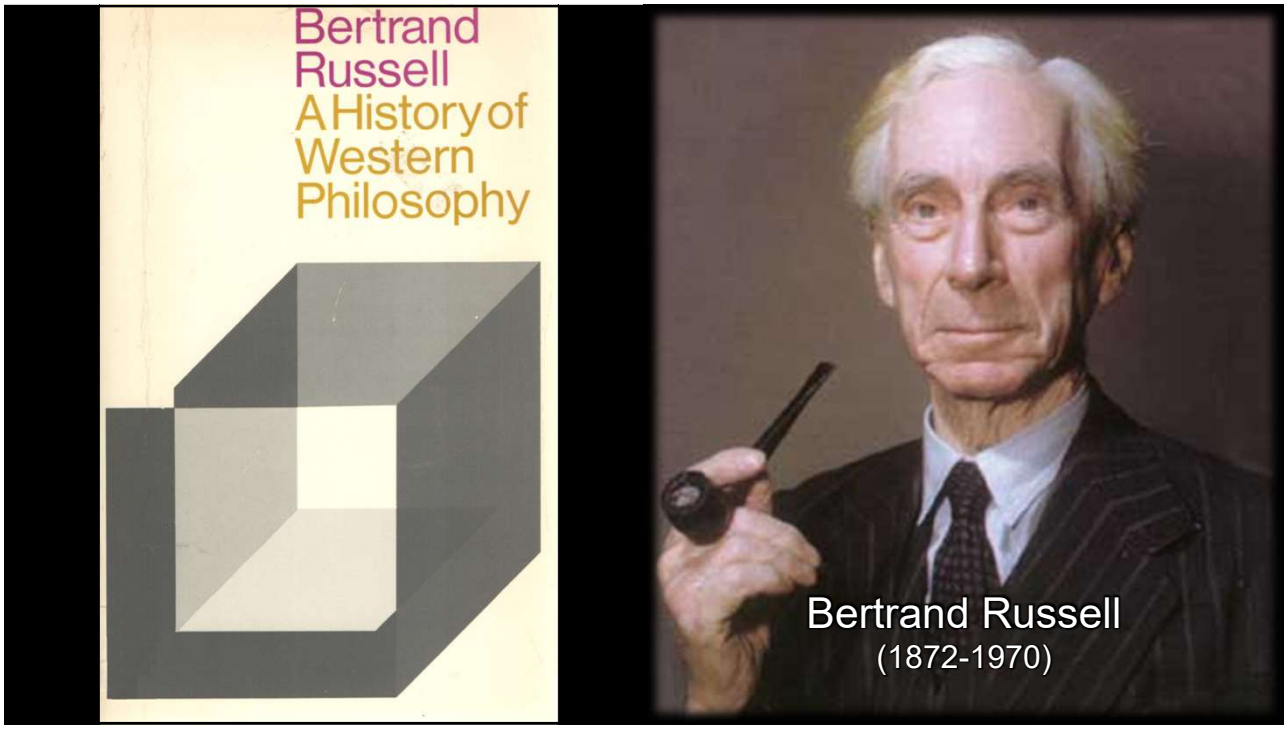
Andrew Dickson White
(1832-1918)

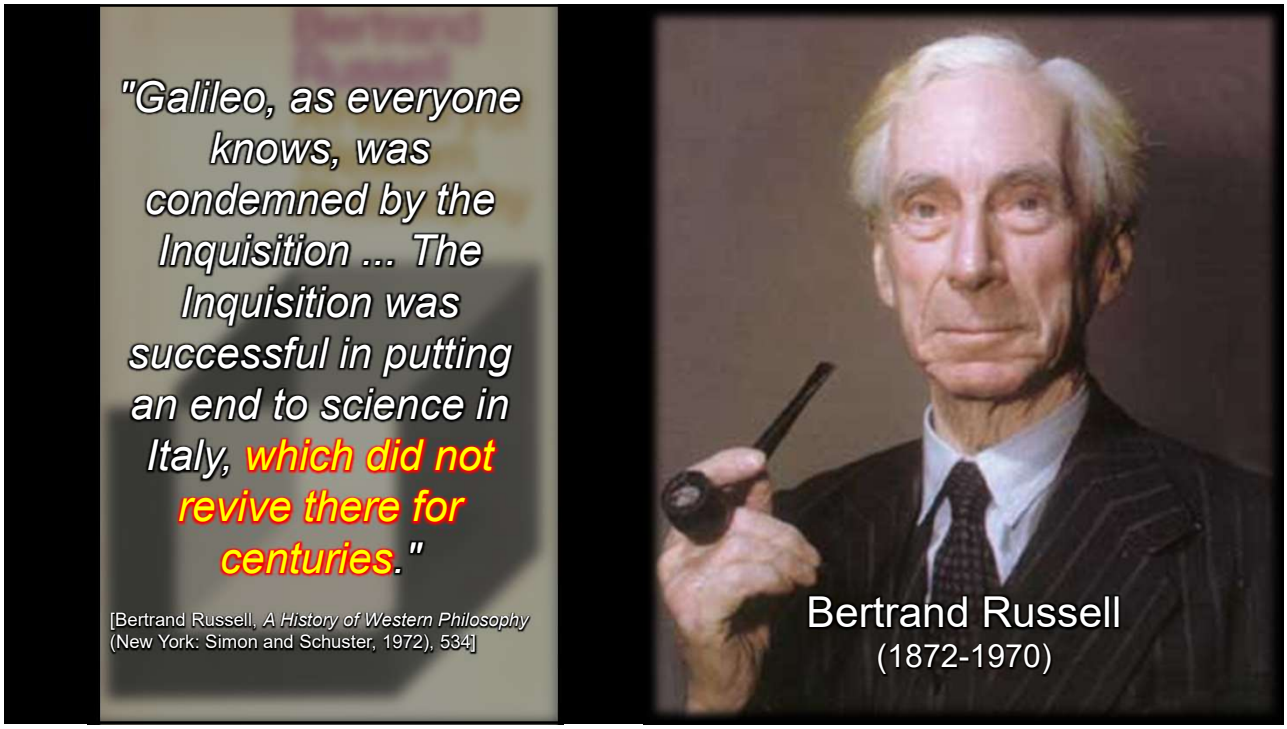
"Much as I admired Draper's treatment of the questions involved, his point of view and mode of looking at history were different from mine. He regarded the struggle as one between Science and Religion. I believed then, and am convinced now, that it was a struggle between Science and Dogmatic Theology"

[Andrew D. White, *A History of the Warfare of Science with Theology in Christendom* (New York: D. Appelton and Co., 1896), ix]

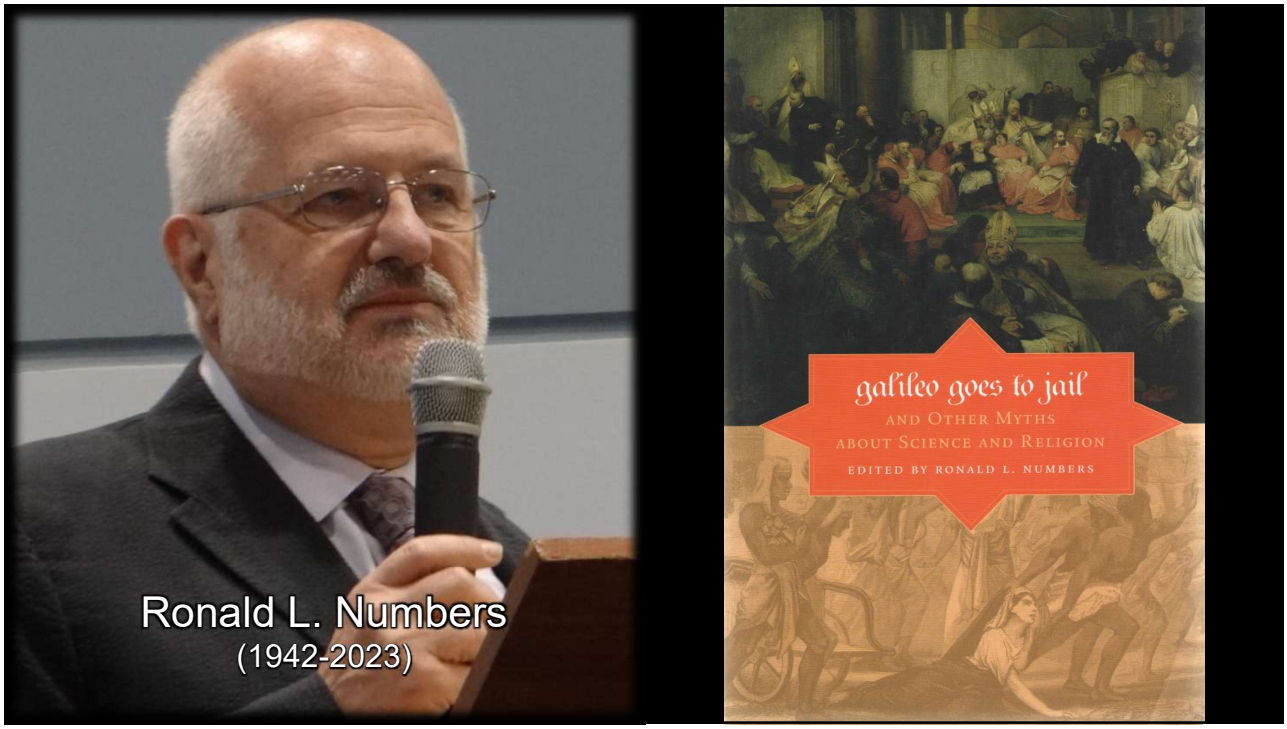


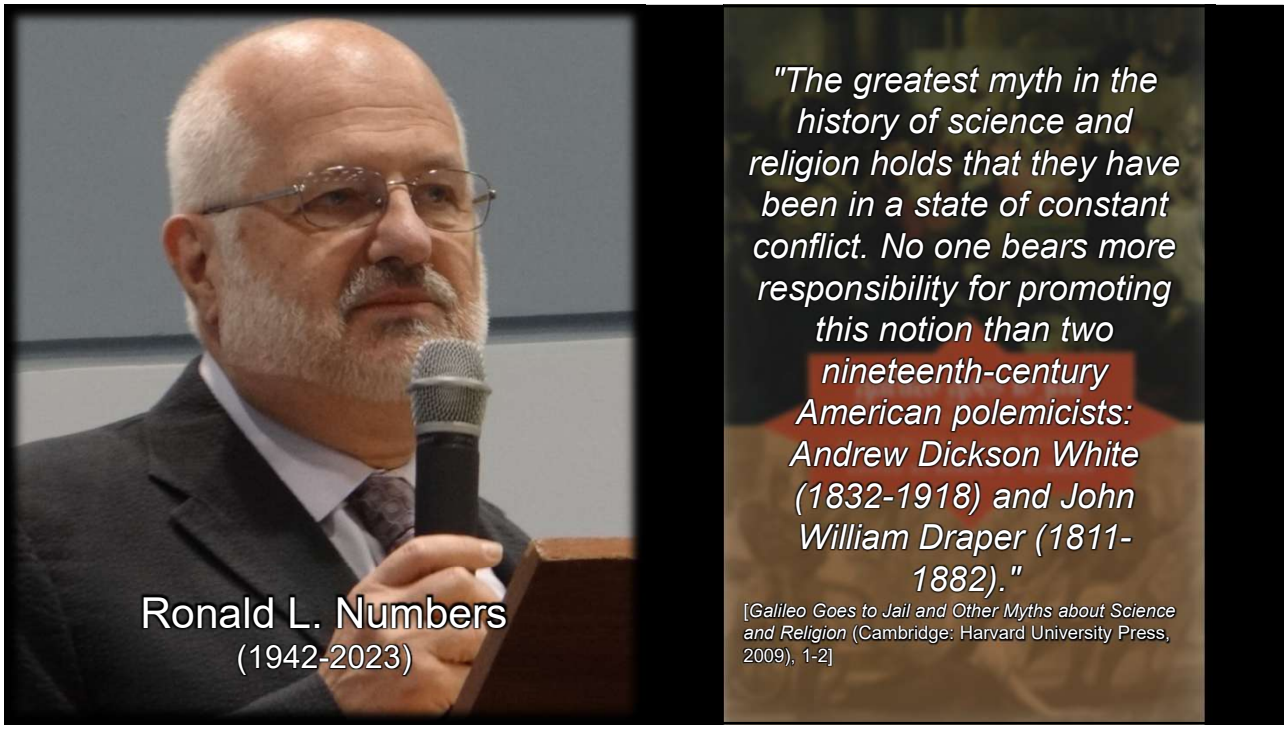
Andrew Dickson White
(1832-1918)

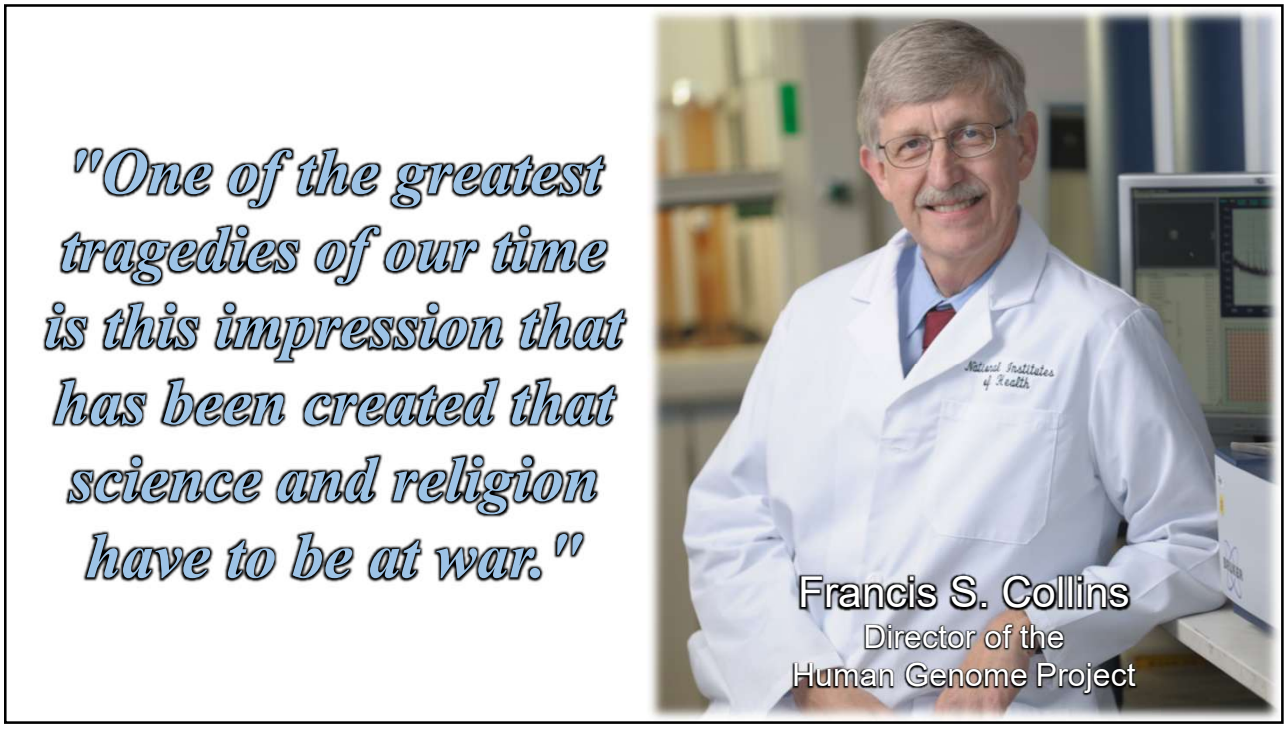

Bertrand Russell
A History of Western Philosophy
Bertrand Russell
(1872-1970)

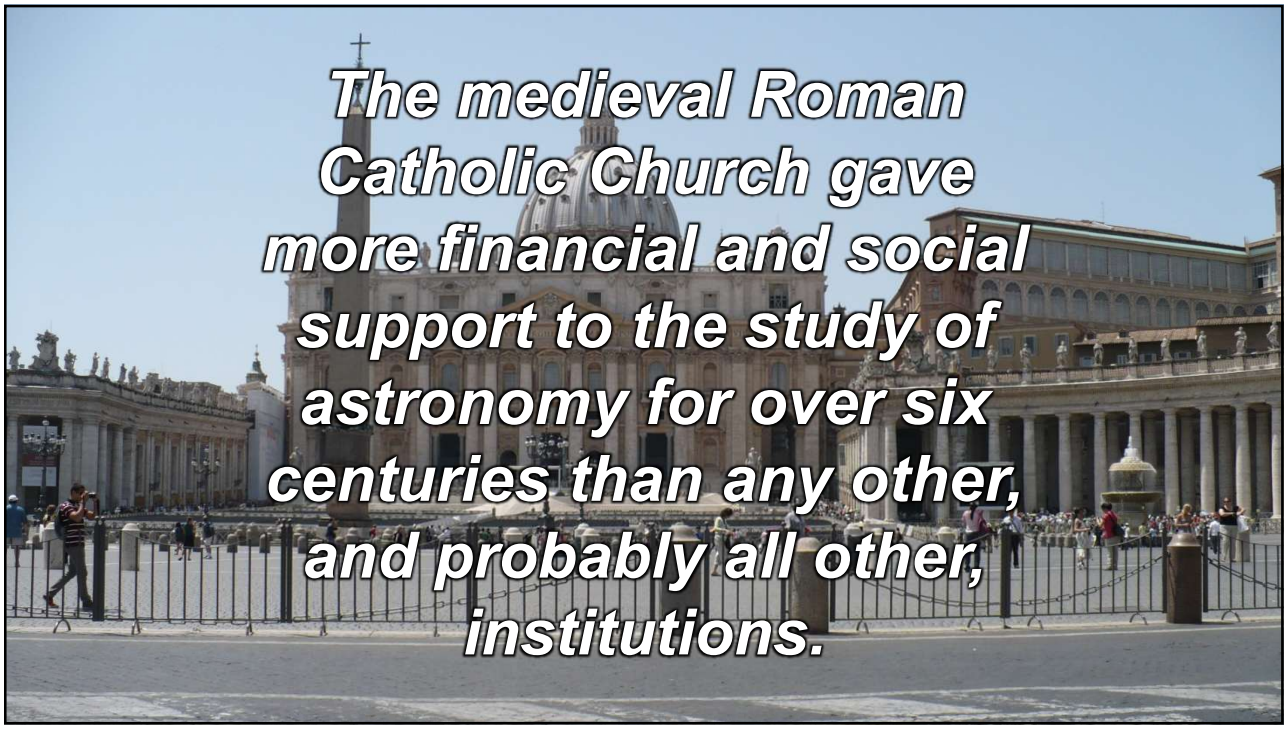

"Galileo, as everyone knows, was condemned by the Inquisition ... The Inquisition was successful in putting an end to science in Italy, which did not revive there for centuries."
[Bertrand Russell, A History of Western Philosophy (New York: Simon and Schuster, 1972), 534]
Bertrand Russell
(1872-1970)

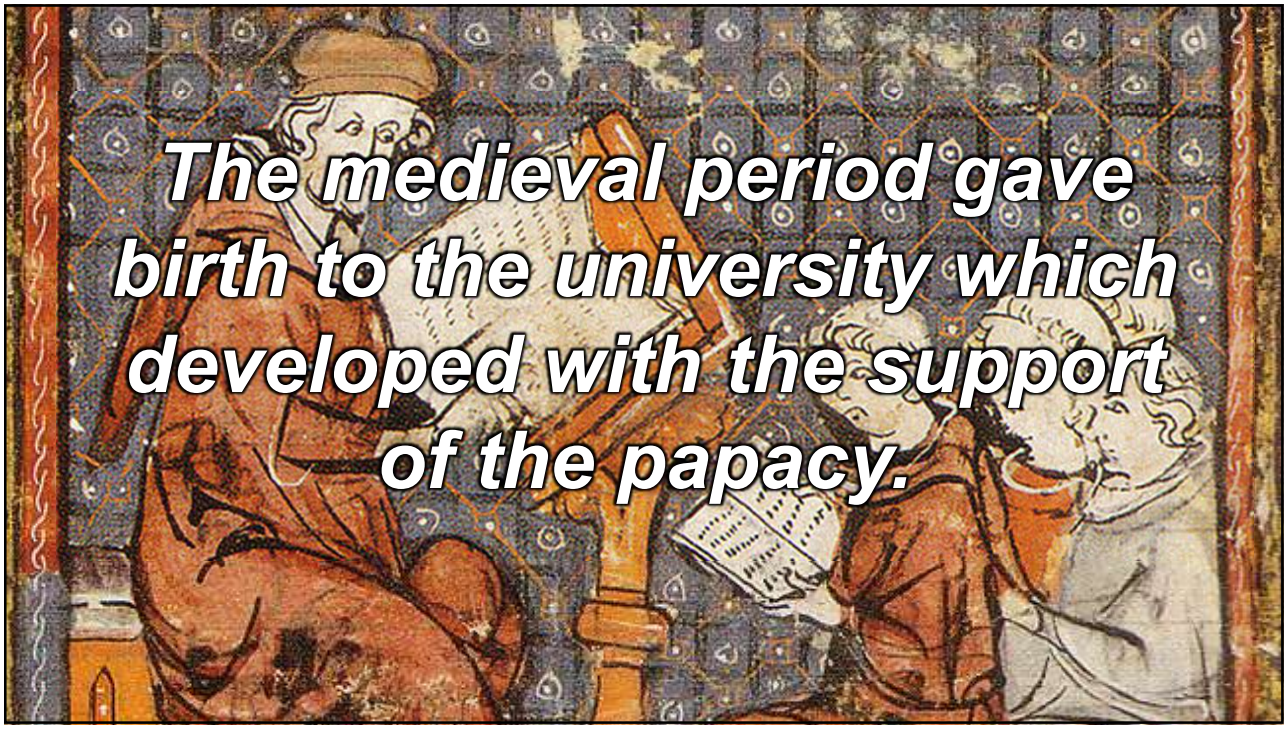

Answer

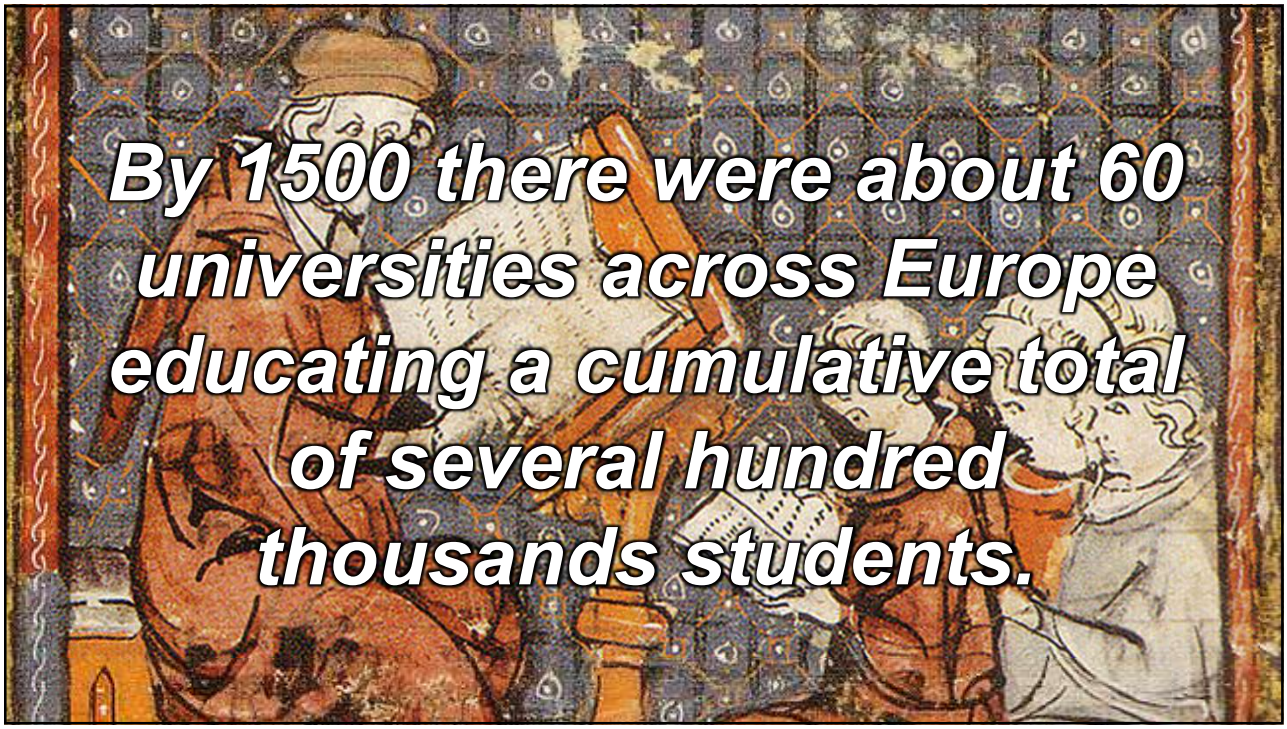

Ronald L. Numbers
(1942-2023)
galileo goes to jail
AND OTHER MYTHS
ABOUT SCIENCE AND RELIGION
EDITED BY RONALD L. NUMBERS

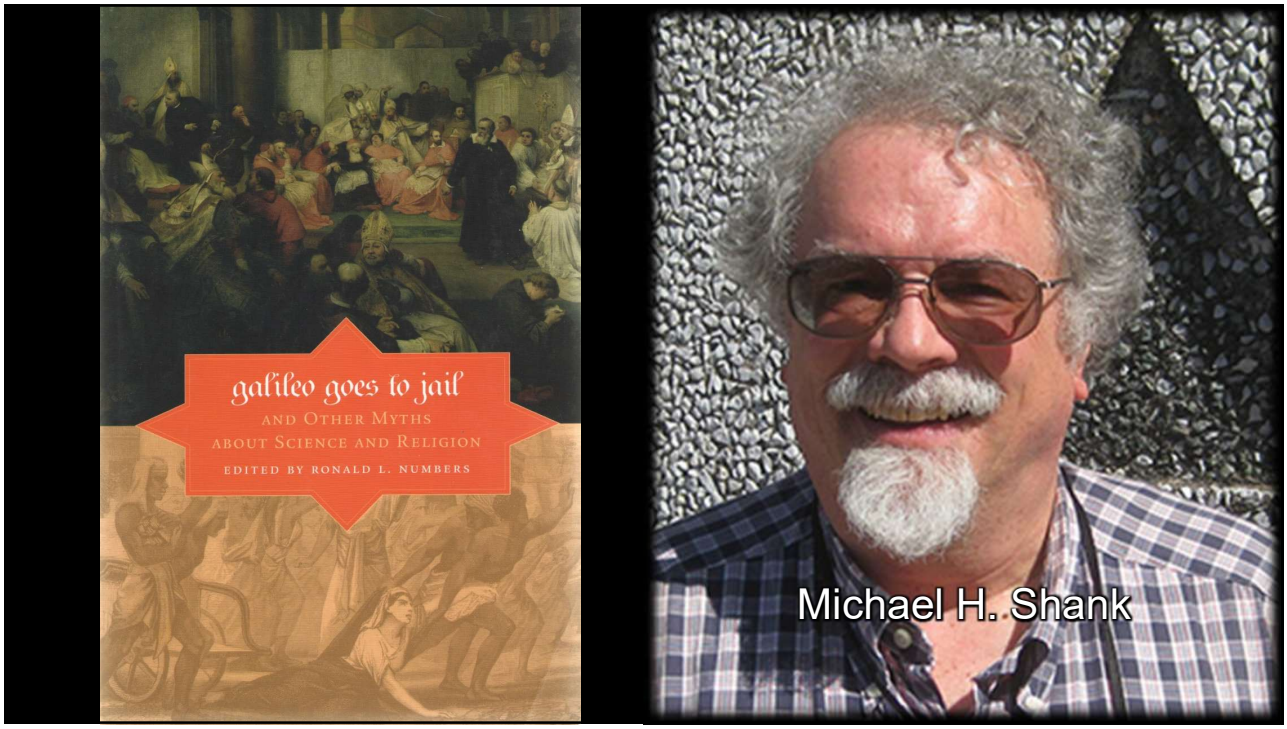

Ronald L. Numbers
(1942-2023)
"The greatest myth in the history of science and religion holds that they have been in a state of constant conflict. No one bears more responsibility for promoting this notion than two nineteenth-century American polemicists: Andrew Dickson White (1832-1918) and John William 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


The medieval Roman Catholic Church gave more financial and social support to the study of astronomy for over six centuries than any other, and probably all other, institutions.


The medieval period gave birth to the university which developed with the support of the papacy.


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


galileo goes to jail
AND OTHER MYTHS
ABOUT SCIENCE AND RELIGION
EDITED BY RONALD L. NUMBERS
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.

"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.

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

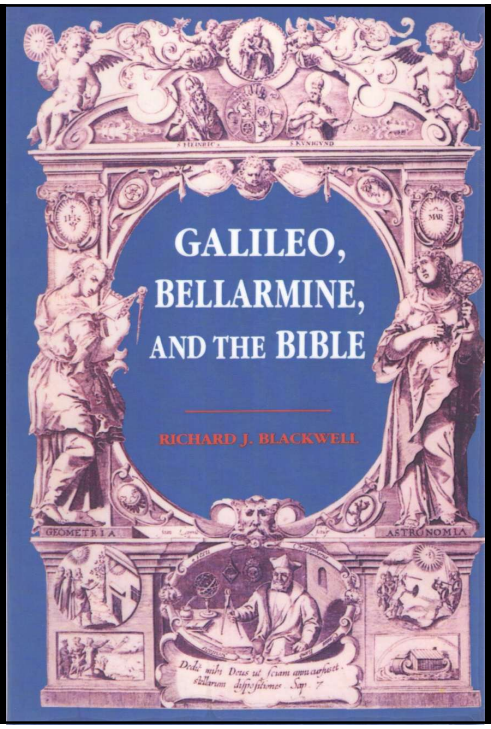
While there can be no doubt that Galileo's embracing the Copernican system got him into serious trouble with the Church officials . . .

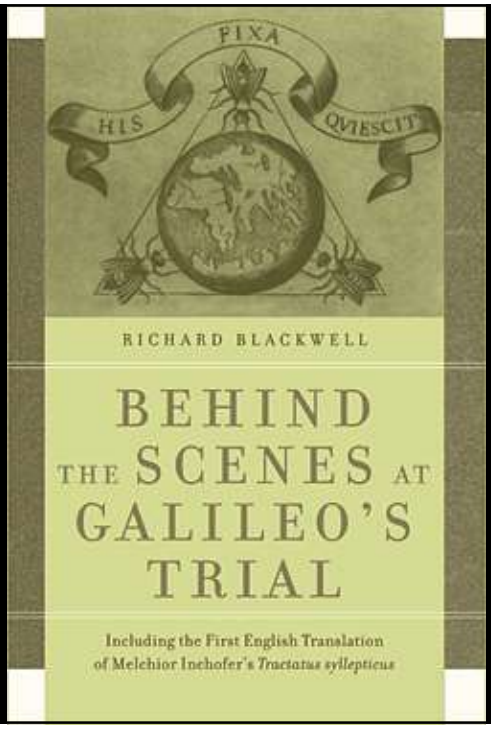
Summation

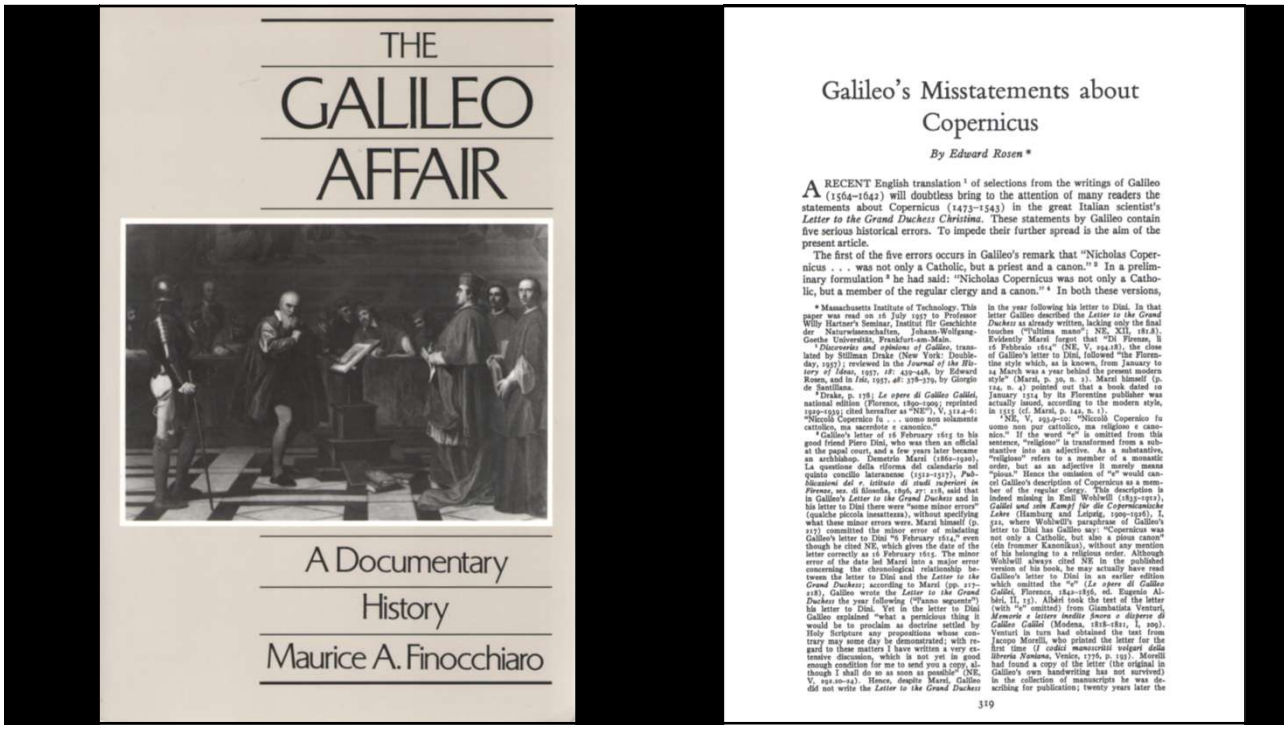
. . . it must be remembered that his views were just as much in conflict with the reigning scientific views of the universities as they were with the reigning theological views of the Church.

Summation

Thus, the Galileo affair is just as much a commentary on the conflict between science and science as it is a commentary on any conflict between science and religion.







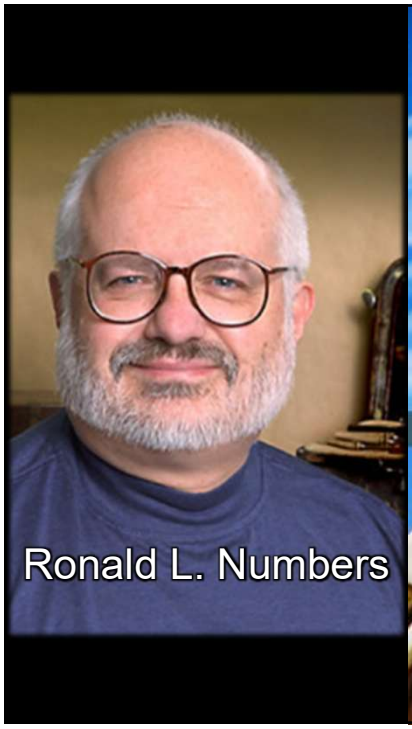
Galileo's Misstatements about Copernicus

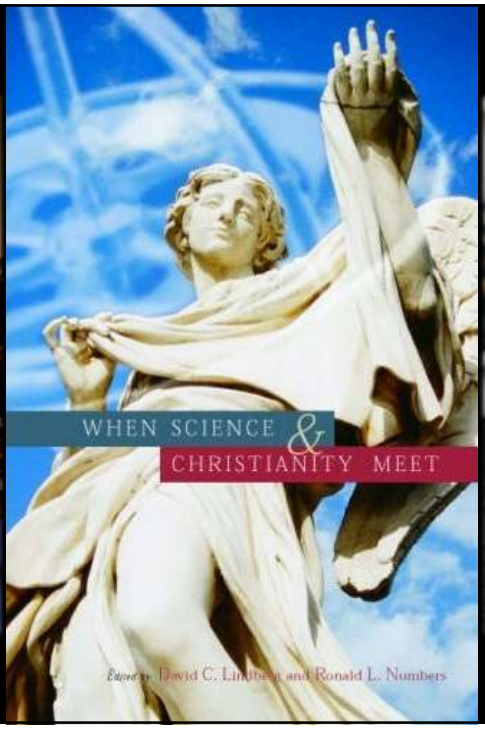
By Edward Rosen *

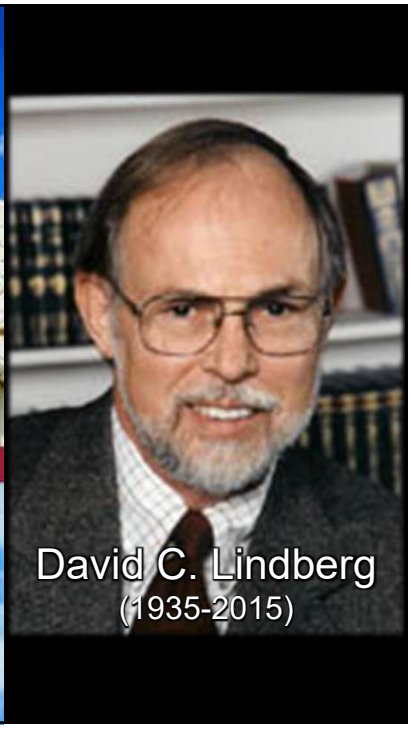
A RECENT English translation [1] of selections from the writings of Galileo (1564–1642) will doubtless bring to the attention of many readers the statements about Copernicus (1473–1543) in the great Italian scientist's *Letter to the Grand Duchess Christina*. These statements by Galileo contain five serious historical errors. To impede their further spread is the aim of the present article.

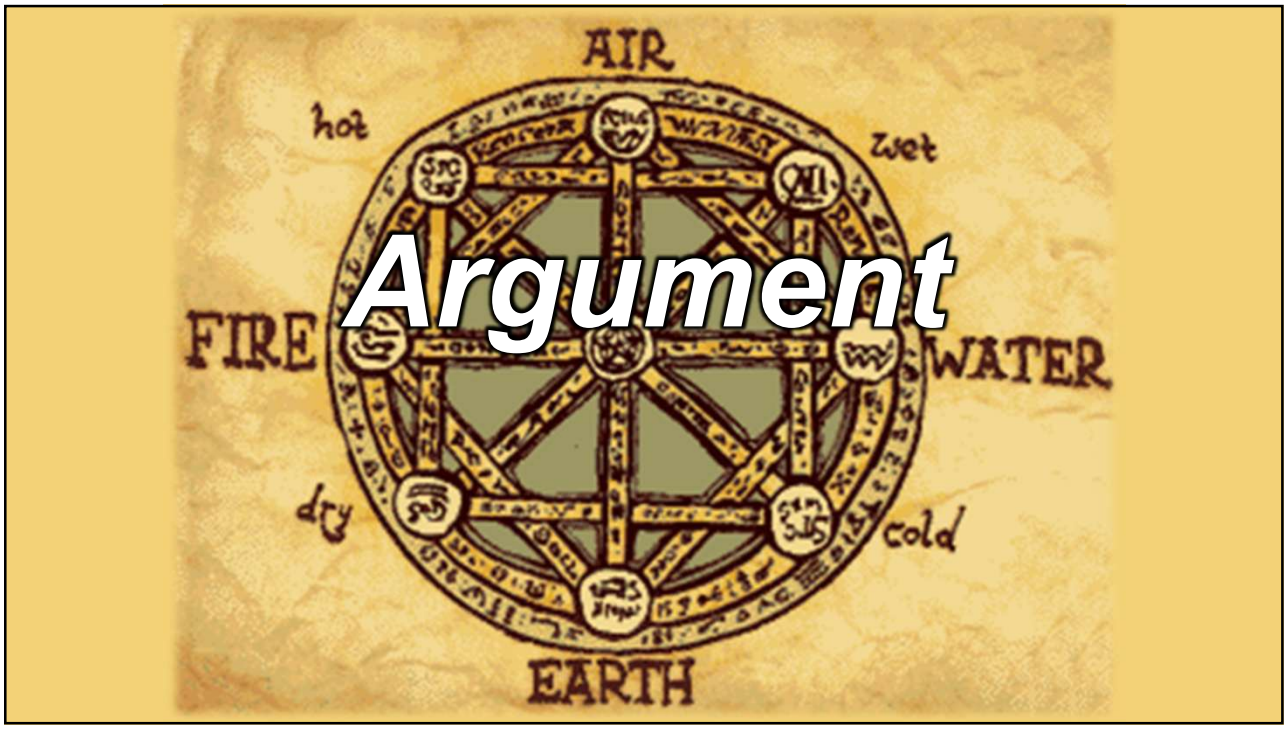
The first of the five errors occurs in Galileo's remark that "Nicholas Copernicus . . . was not only a Catholic, but a priest and a canon." [2] In a preliminary formulation [3] he had said: "Nicholas Copernicus was not only a Catholic, but a member of the regular clergy and a canon." [4] In both these versions, 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, 182.8). Evidently Marsi forgot that "Di Firenze, li 16 Febraio 1614" (NE, V, 294.18), the close of Galileo's letter to Dini, followed "the Florentine style which, as is known, from January to 24 March was a year behind the present modern style" (Marsi, p. 30, n. 1). Marsi himself (p. 124, n. 4) pointed out that a book dated 10 January 1514 by its Florentine publisher was actually issued, according to the modern style, in 1515 (cf. Marsi, p. 142, n. 1).

[1] NE, V, 293.9–10: "Niccolò Copernico 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 monastic order, but as an adjective it merely means "pious." 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 Wohlwill (1835–1923), *Galilei und sein Kampf für die Copernicanische Lehre* (Hamburg and Leipzig, 1909–1926), I, 521, where Wohlwill's paraphrase of Galileo's letter to Dini has Galileo say: "Copernicus was not only a Catholic, but also a pious canon" (ein frommer Kanonikus), without any mention of his belonging to a religious order. Although Wohlwill always cited NE in the published version of his book, he may actually have read Galileo's letter to Dini in an earlier edition which omitted the "e" (*Le opere di Galileo Galilei*, Florence, 1842–1856, ed. Eugenio Albèri, II, 72). Albèri took the text of the letter (with "e" omitted) from Giambattista Venturi, *Memorie e lettere inedite finora o disperse di Galileo Galilei* (Modena, 1818–1821, I, 209). Venturi in turn had obtained the text from Jacopo Morelli, who printed the letter for the first time (*I codici manoscritti volgari della libreria Naniana*, Venice, 1776, p. 193). Morelli had found a copy of the letter (the original in Galileo's own handwriting has not survived) in the collection of manuscripts he was describing for publication; twenty years later the









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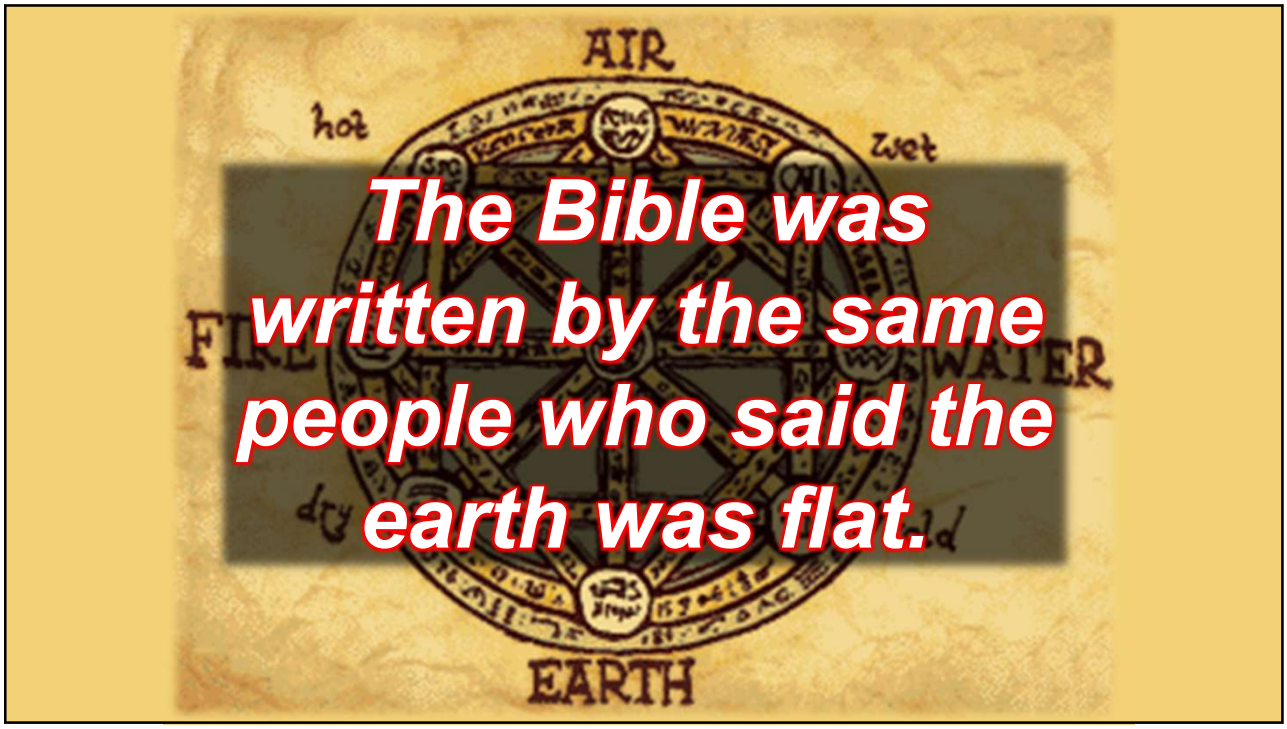
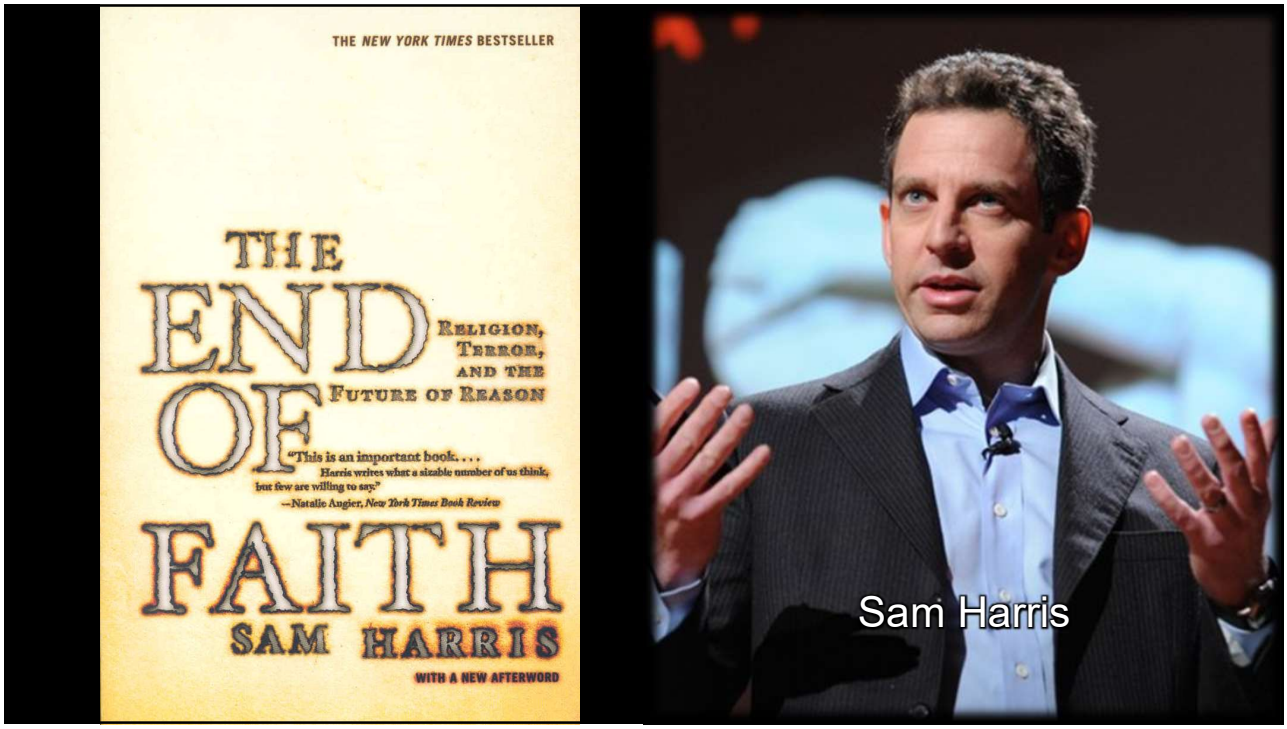


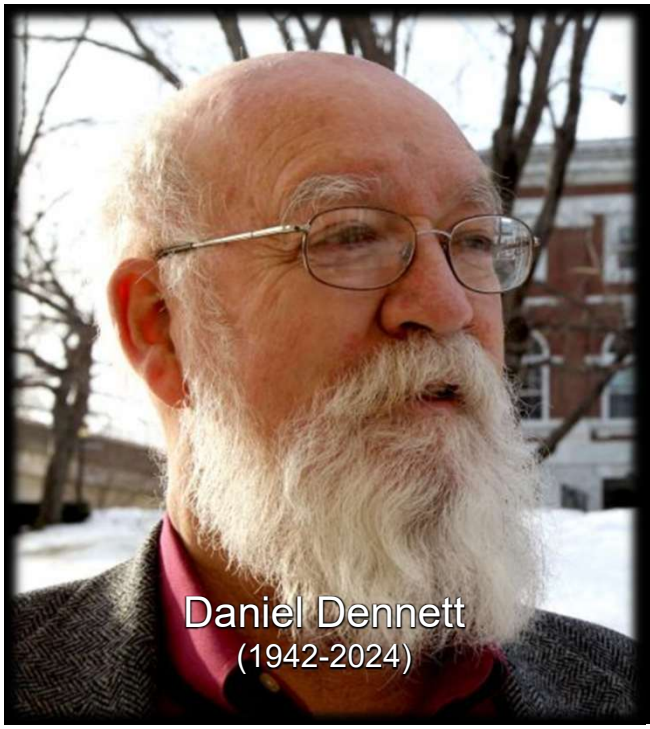
The Bible was written by the same people who said the earth was flat.

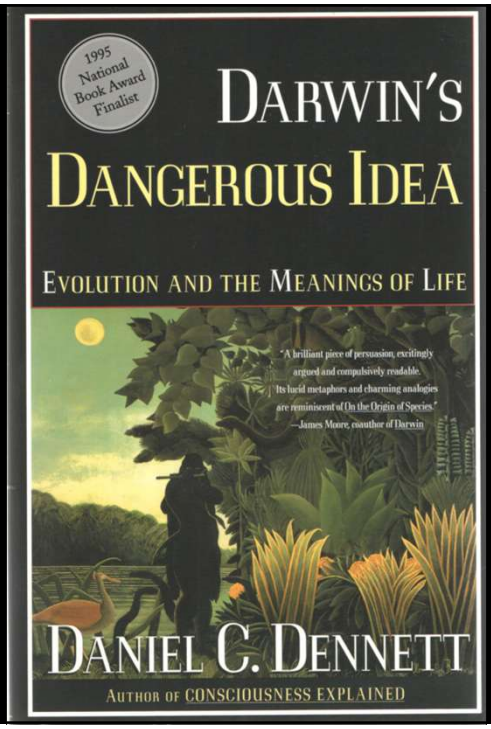

The bible was written by the same people who said the earth was flat.
THE BIBLE WAS WRITTEN BY
THE SAME PEOPLE WHO BELIEVED
THE EARTH WAS FLAT

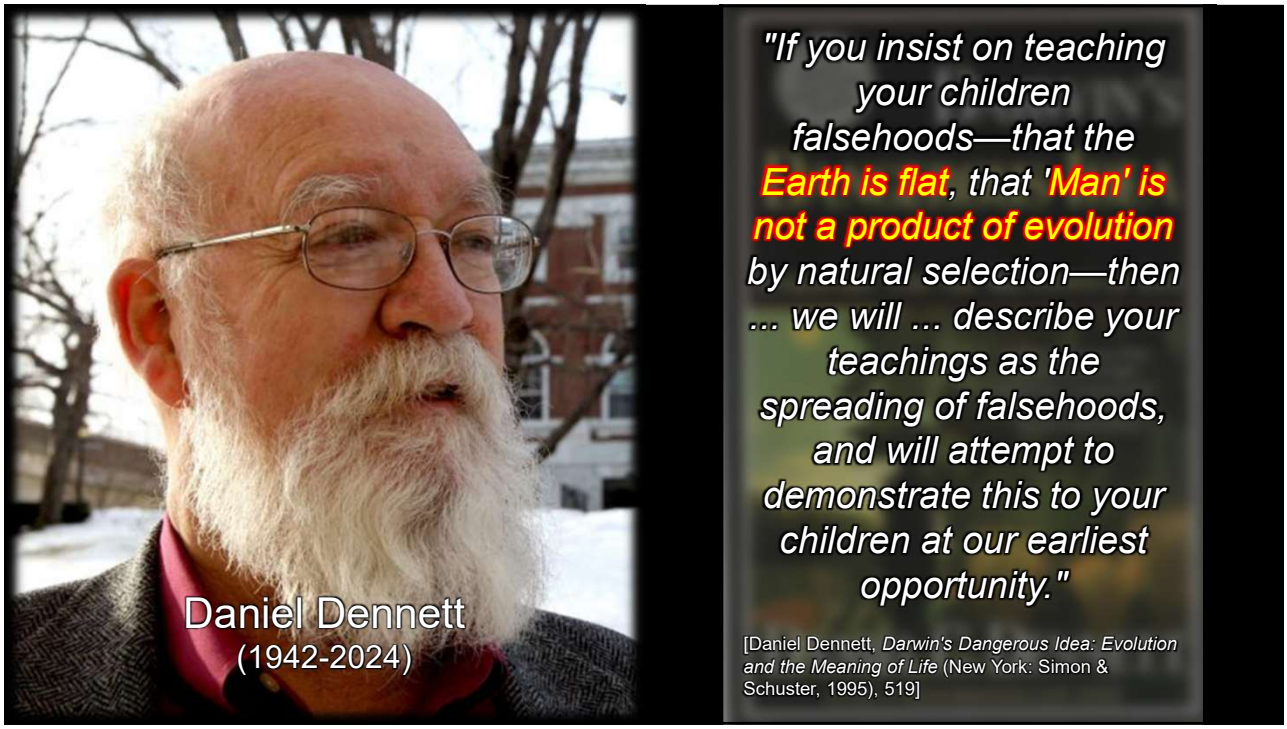

THE NEW YORK TIMES BESTSELLER
THE END OF FAITH
RELIGION, TERROR, AND THE FUTURE OF REASON
"This is an important book. . . . Harris writes what a sizable number of us think, but few are willing to say."
—Natalie Angier, New York Times Book Review
SAM HARRIS
WITH A NEW AFTERWORD
Sam Harris

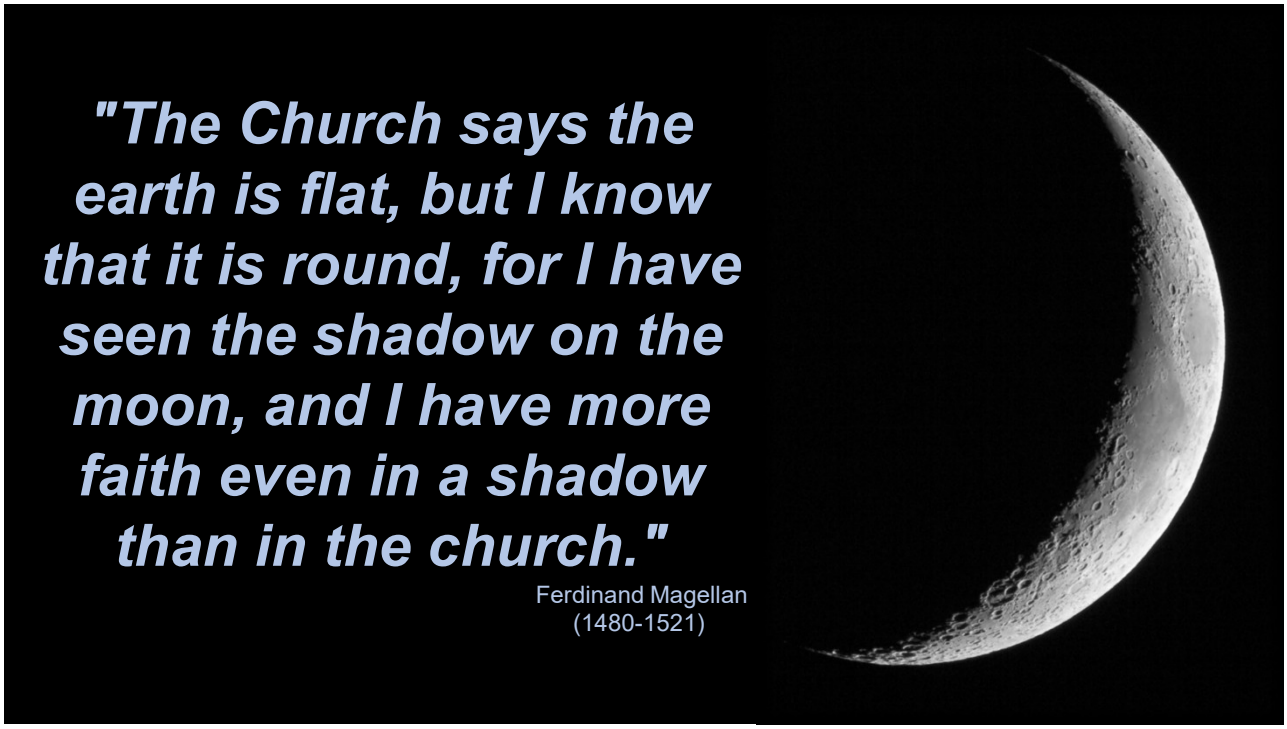
"The Bible, it seems certain, was the work of sand-strewn men and women who thought the earth was flat ... ."

[Sam Harris, *The End of Faith: Religion, Terror, and the Future of Reason* (New York: W. W. Norton, 2004), 45]






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]

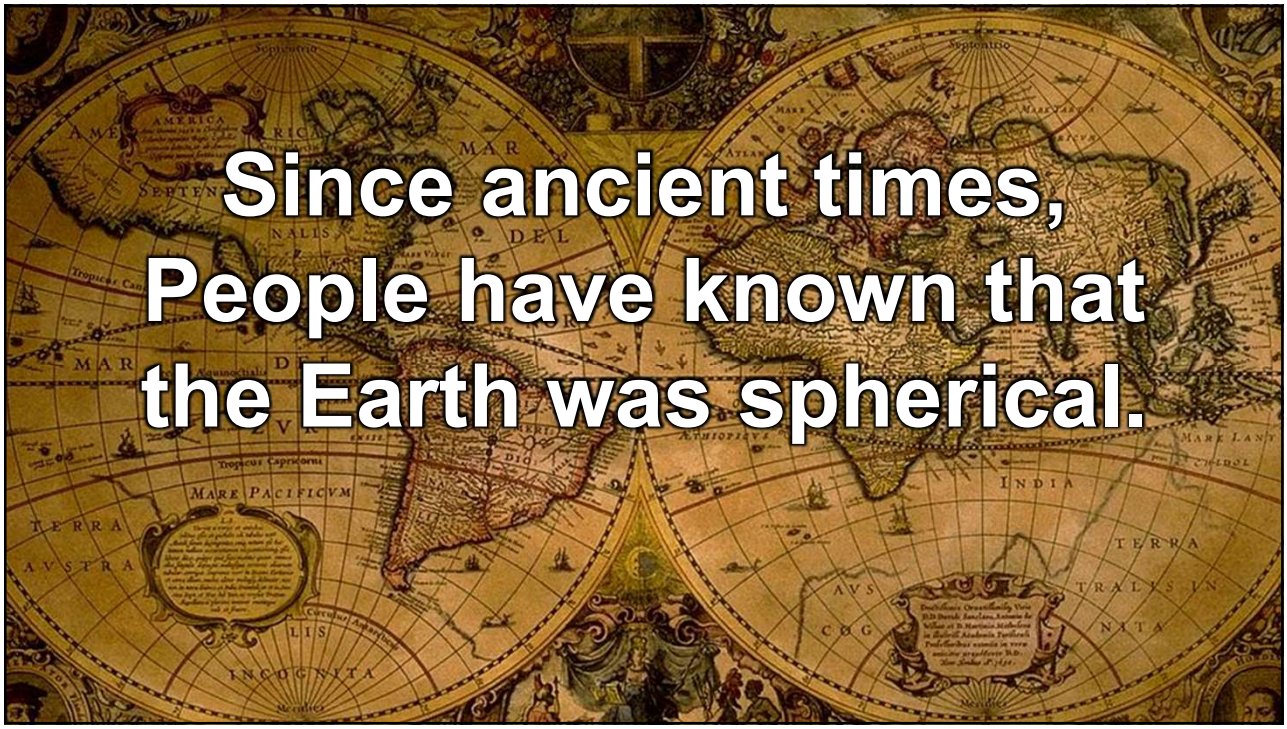

"The Church says the earth is flat, but I know that it is round, for I have seen the shadow on the moon, and I have more faith even in a shadow than in the church."
Ferdinand Magellan
(1480-1521)

"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]

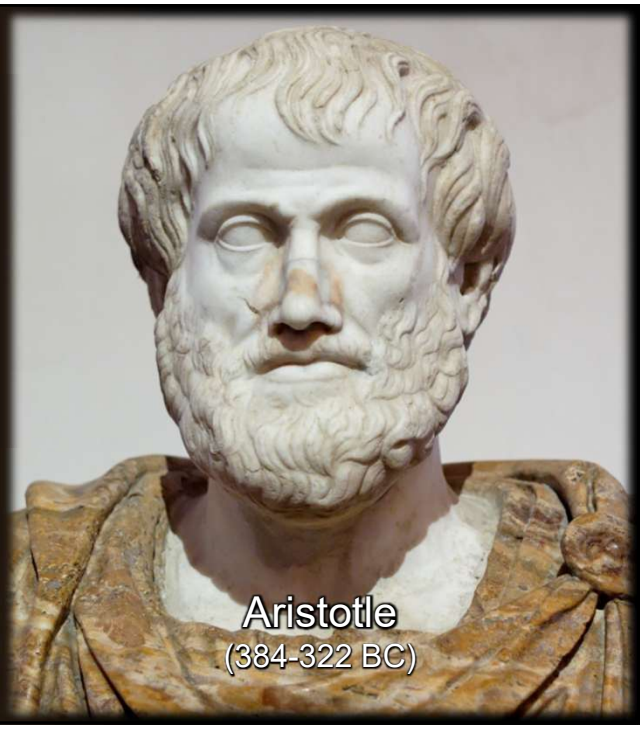
Barack Obama

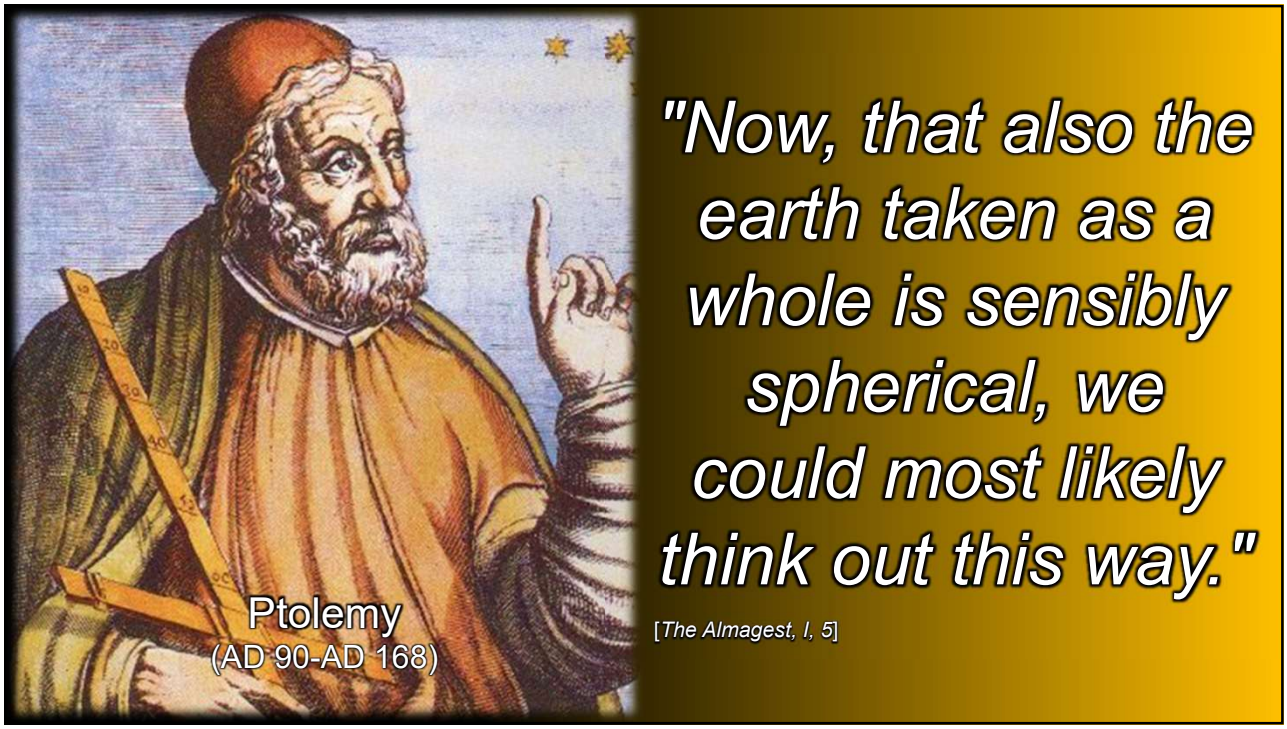
The Old Testament and the Flat Earth

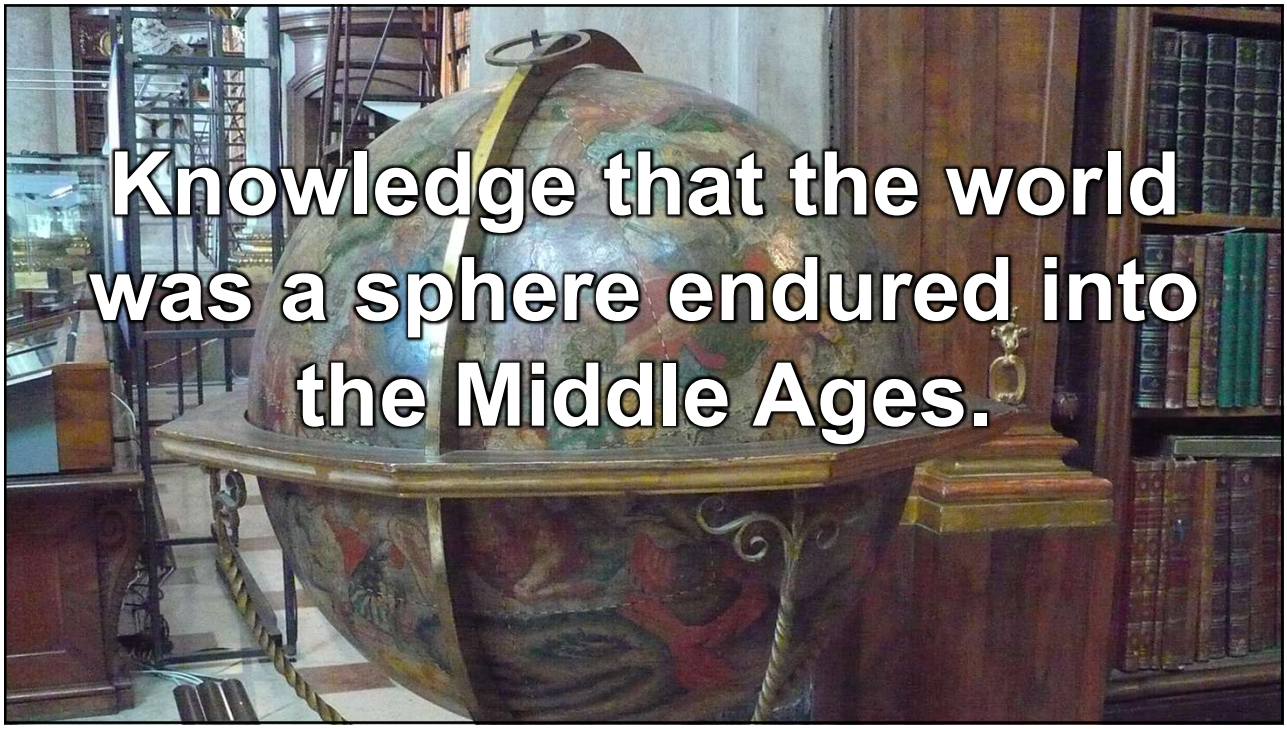


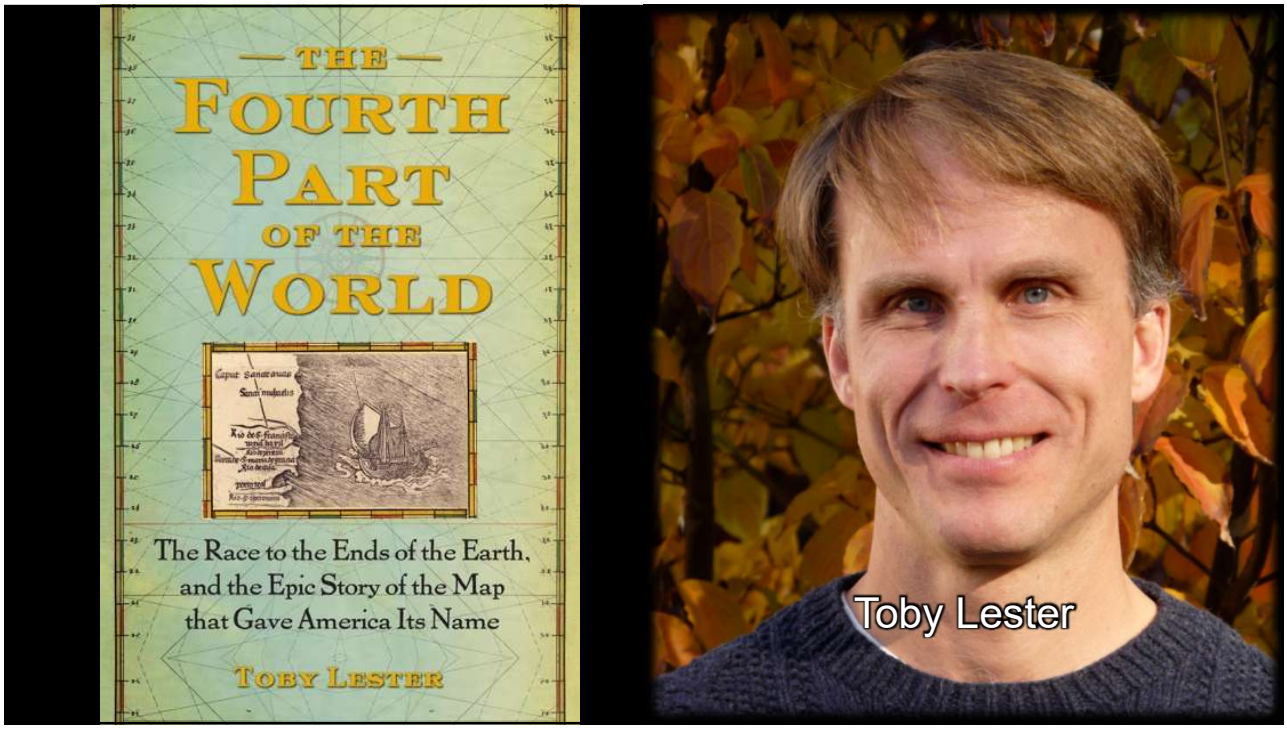
"[The earth's] shape must also be spherical."

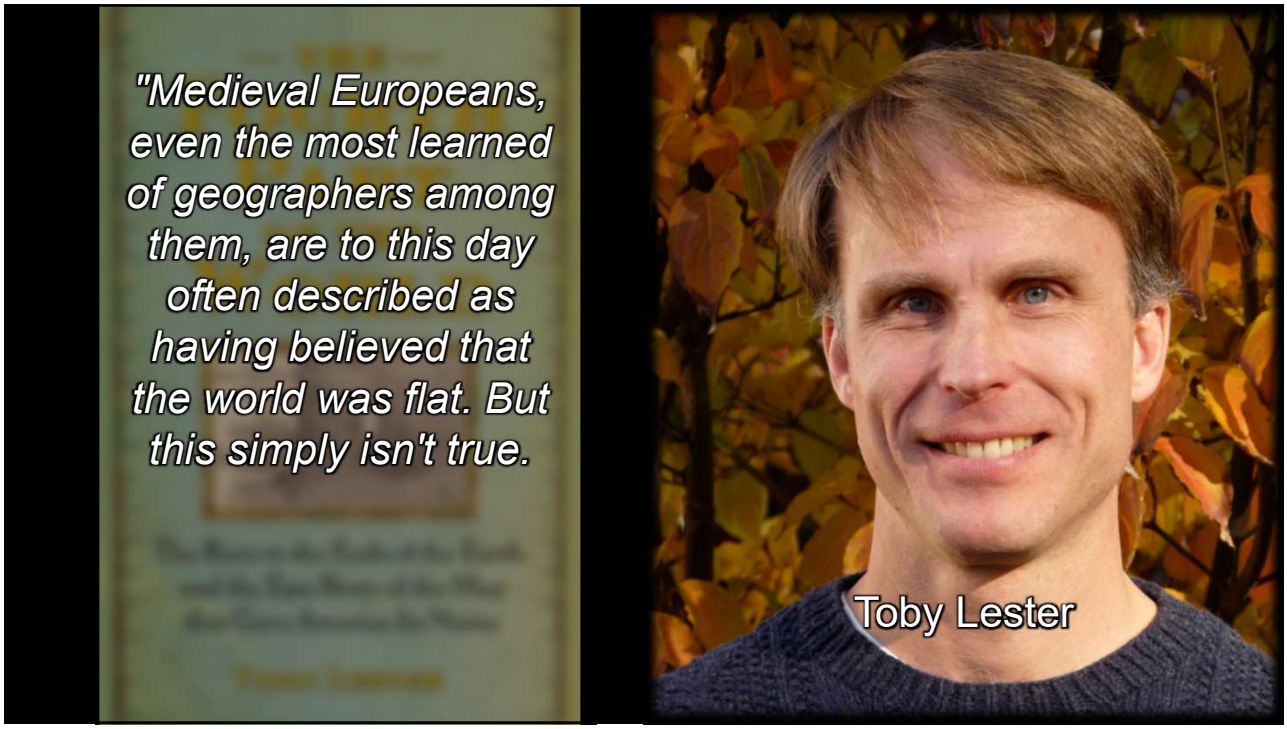
[*On the Heavens*, II, 14, 297ª9]




Ptolemy
(AD 90-AD 168)
"Now, that also the earth taken as a whole is sensibly spherical, we could most likely think out this way."
[The Almagest, I, 5]

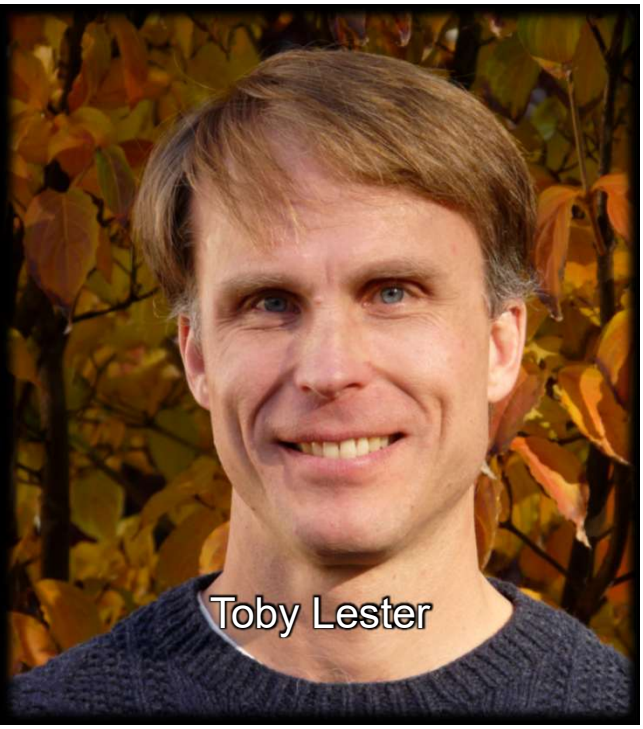

Knowledge that the world was a sphere endured into the Middle Ages.

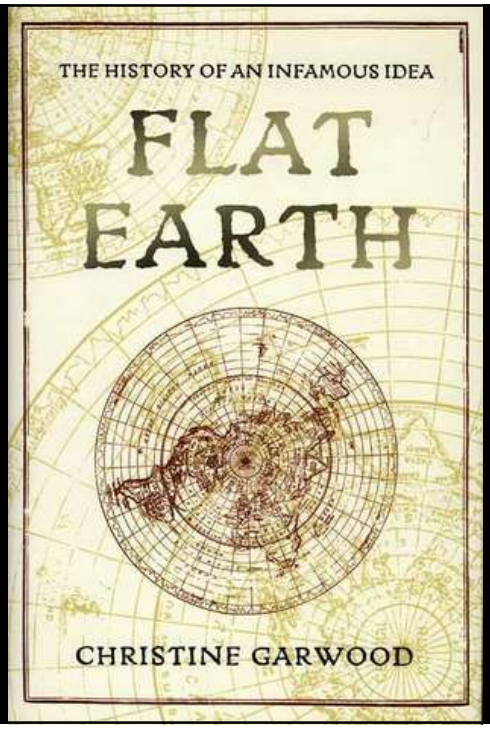

THE
FOURTH
PART
OF THE
WORLD
The Race to the Ends of the Earth,
and the Epic Story of the Map
that Gave America Its Name
TOBY LESTER
Toby Lester


"Medieval Europeans,
even the most learned
of geographers among
them, are to this day
often described as
having believed that
the world was flat. But
this simply isn't true.
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]



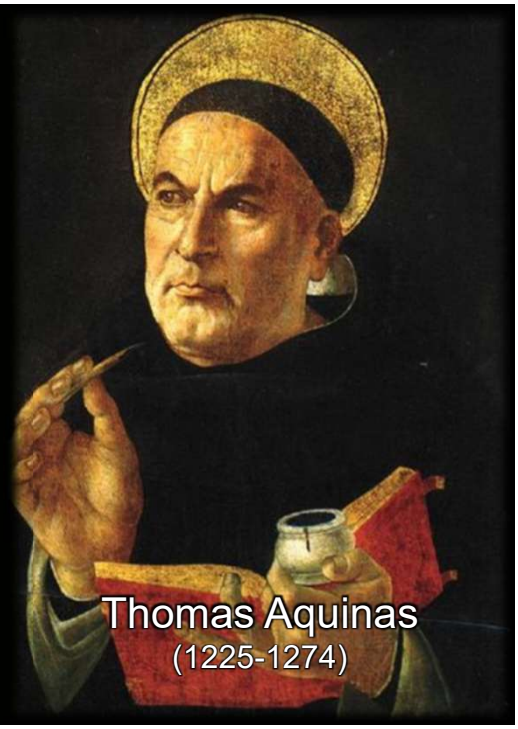



"Although very few writers of the patristic period (c. first to eighth centuries) argued in favour of a flat earth, Lactantius [240-320] and Cosmas [Indicopleustes, d. 550] were held up as
Christine Garwood

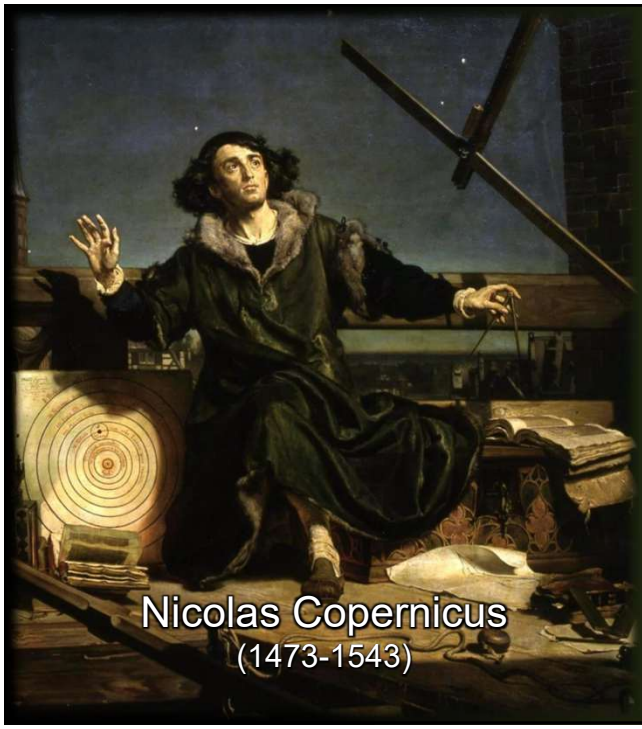

"typical medieval thinkers by Victorian rationalists writers who ... were set on sidelining religious belief as damaging to the progress of scientific truth."
[Flat Earth: The History of an Infamous Idea (New York: Thomas Dunne Books, St. Martin's Press, 2007), 10]
Christine Garwood

"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)

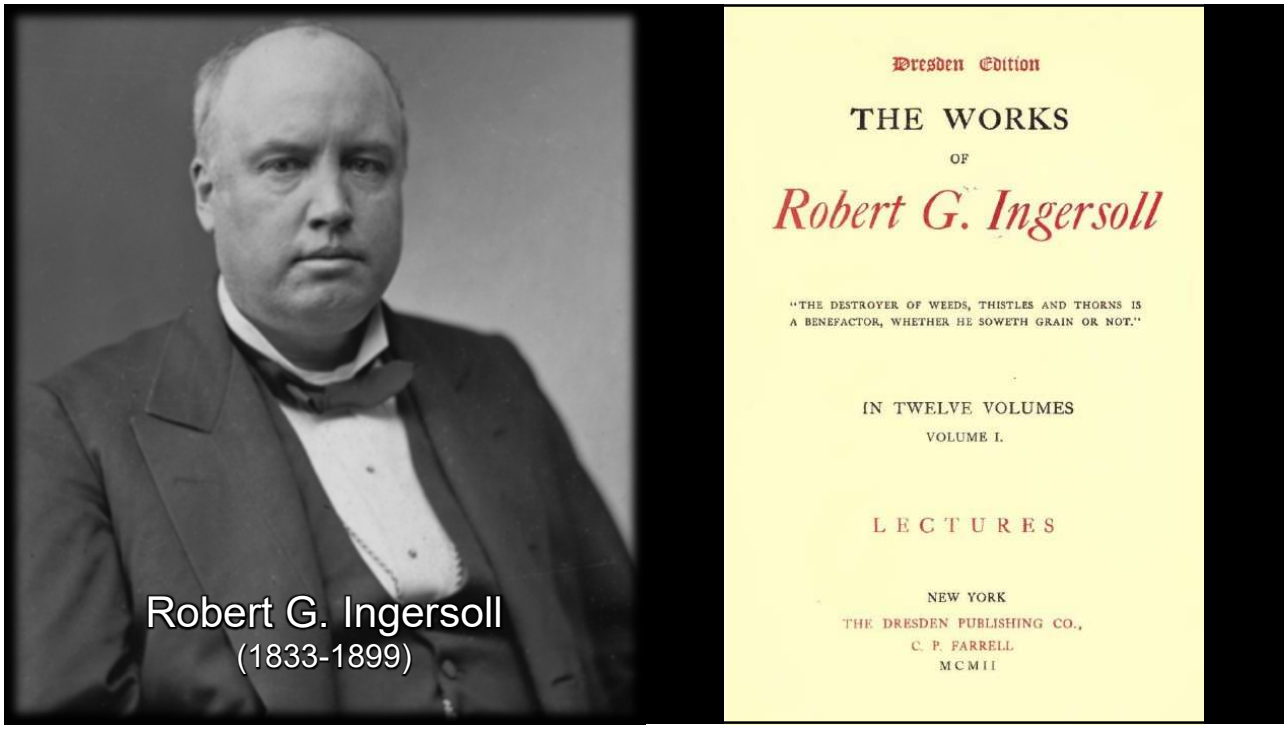


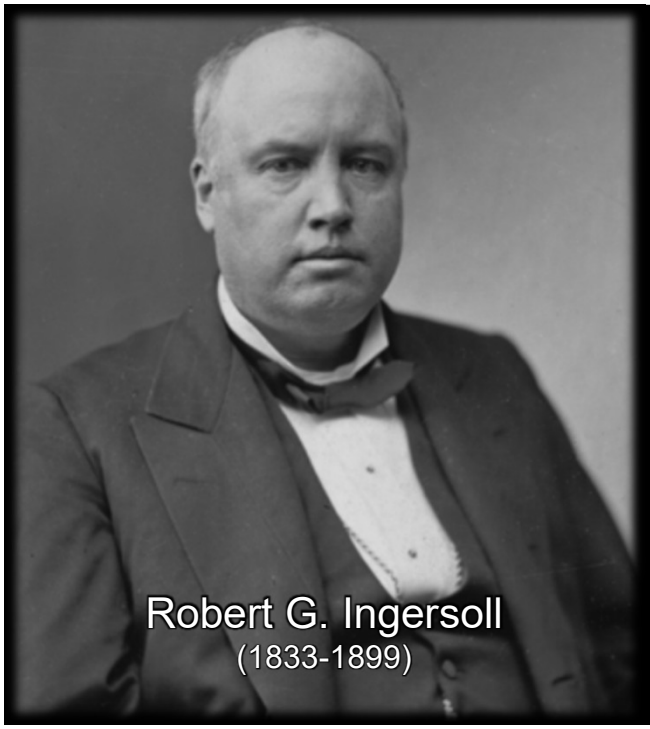
Nicolas Copernicus
(1473-1543)

"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]


"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 in a shadow than in the church."
Ferdinand Magellan
(1480-1521)
Fake News!


Robert G. Ingersoll
(1833-1899)
Dresden Edition
THE WORKS
OF
Robert G. Ingersoll
"THE DESTROYER OF WEEDS, THISTLES AND THORNS IS A BENEFACTOR, WHETHER HE SOWETH GRAIN OR NOT."
IN TWELVE VOLUMES
VOLUME I.
LECTURES
NEW YORK
THE DRESDEN PUBLISHING CO.,
C. P. FARRELL
MCMII

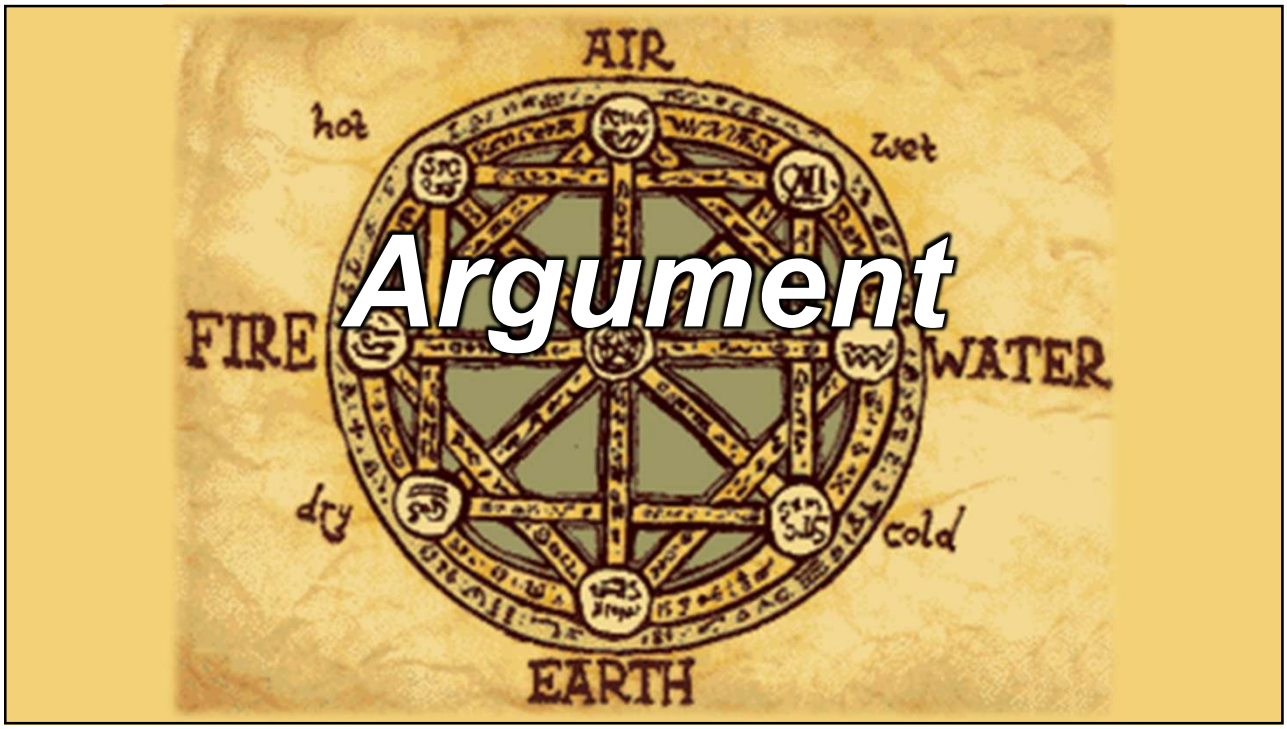


"It is a blessed thing that in every age some one has had individuality enough and courage enough to stand by his own convictions, — some one who had the grandeur to say his say. I believe it was Magellan who said, 'The church says the earth is flat; but I have seen its shadow on the moon, and I have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

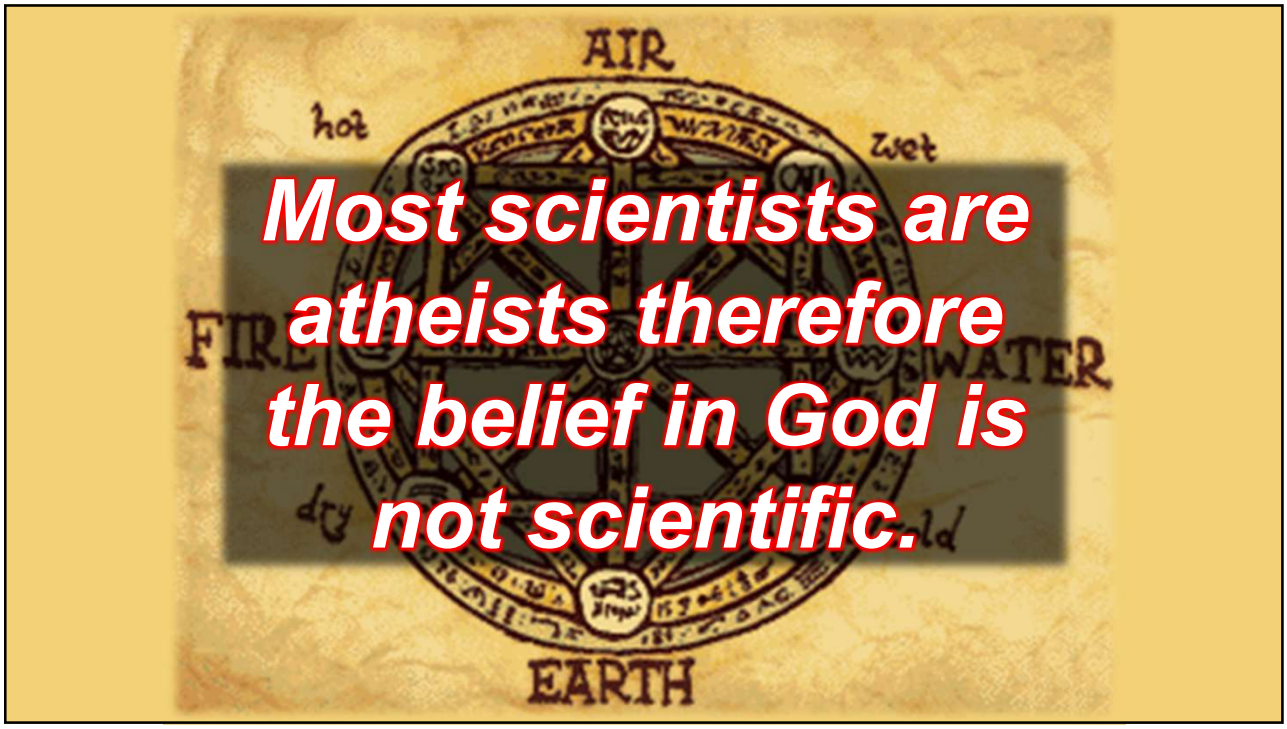
[Robert G. Ingersoll, "Individuality," https://infidels.org/library/historical/robert-ingersoll-individuality/, accessed 06/22/22]

*"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."*

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



Argument



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

POLLING AND ANALYSIS

NOVEMBER 5, 2009

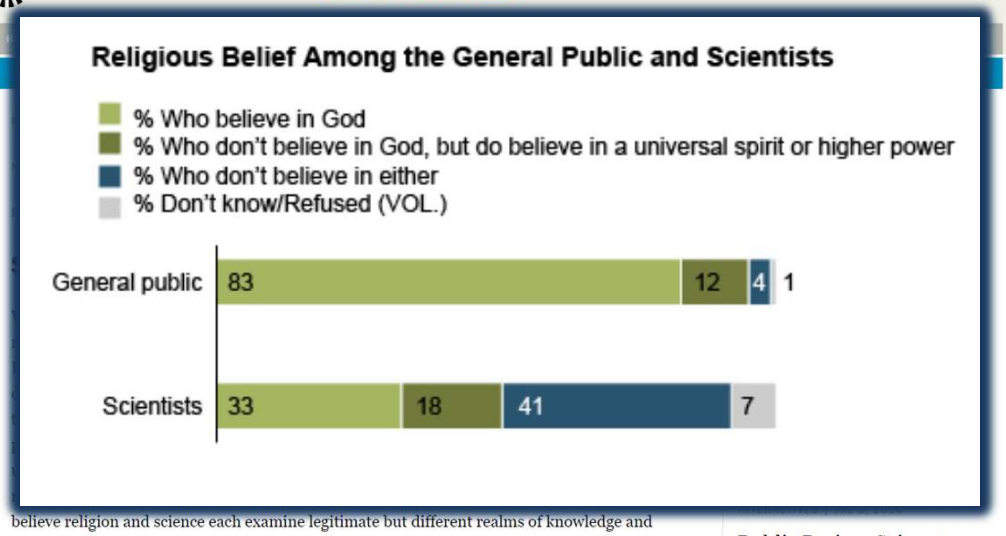
RELIGION AND SCIENCE IN THE UNITED STATES

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.

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

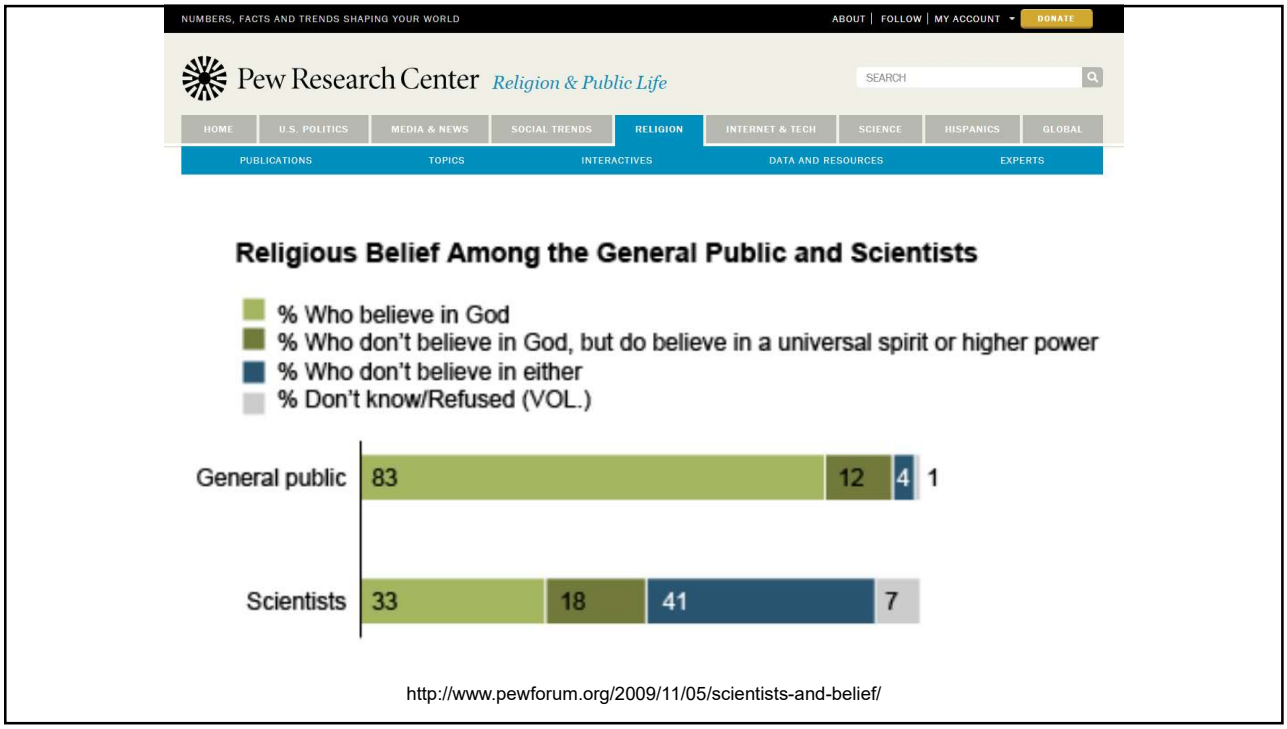
NUMBERS, FACTS AND TRENDS SHAPING YOUR WORLD
ABOUT | FOLLOW | MY ACCOUNT DONATE
Pew Research Center Religion & Public Life
SEARCH



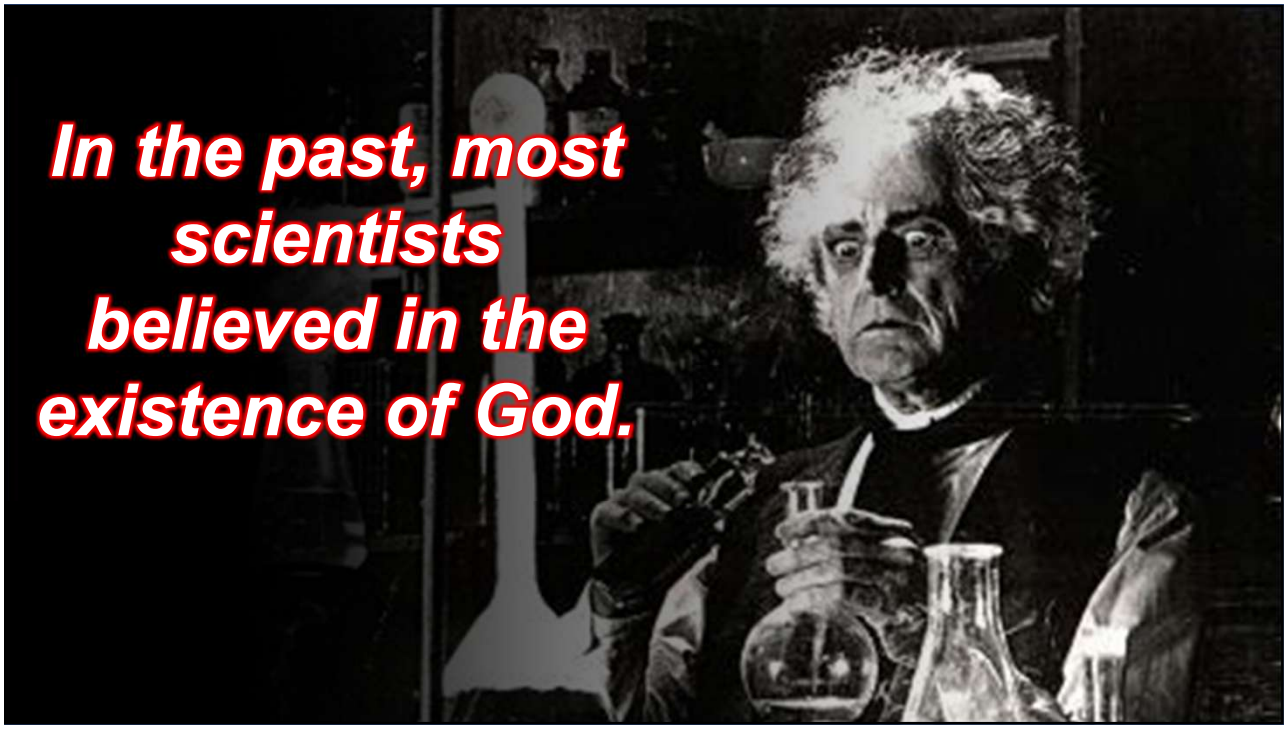
believe religion and science each examine legitimate but different realms of knowledge and those who see science as the only true way of understanding the universe.

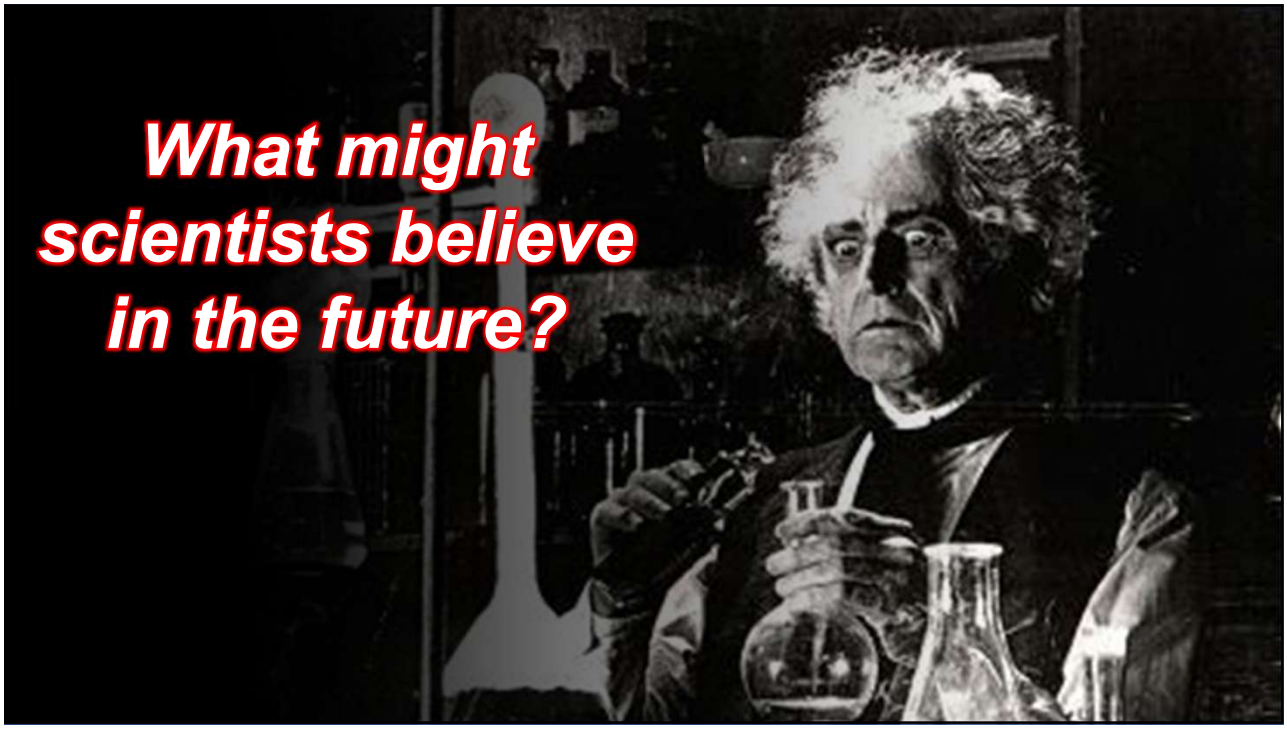
Public Praises Science;

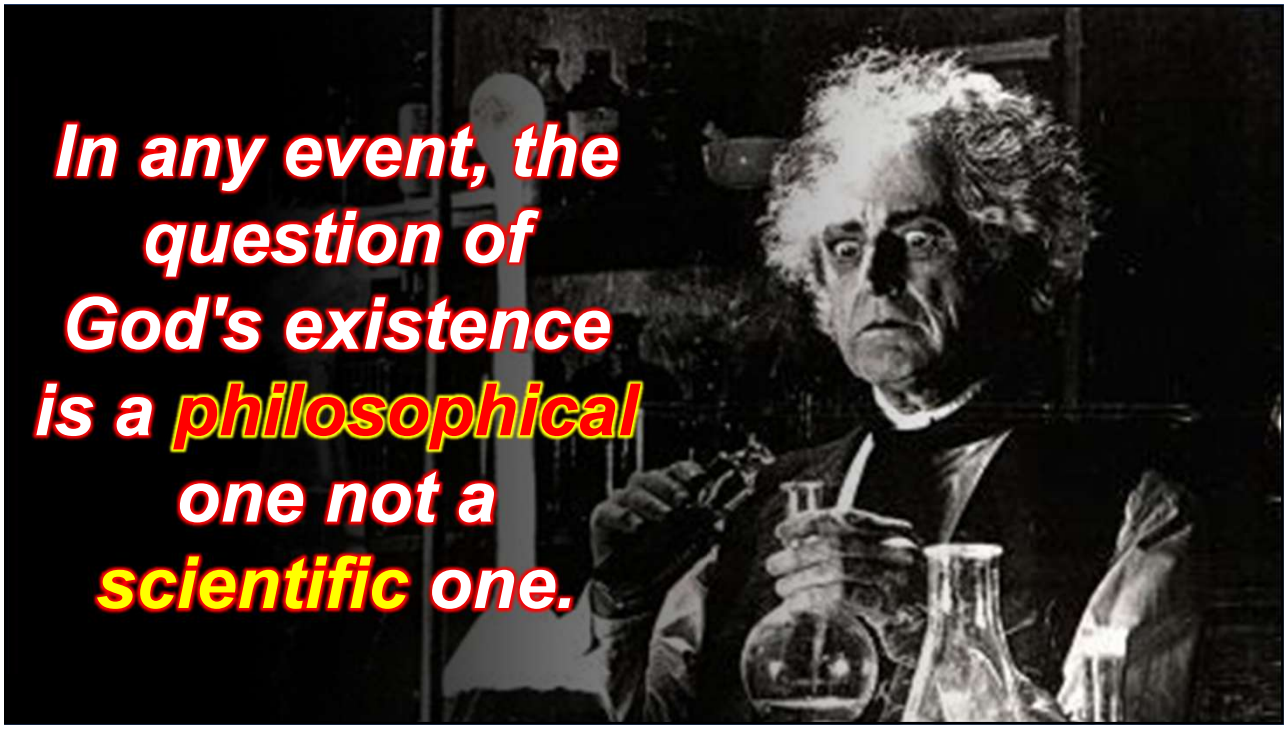
http://www.pewforum.org/2009/11/05/scientists-and-belief/, accessed 11/06/19



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


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

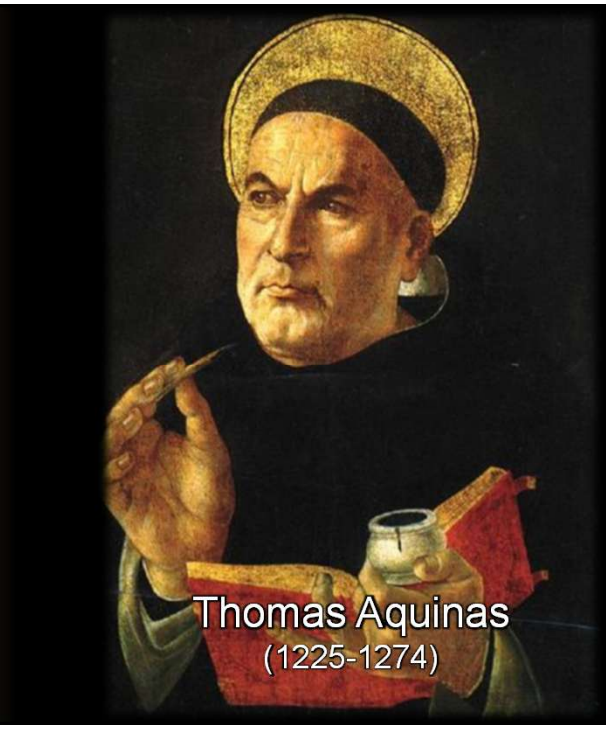

What might scientists believe in the future?


In any event, the question of God's existence is a philosophical one not a scientific one.


philosophical
vs.
scientific

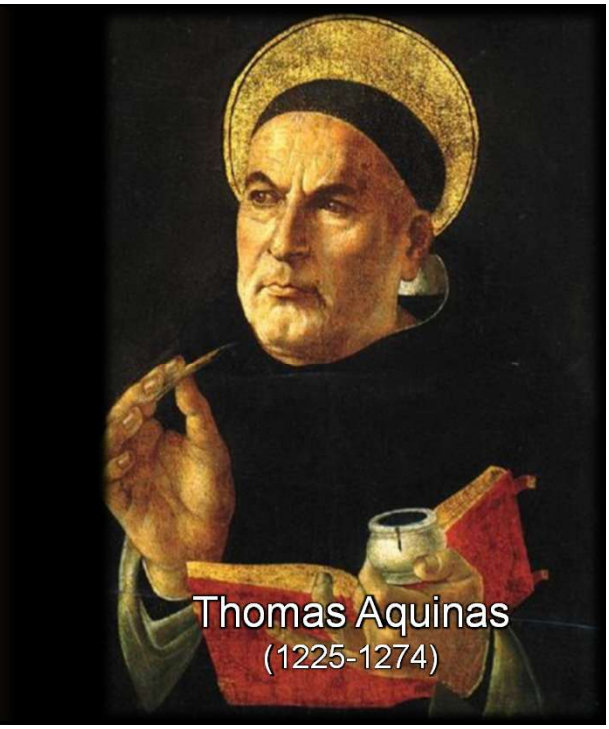
"Sensible things [are that] from which human reason takes the origin of its knowledge."

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



"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)]



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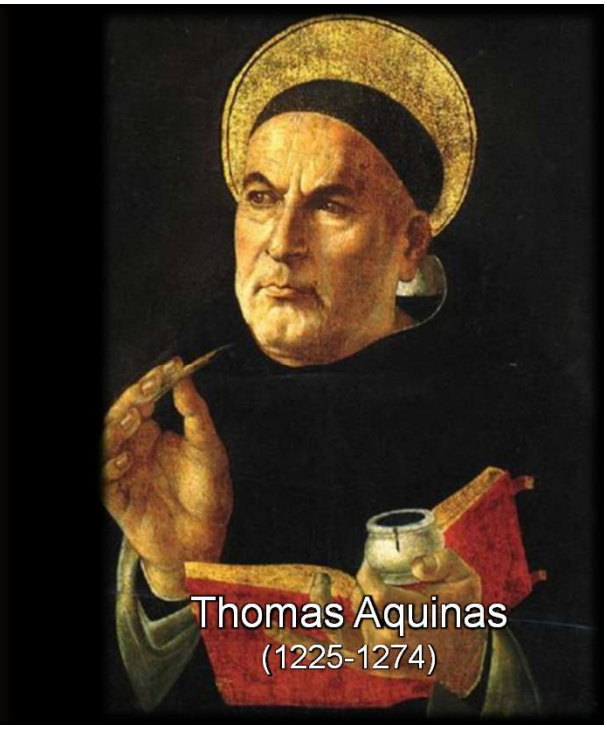

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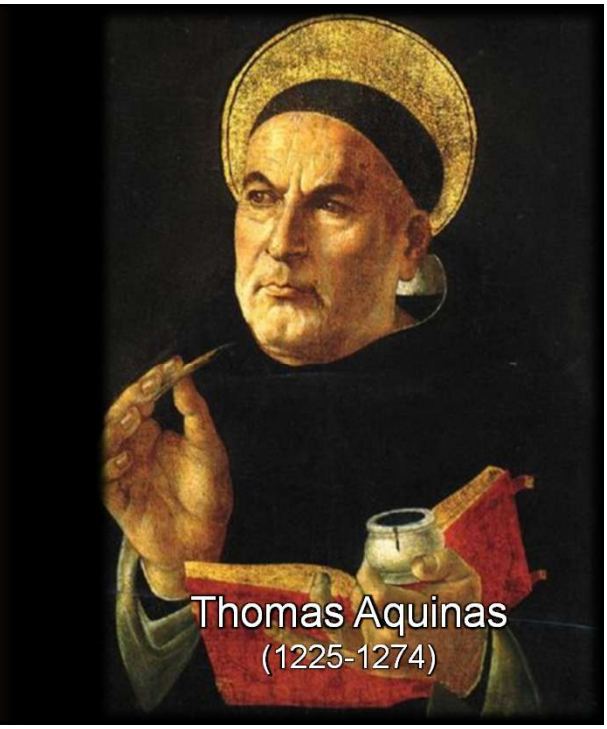
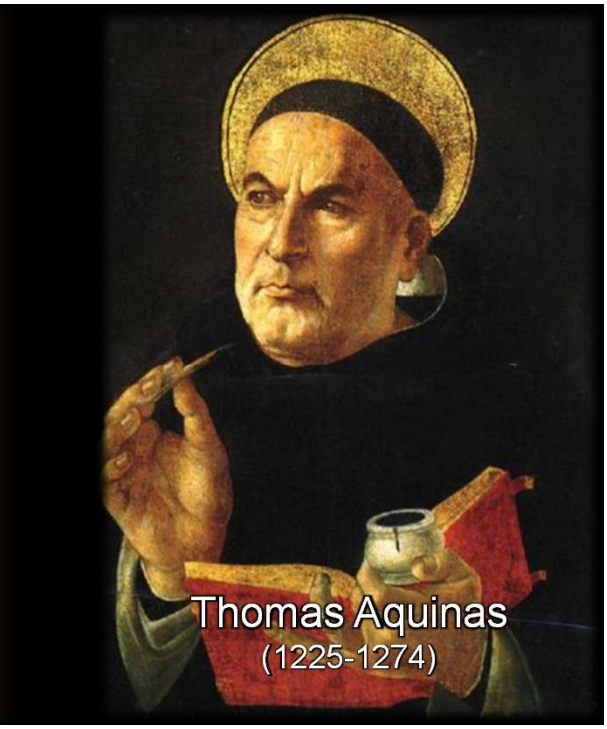


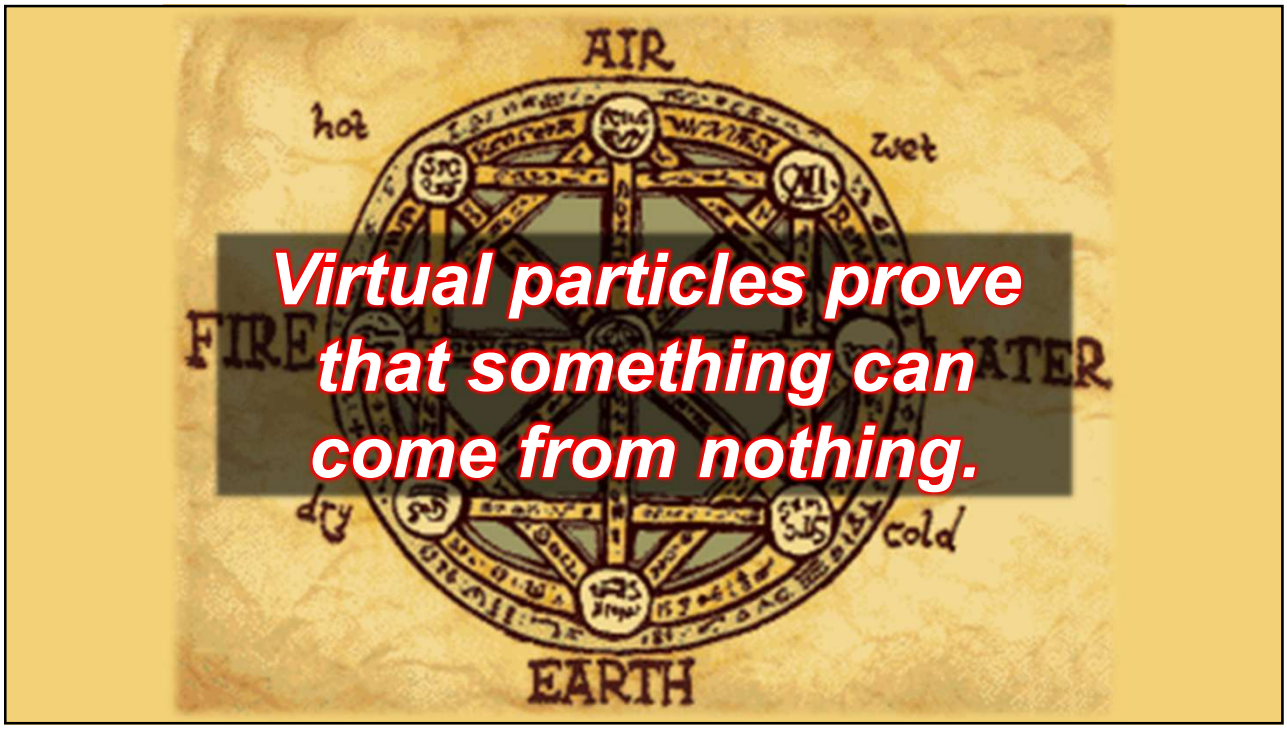
"Our knowledge of principles themselves is derived from sensible things."

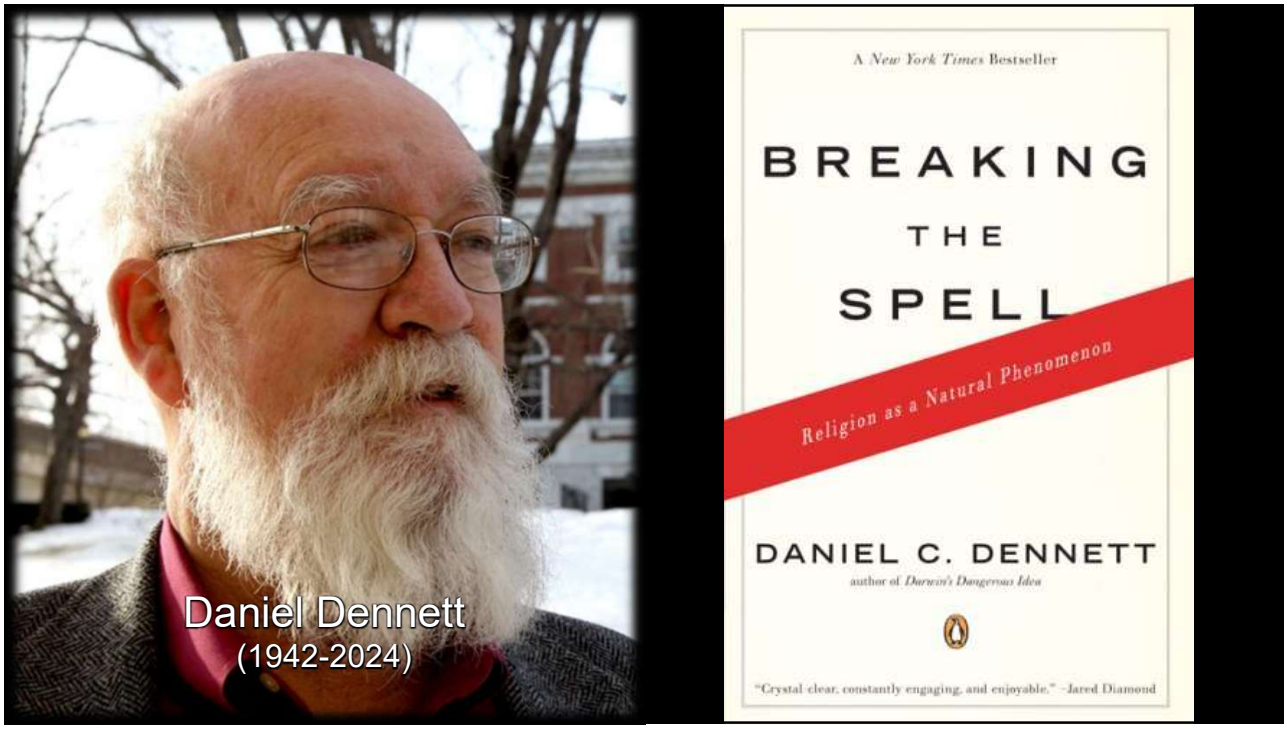
[Thomas Aquinas, *Summa Contra Gentiles*, II, 83, §32. Trans. James F. Anderson (Notre Dame: University of Notre Dame Press, 1975): II, 282]

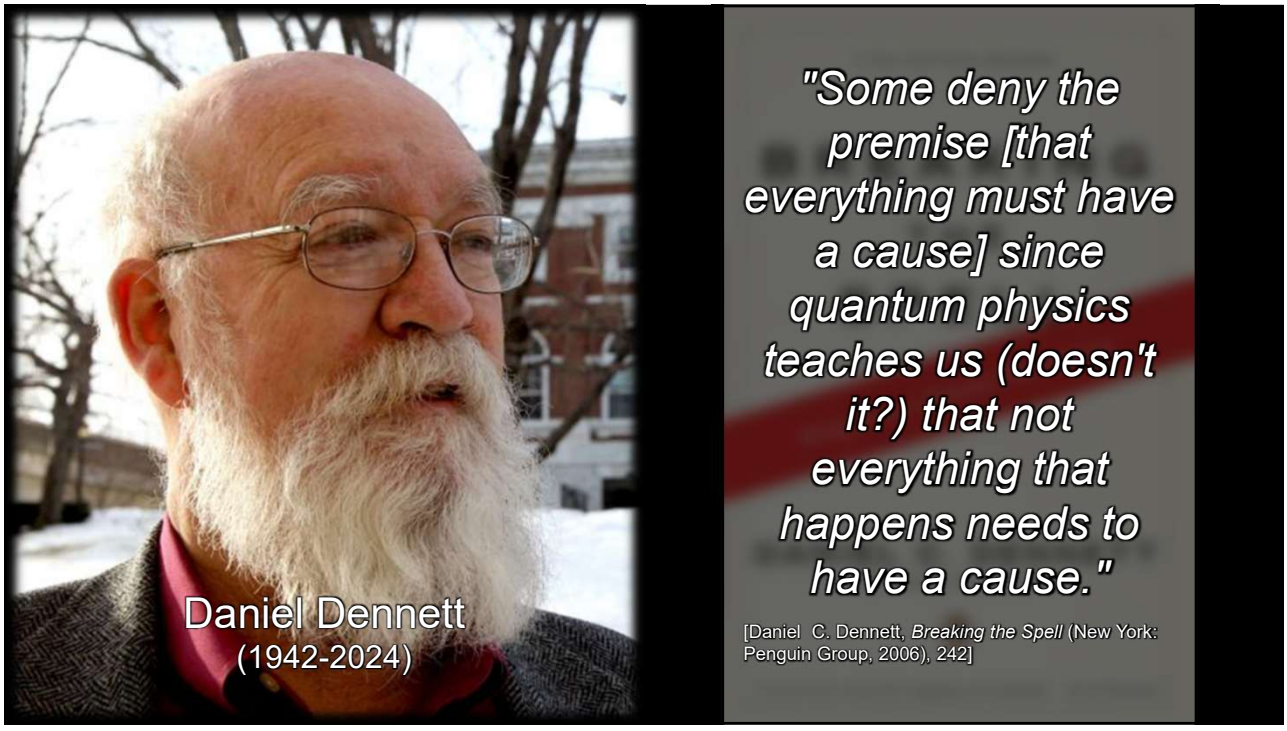


Thomas Aquinas
(1225-1274)

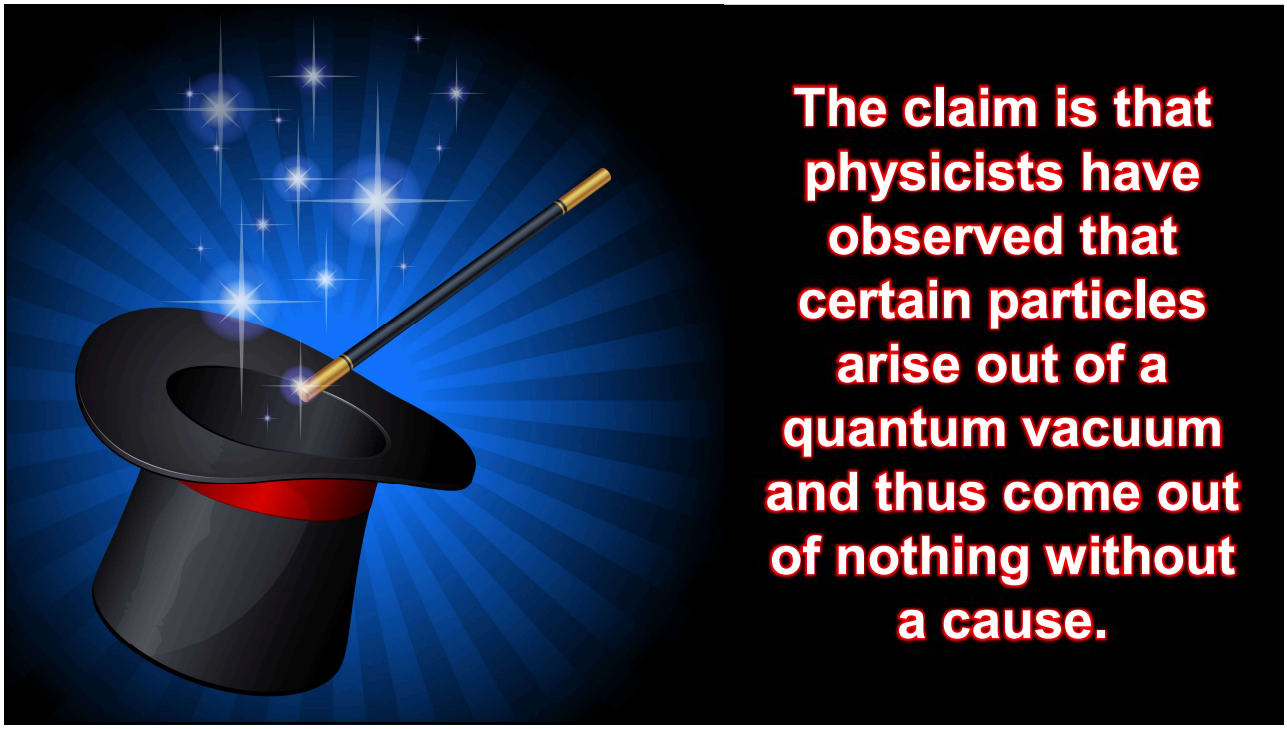
Argument

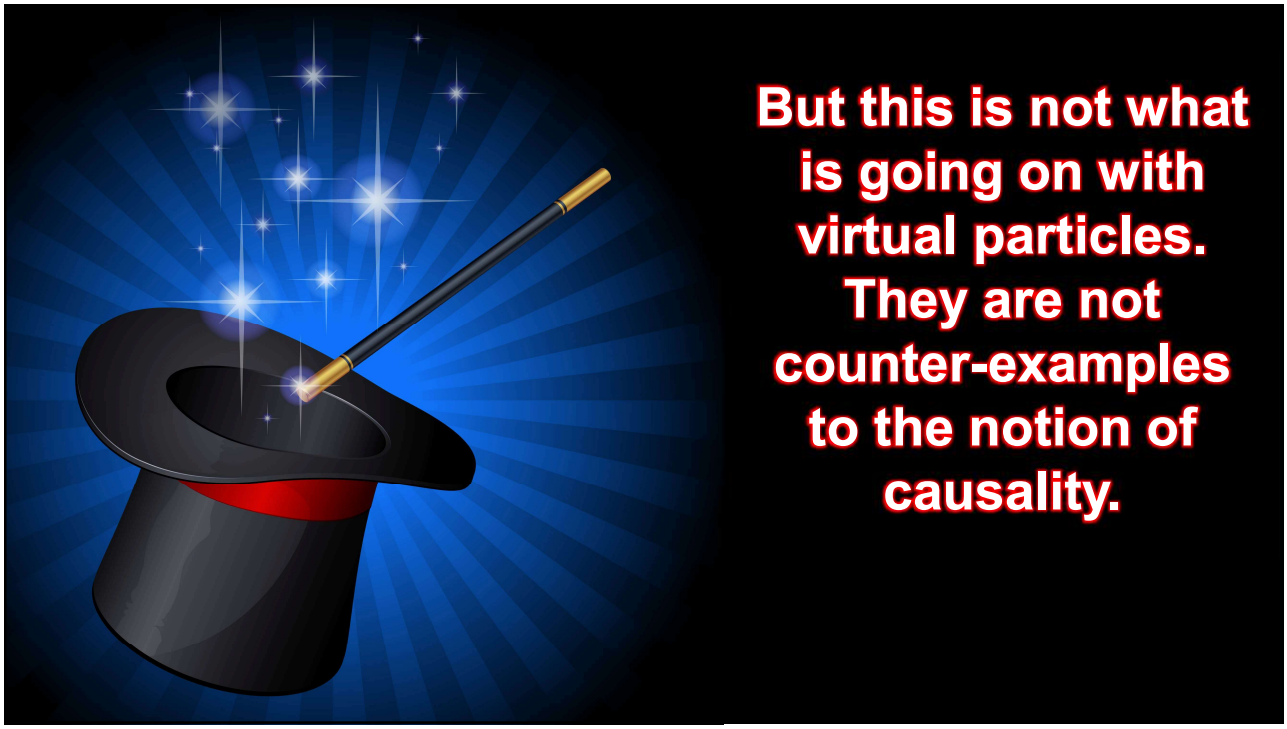

AIR
hot
wet
FIRE
WATER
dry
cold
EARTH
Virtual particles prove that something can come from nothing.


Daniel Dennett
(1942-2024)
A New York Times Bestseller
BREAKING THE SPELL
Religion as a Natural Phenomenon
DANIEL C. DENNETT
author of Darwin's Dangerous Idea
"Crystal clear, constantly engaging, and enjoyable." –Jared Diamond

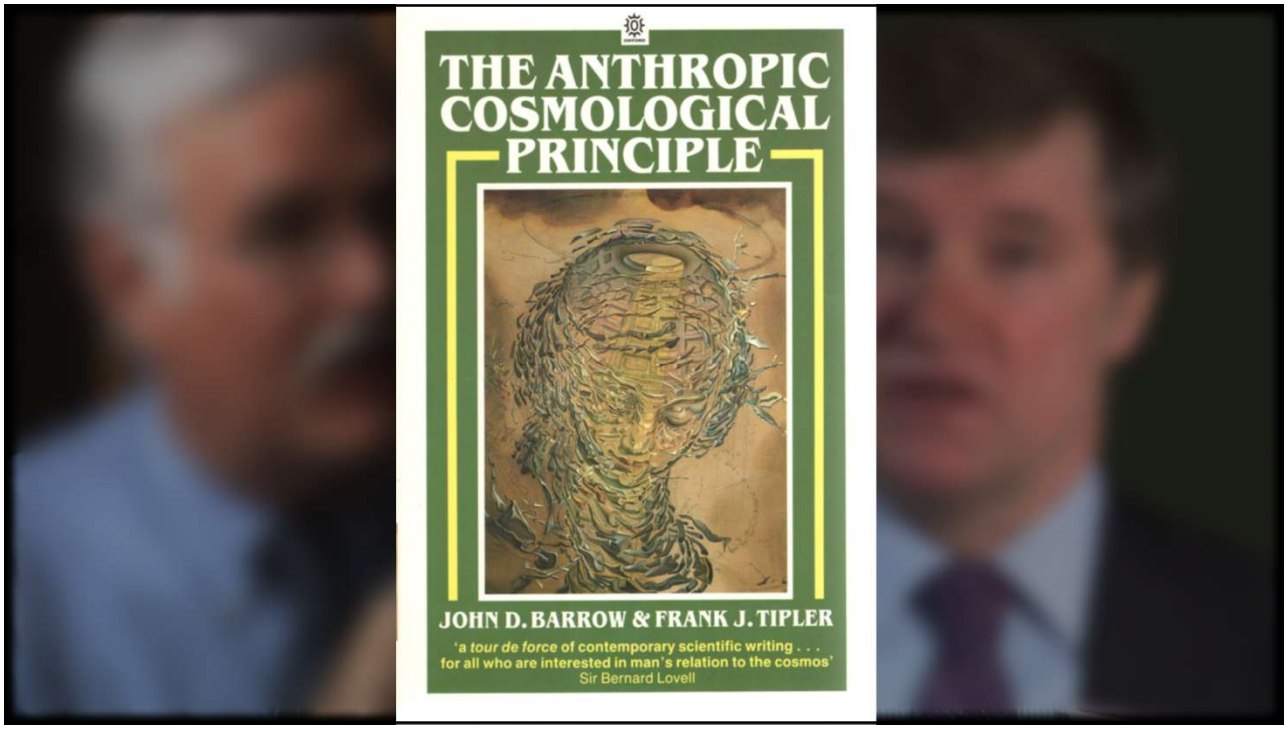

Daniel Dennett
(1942-2024)
"Some deny the premise [that everything must have a cause] since quantum physics teaches us (doesn't it?) that not everything that happens needs to have a cause."
[Daniel C. Dennett, *Breaking the Spell* (New York: Penguin Group, 2006), 242]


Answer


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.

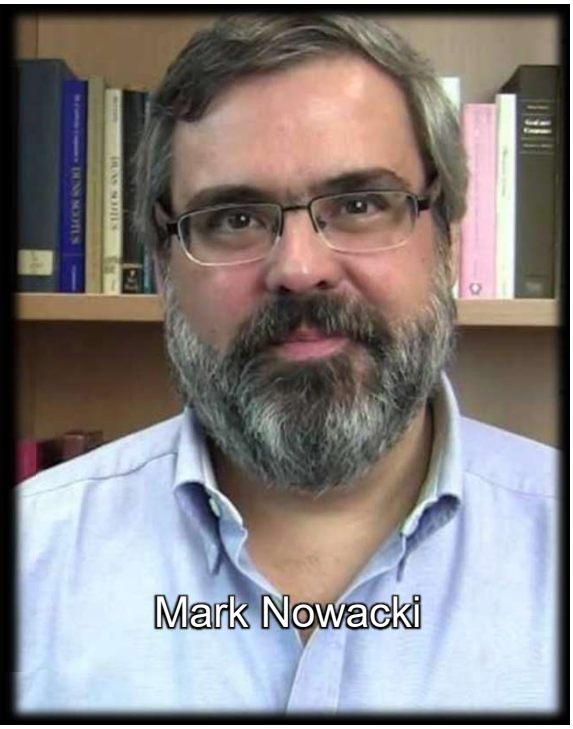

Frank Tipler
John Barrow


THE ANTHROPIC COSMOLOGICAL PRINCIPLE
JOHN D. BARROW & FRANK J. TIPLER
'a tour de force of contemporary scientific writing . . . for all who are interested in man's relation to the cosmos'
Sir Bernard Lovell

*"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."*

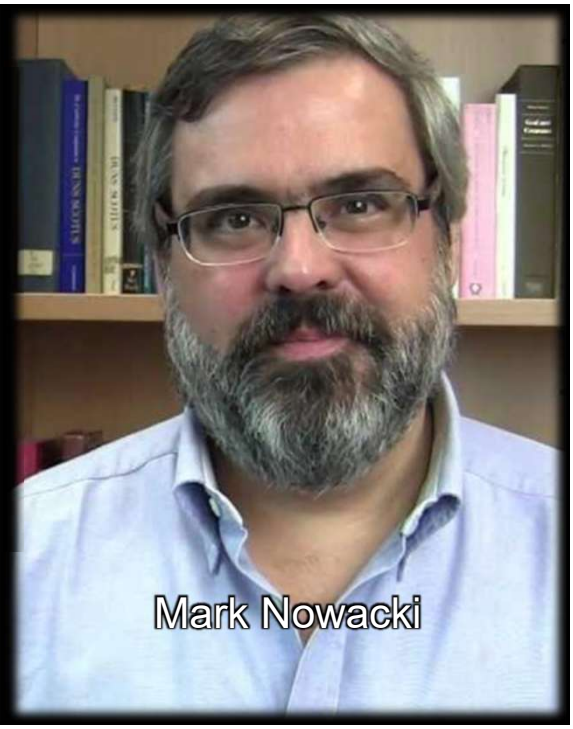
[John D. Barrow and Frank J. Tipler, *The Anthropic Cosmological Principle* (Oxford: Oxford University Press, 1986), 440, 441]

"... 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.

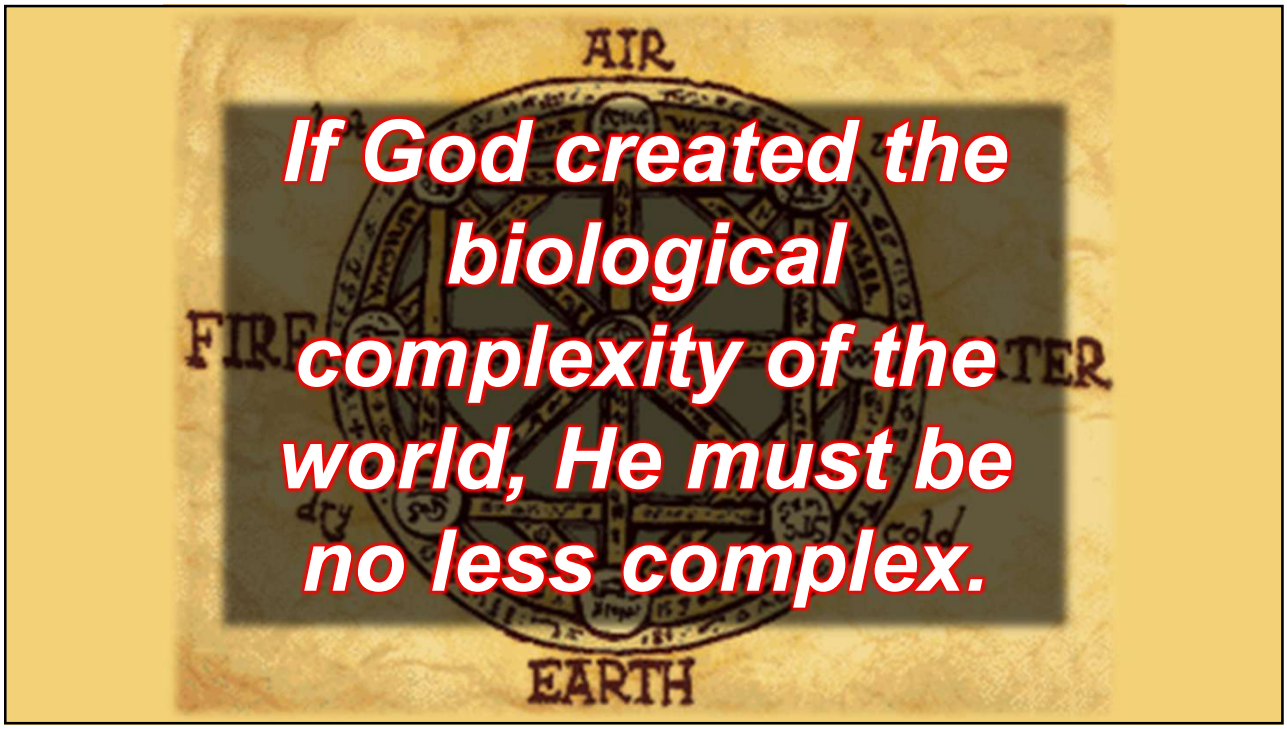


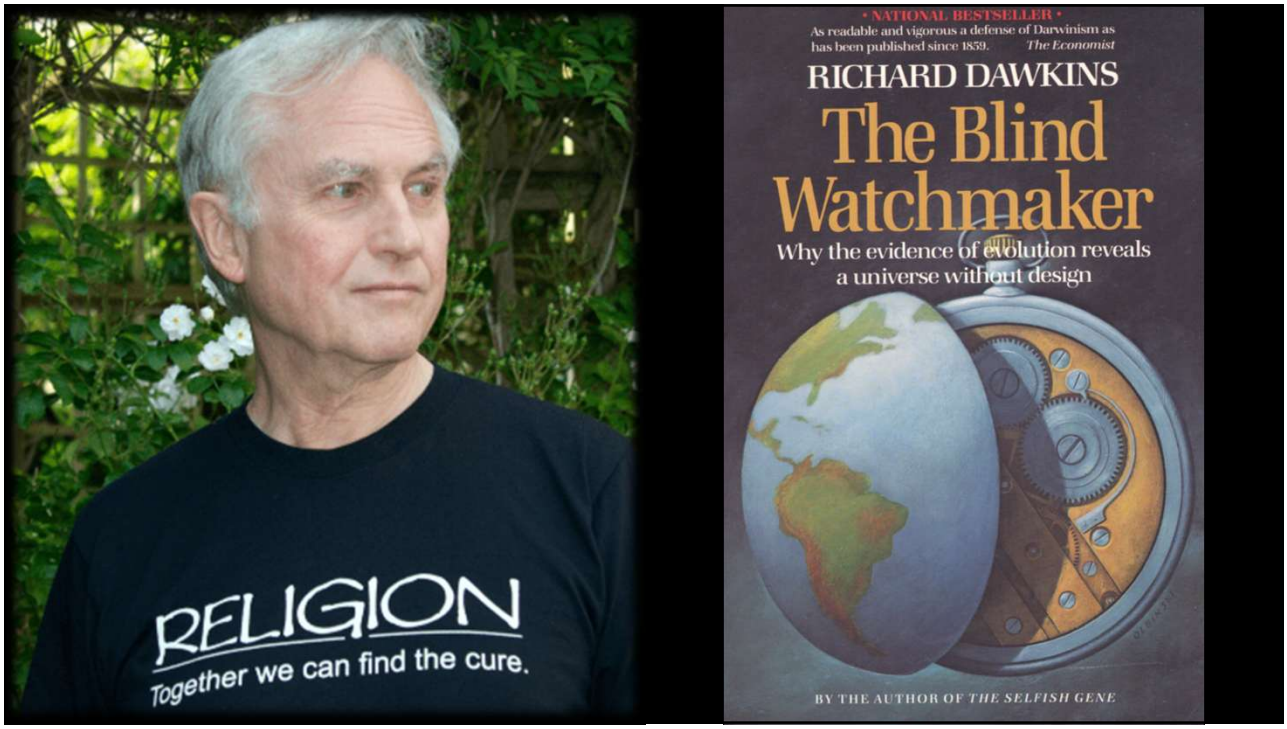
"So, whatever the full causal account of virtual particles might be, it is clear that their arising is not a case of something coming to be out of nothing."

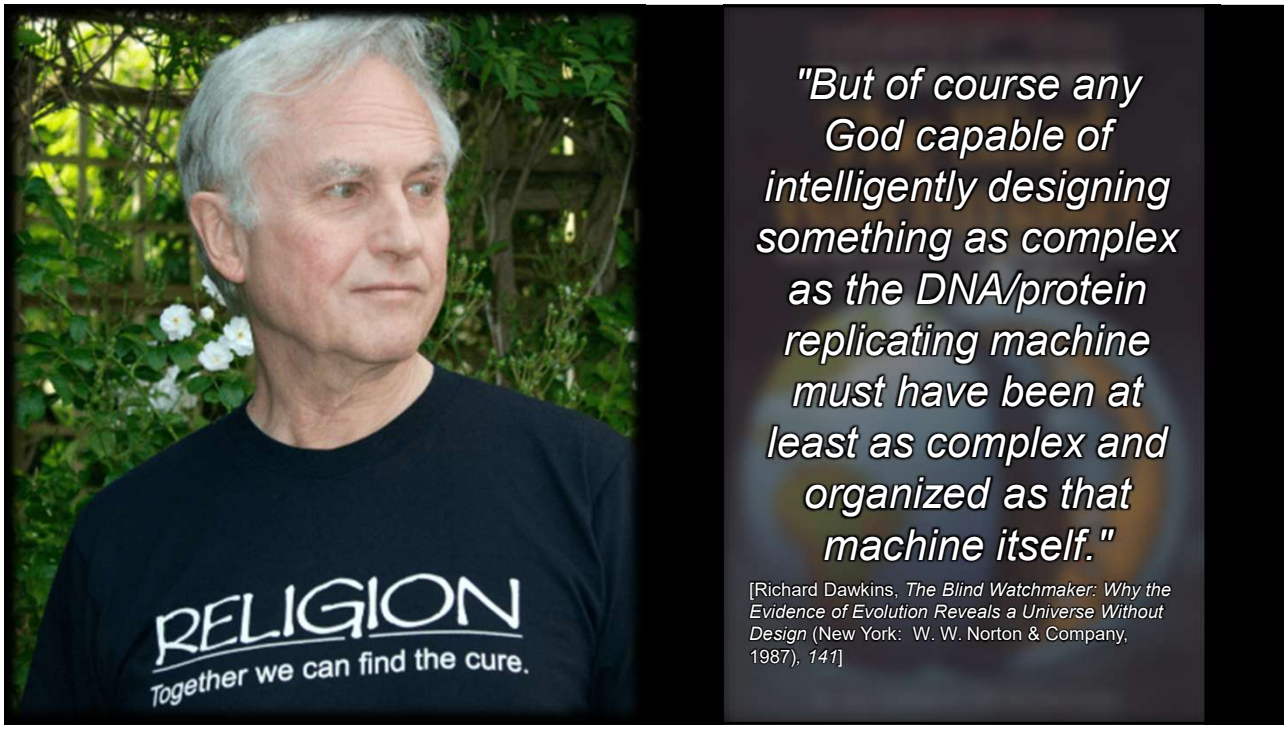
[Mark R. Nowacki, "Whatever Comes to Be Has a Cause of Its Coming to Be: A Thomistic Defense of the Principle of Sufficient Reason" *The Thomist* 62 (1998): 291-302]

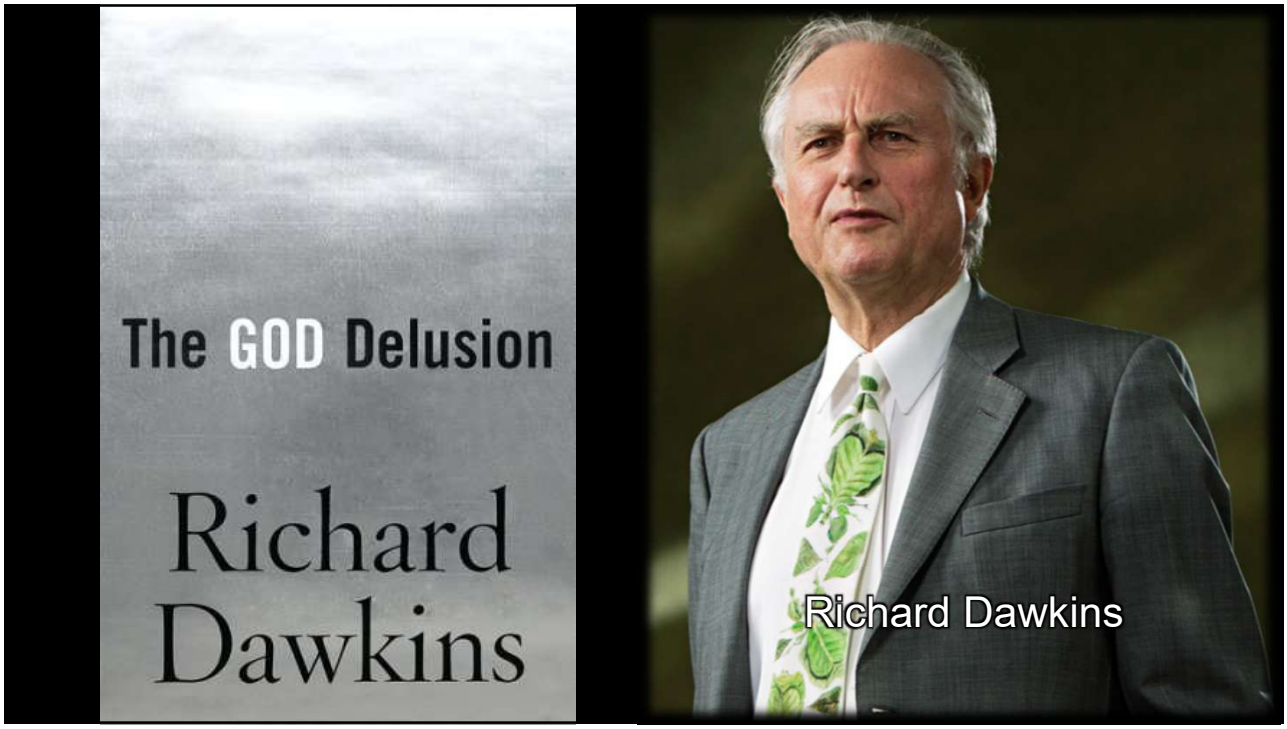


Argument


AIR
FIRE
EARTH
dry
cold
If God created the biological complexity of the world, He must be no less complex.

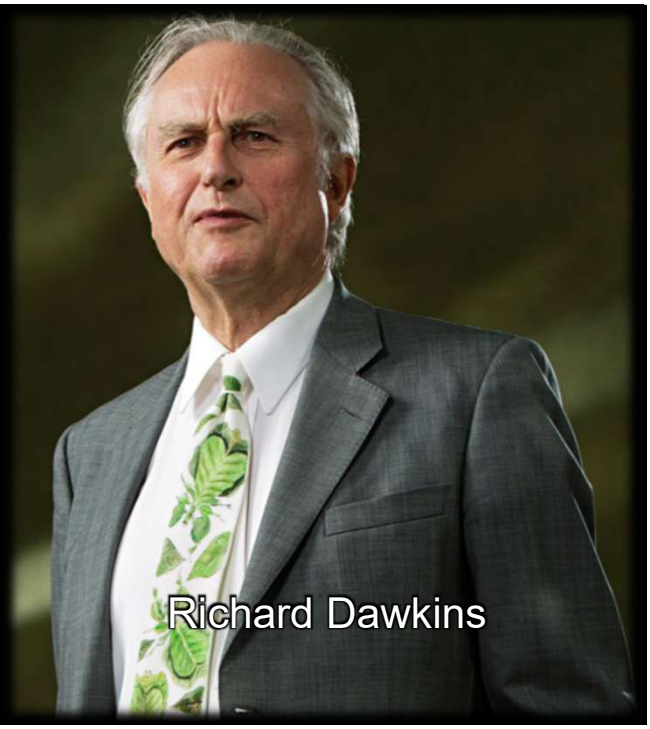

RELIGION
Together we can find the cure.
• NATIONAL BESTSELLER •
As readable and vigorous a defense of Darwinism as has been published since 1859. The Economist
RICHARD DAWKINS
The Blind Watchmaker
Why the evidence of evolution reveals a universe without design
BY THE AUTHOR OF THE SELFISH GENE


RELIGION
Together we can find the cure.
"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

"However statistically improbable the entity you seek to explain by invoking a designer, the designer himself has got to be at least as improbable."

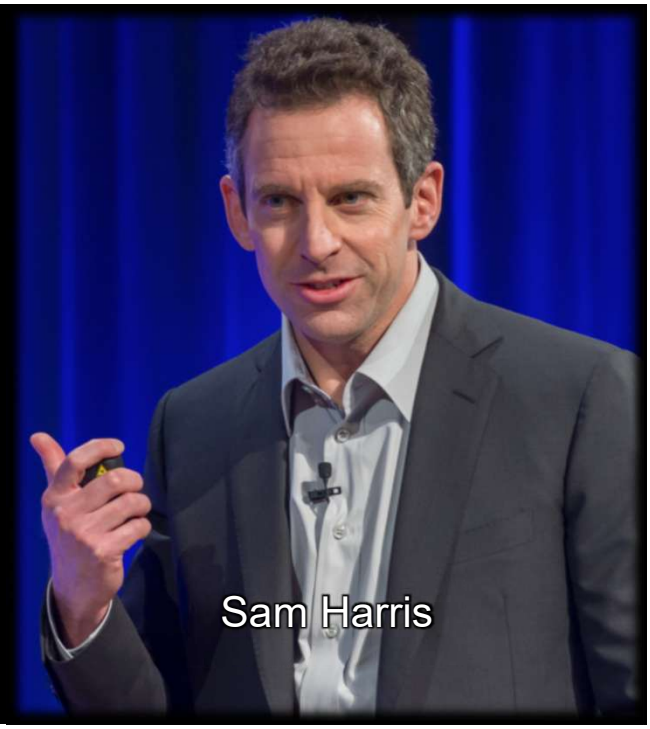
[Richard Dawkins, The God Delusion (Boston: Houghton Mifflin, 2006), 114]



Letter to a Christian Nation

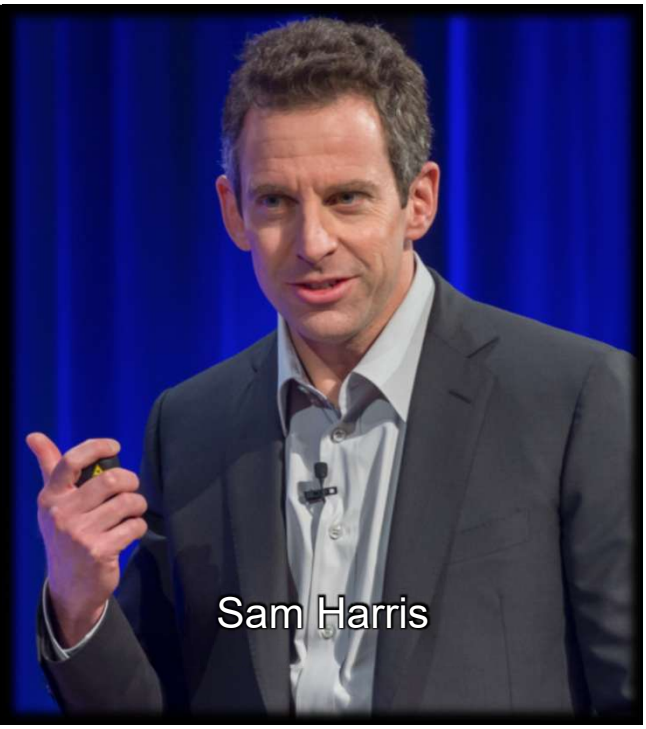
SAM HARRIS

AUTHOR OF THE NATIONAL BEST SELLER
THE END OF FAITH

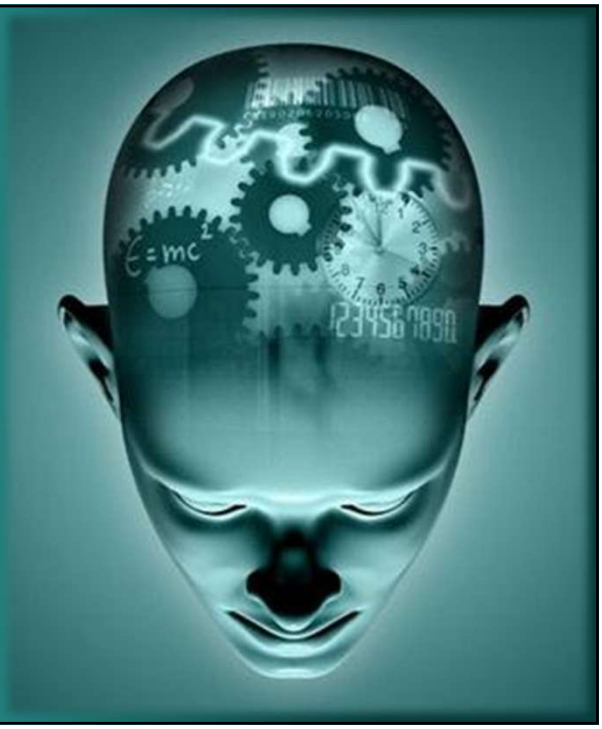


"Any being capable of creating a complex world promises to be very complex himself. As biologist Richard Dawkins has observed repeatedly, the only natural process we know of that could produce a being capable of designing things is evolution."

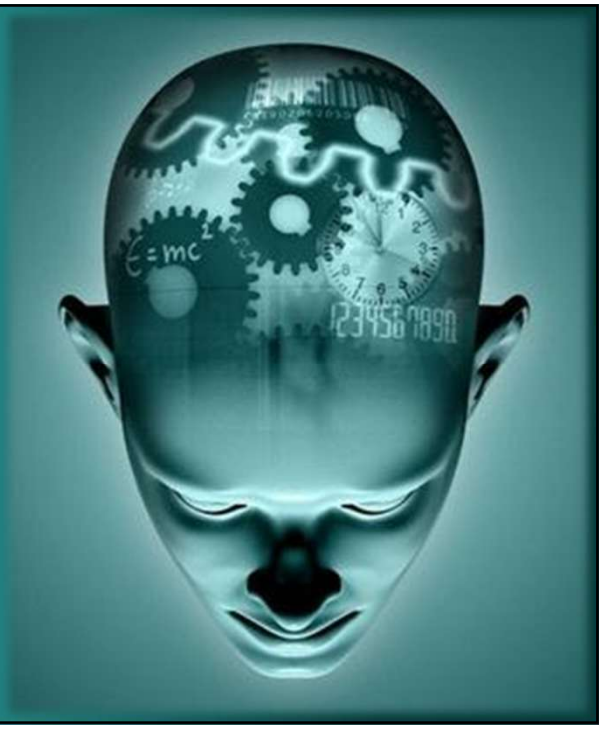
[Sam Harris, *Letter to a Christian Nation* (New York: Vintage Books, 2008), 73]

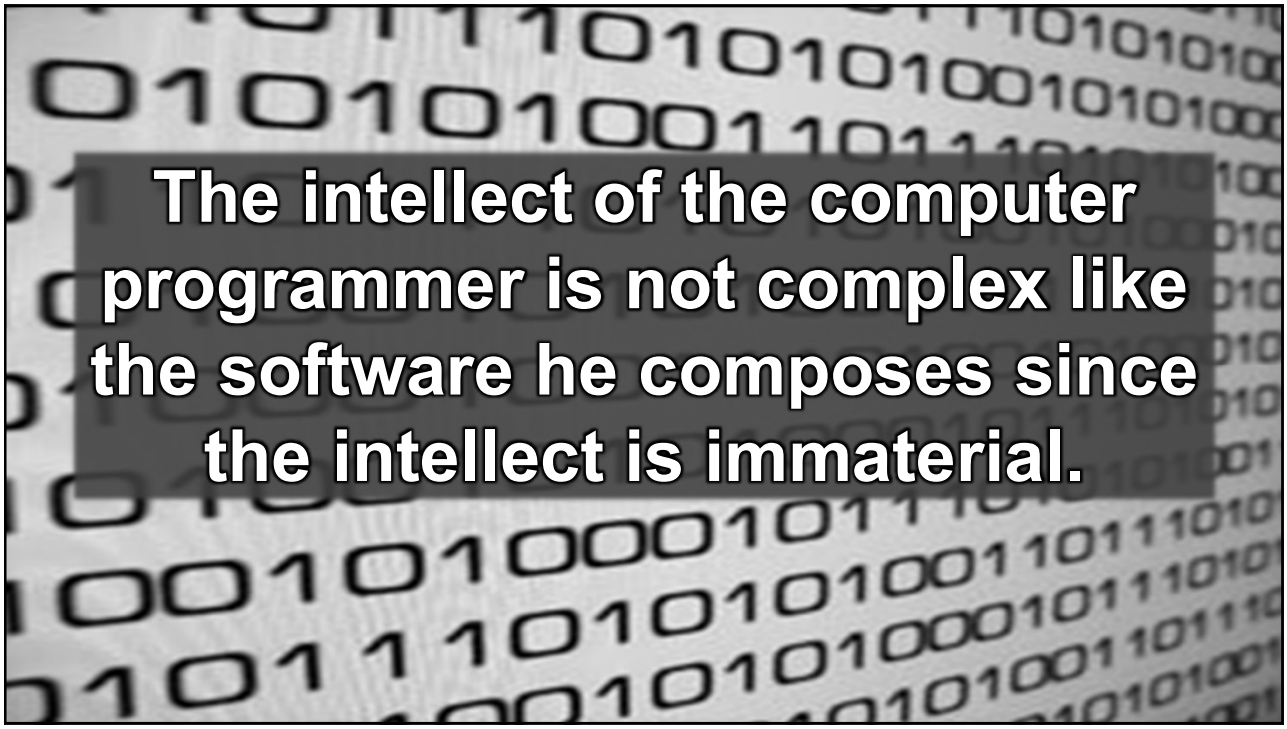


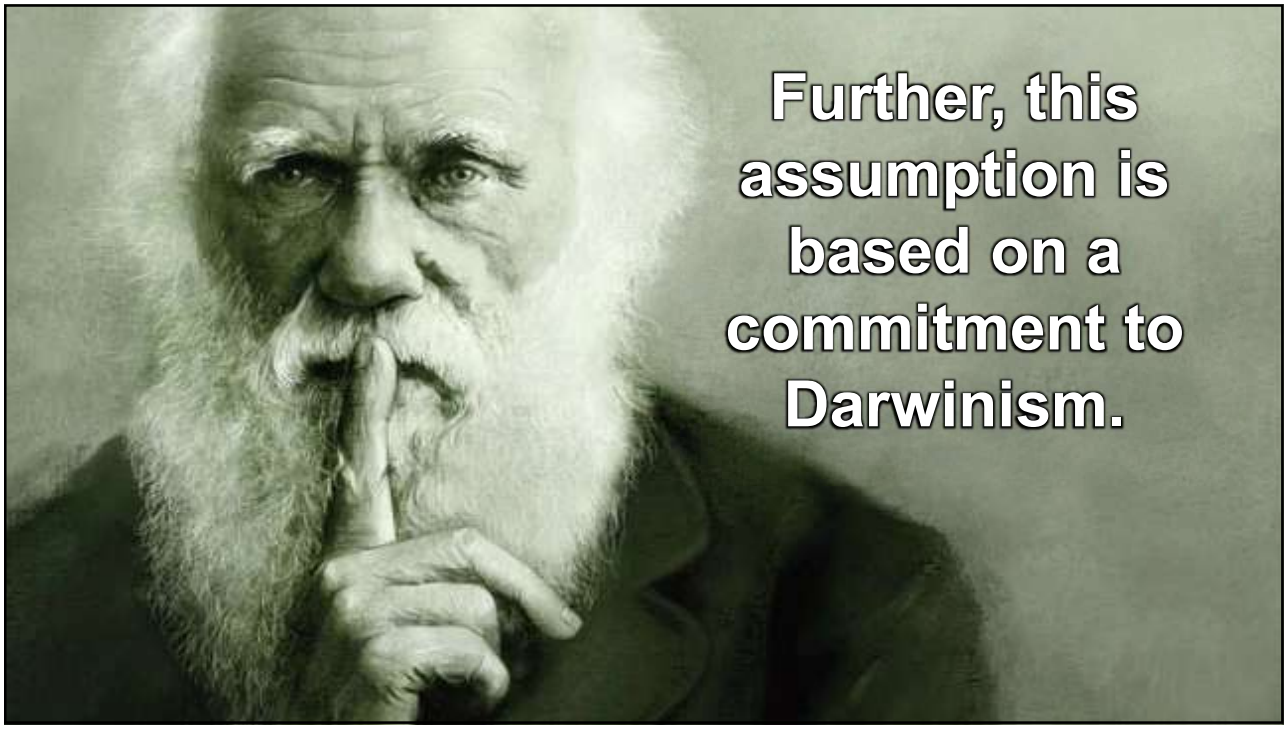
This reasoning is based an assumption of physicalism (the view that maintains that everything that is real is physical).

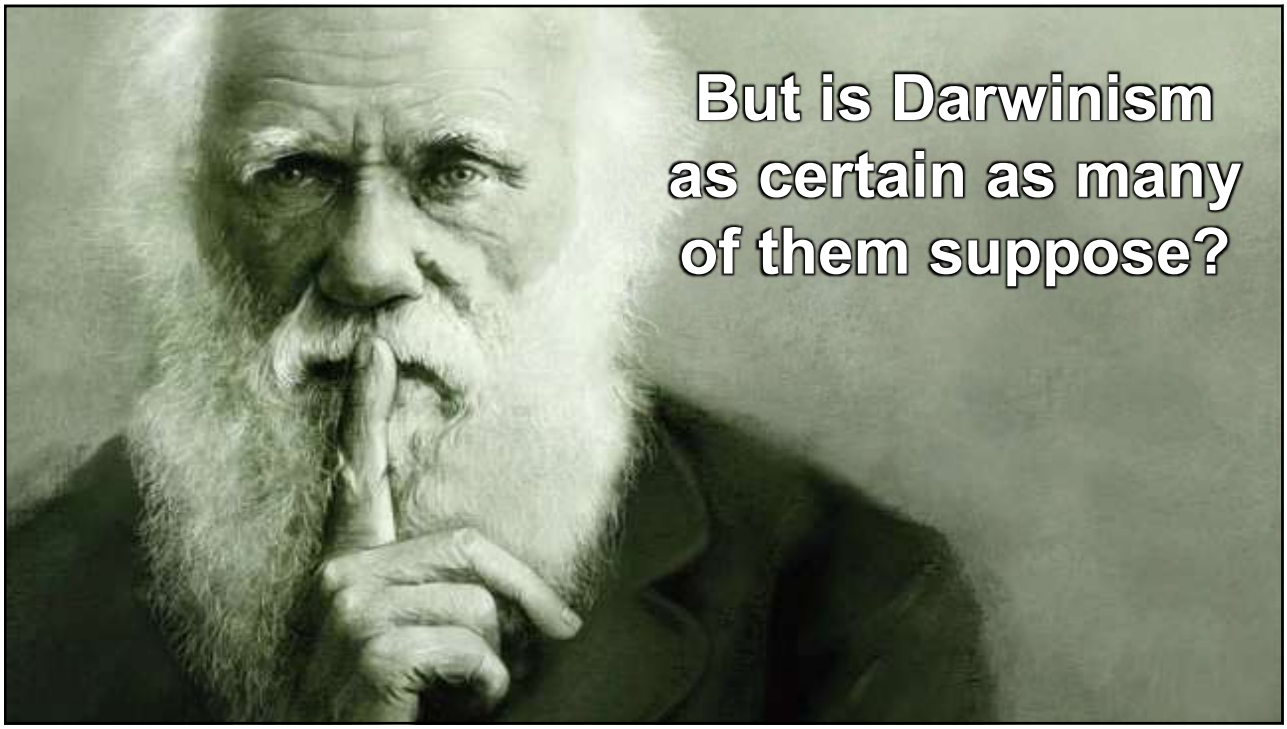


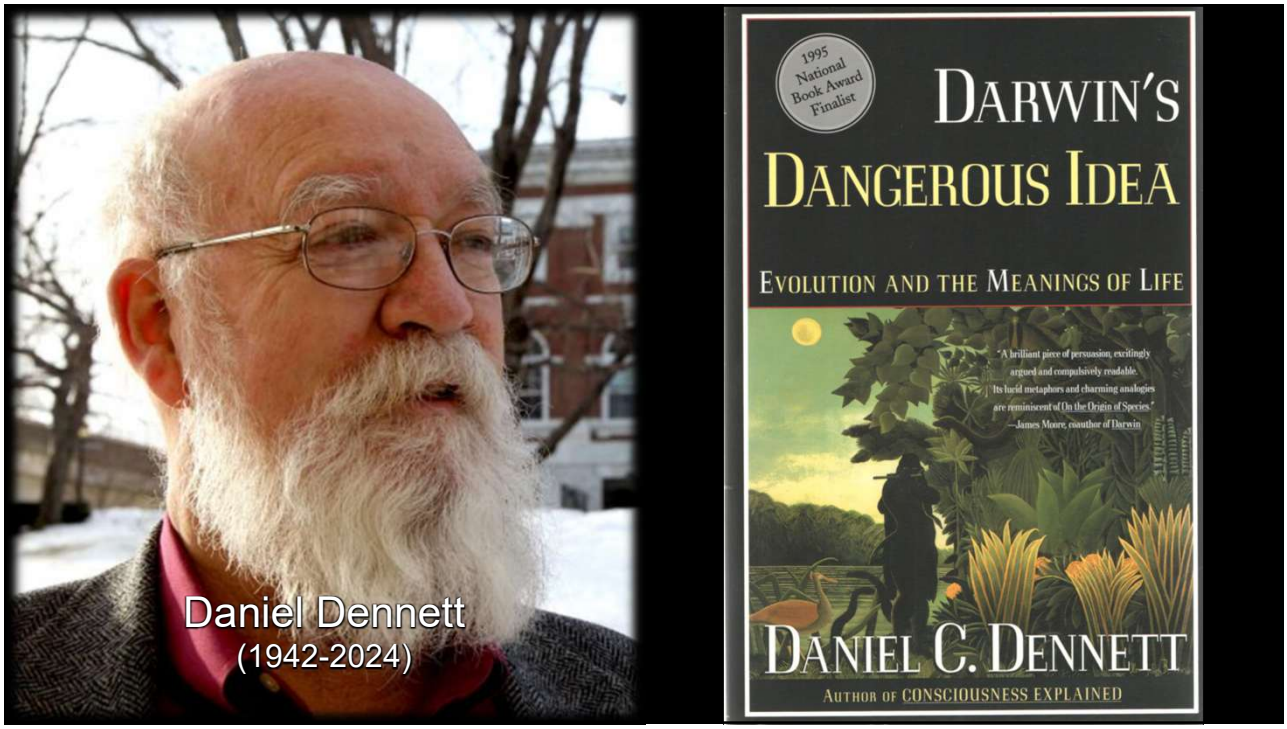
But there is no reason to think that intellects which are capable of creating complex objects and processes must themselves be complex (i.e., composed of parts).

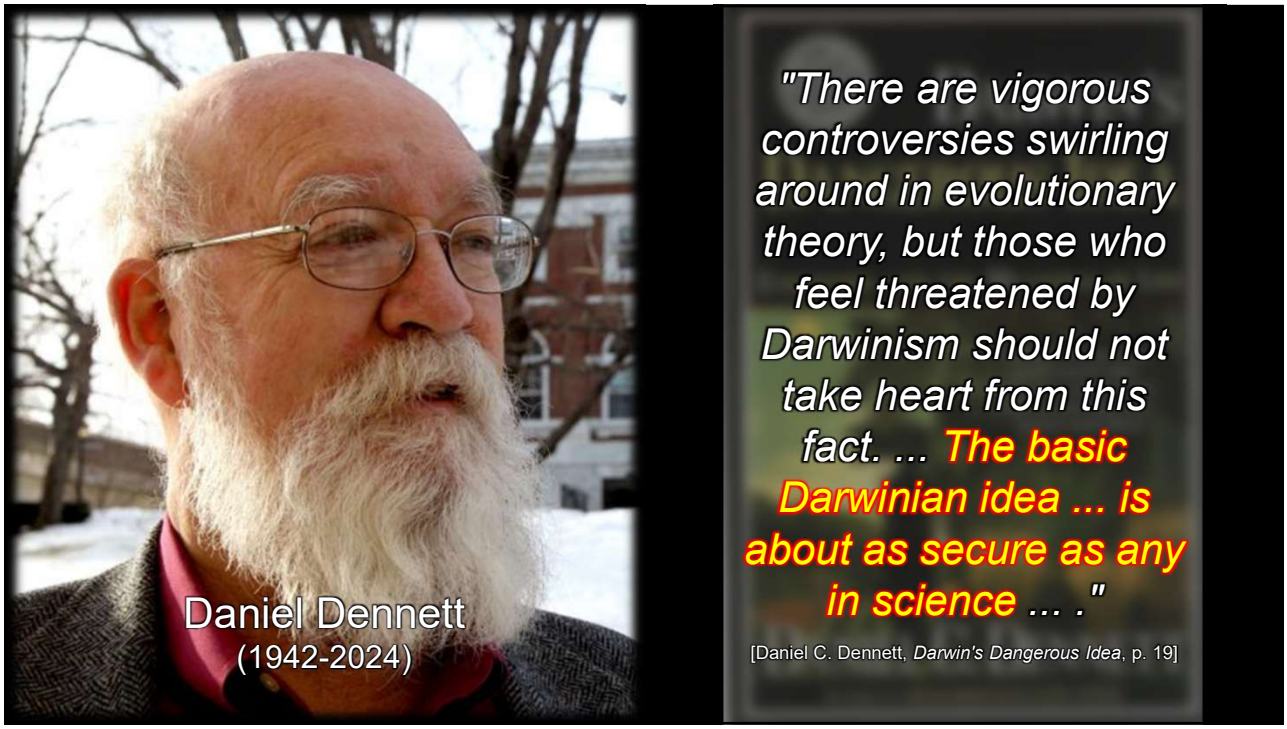


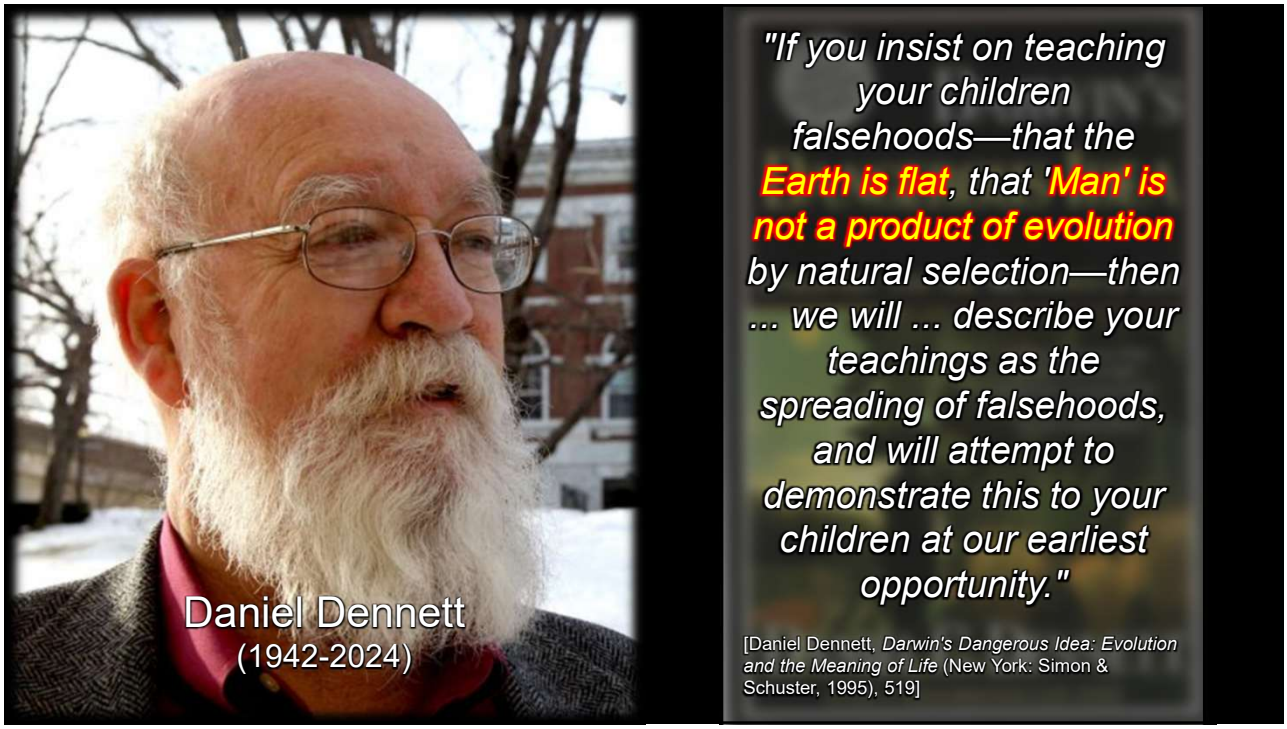

The intellect of the computer programmer is not complex like the software he composes since the intellect is immaterial.

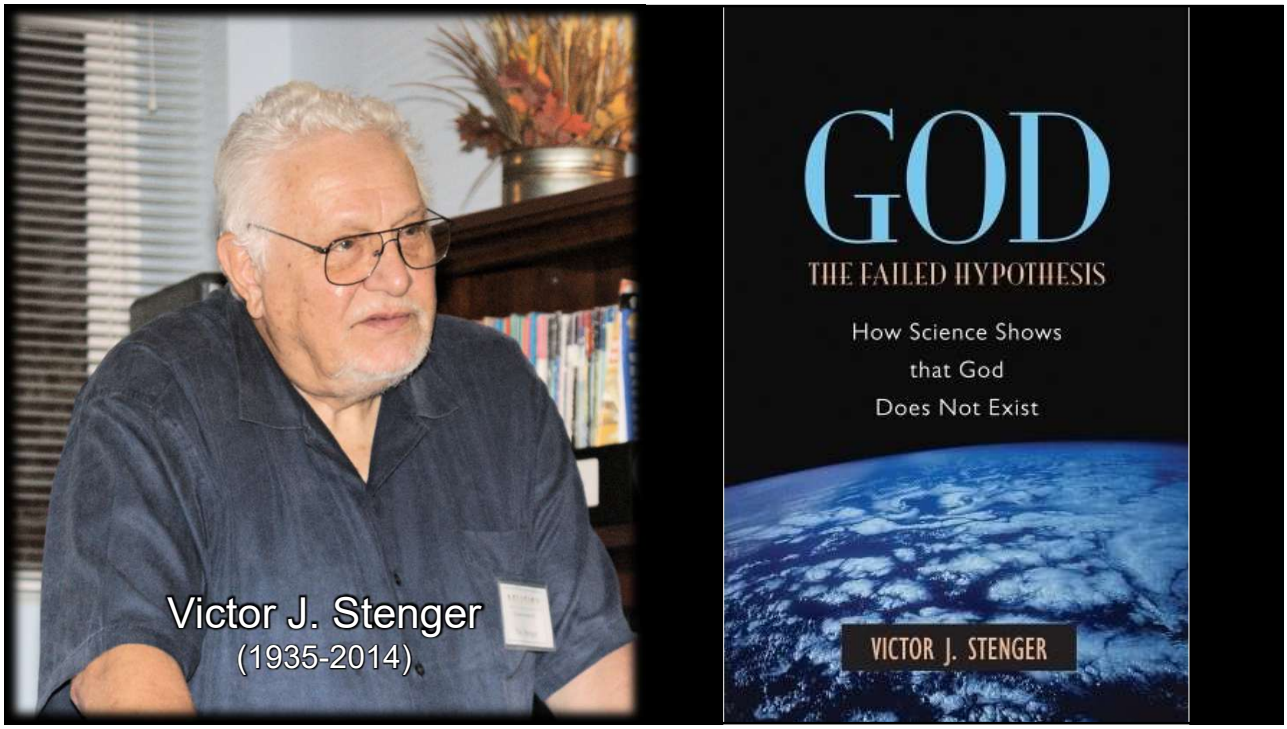

Further, this assumption is based on a commitment to Darwinism.

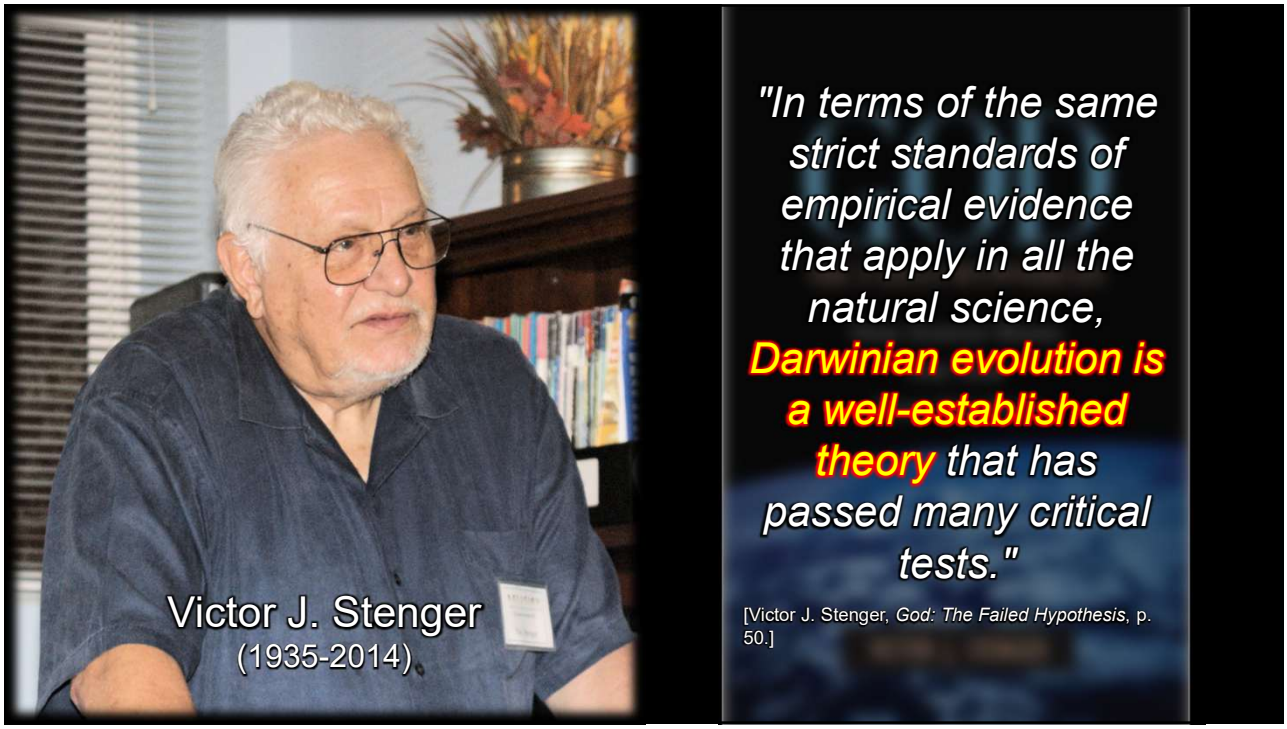

But is Darwinism
as certain as many
of them suppose?

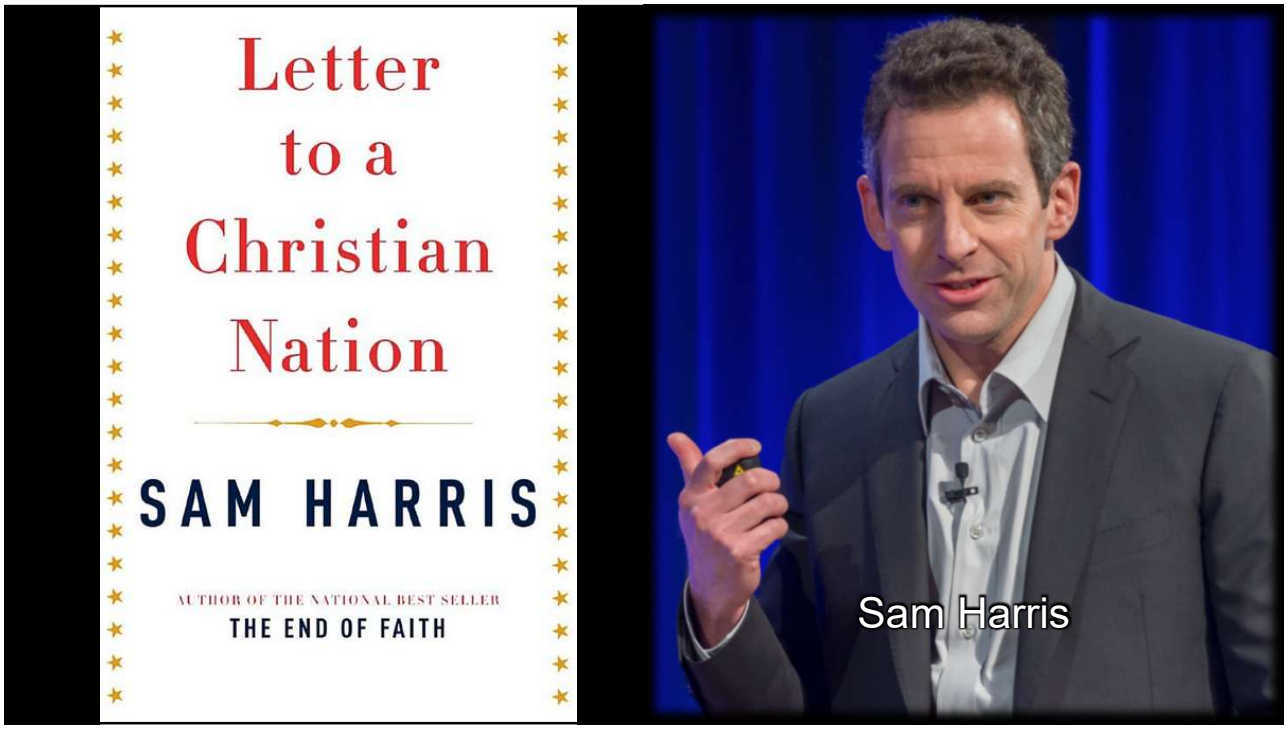

Daniel Dennett
(1942-2024)
1995
National
Book Award
Finalist
DARWIN'S
DANGEROUS IDEA
EVOLUTION AND THE MEANINGS OF LIFE
"A brilliant piece of persuasion, excitingly
argued and compulsively readable.
Its lucid metaphors and charming analogies
are reminiscent of On the Origin of Species."
—James Moore, coauthor of Darwin
DANIEL C. DENNETT
AUTHOR OF CONSCIOUSNESS EXPLAINED

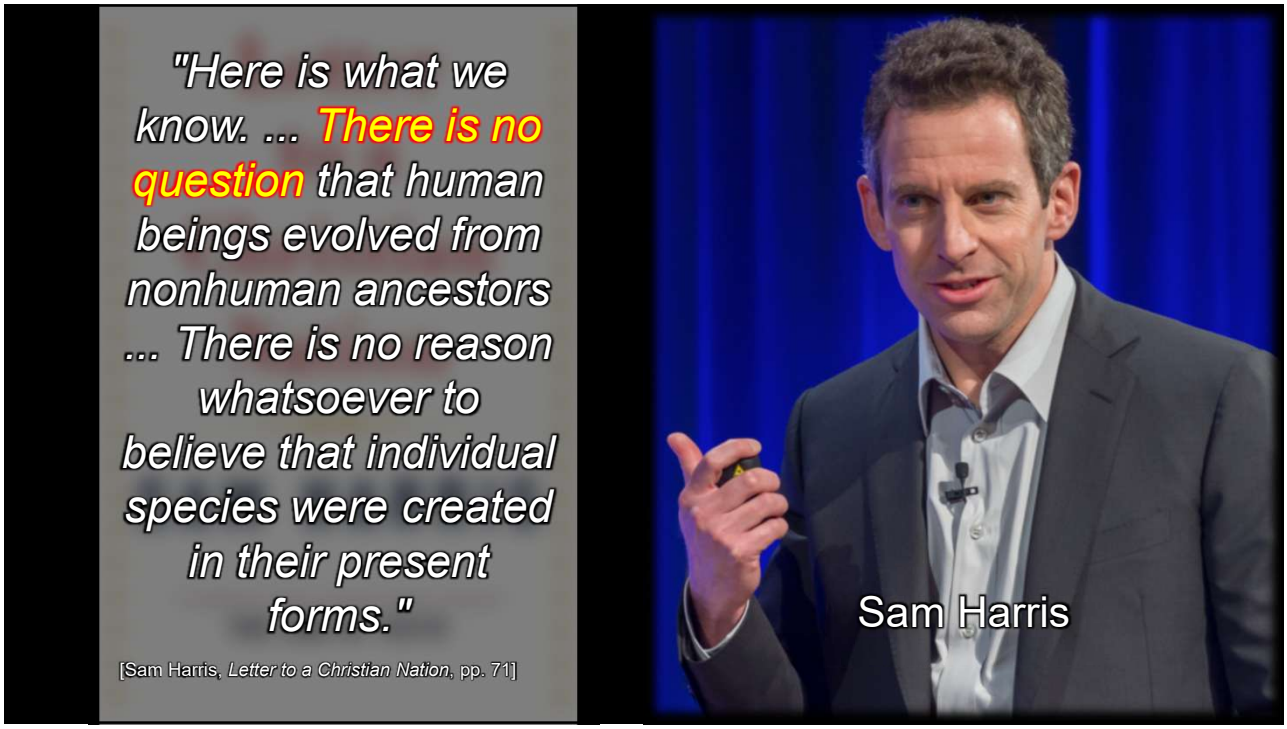

Daniel Dennett
(1942-2024)
"There are vigorous controversies swirling around in evolutionary theory, but those who feel threatened by Darwinism should not take heart from this fact. ... The basic Darwinian idea ... is about as secure as any in science ... ."
[Daniel C. Dennett, Darwin's Dangerous Idea, 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.]


Letter to a Christian Nation
SAM HARRIS
AUTHOR OF THE NATIONAL BEST SELLER
THE END OF FAITH
Sam Harris


"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]
Sam Harris

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

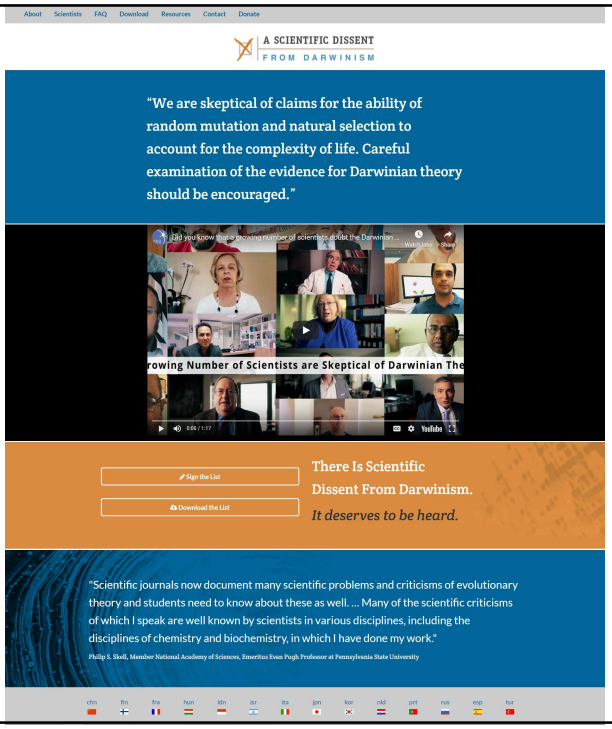
Challenging evolution is on par with believing in a flat Earth.

"Darwinian evolution is a well-established theory. "

"There is no question . . ."

Challenging evolution is on par with challenging the Moon landing.

Is this so?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"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."
rowing Number of Scientists are Skeptical of Darwinian The
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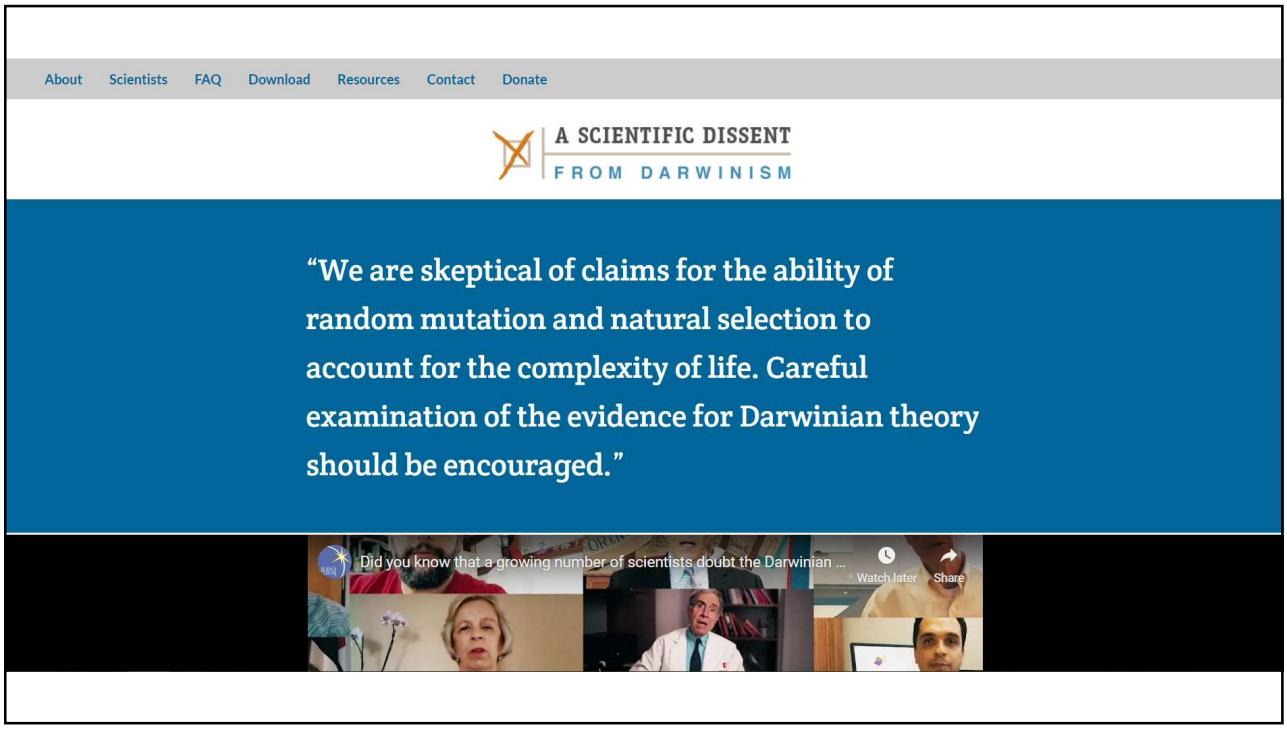
It deserves to be heard.
"Scientific journals now document many scientific problems and criticisms of evolutionary theory and students need to know about these as well. ... Many of the scientific criticisms of which I speak are well known by scientists in various disciplines, including the disciplines 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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Did you know that a growing number of scientists doubt the Darwinian ...
Watch later
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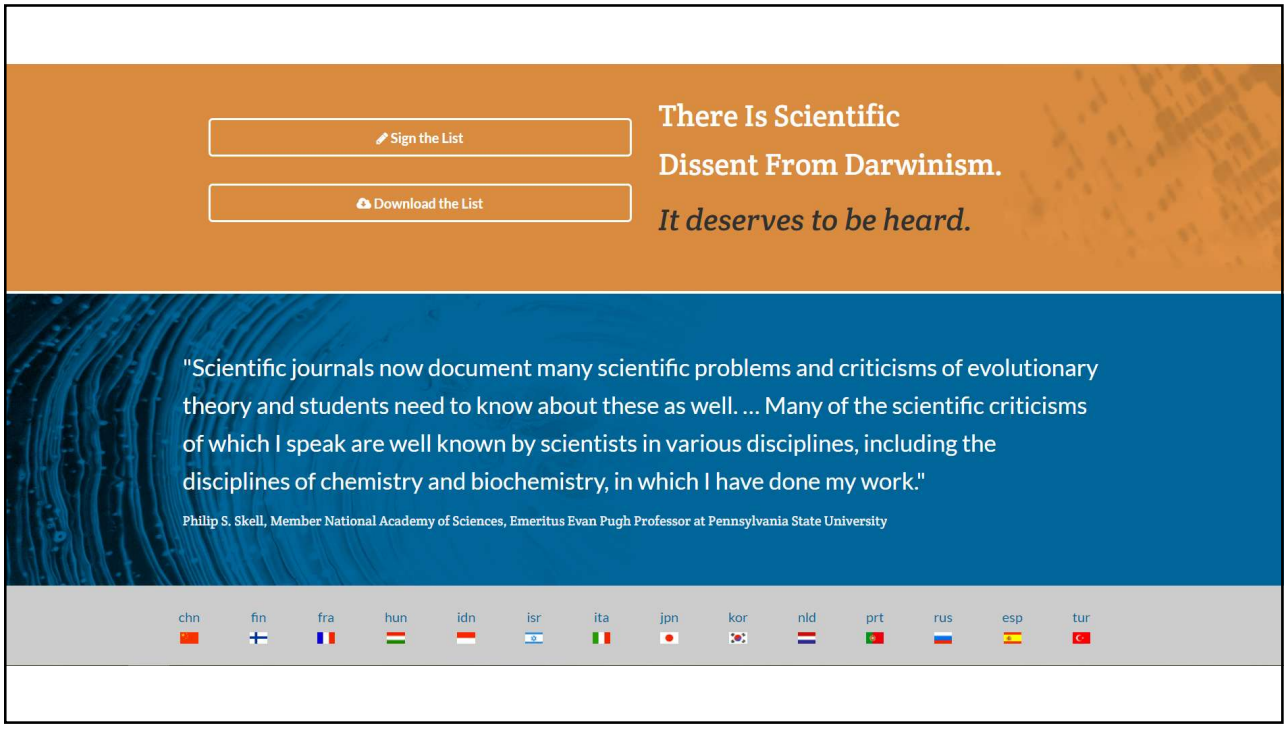
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A Scientific Dissent From Darwinism

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This was last publicly updated February 2019. Scientists listed by doctoral degree *or* current position.

Philip Skell*	Emeritus, Evan Pugh Prof. of Chemistry, Pennsylvania State University	Member of the National Academy of Sciences
Lyle H. Jensen*	Professor Emeritus, Dept. of Biological Structure & Dept. of Biochemistry	University of Washington, Fellow AAAS
Maciej Giertych	Full Professor, Institute of Dendrology	Polish Academy of Sciences
Lev Beloussov	Prof. of Embryology, Honorary Prof., Moscow State University	Member, Russian Academy of Natural Sciences
Eugene Buff	Ph.D. Genetics	Institute of Developmental Biology, Russian Academy of Sciences
Emil Palecek	Prof. of Molecular Biology, Masaryk University; Leading Scientist	Inst. of Biophysics, Academy of Sci., Czech Republic
K. Mosto Onuoha	Shell Professor of Geology & Deputy Vice-Chancellor, Univ. of Nigeria	Fellow, Nigerian Academy of Science
Ferenc Jeszenszky	Former Head of the Center of Research Groups	Hungarian Academy of Sciences
M.M. Ninan	Former President	Hindustan Academy of Science, Bangalore University (India)
Denis Fesenko	Junior Research Fellow, Engelhardt Institute of Molecular Biology	Russian Academy of Sciences (Russia)
Sergey I. Vdovenko	Senior Research Assistant, Department of Fine Organic Synthesis	Institute of Bioorganic Chemistry and Petrochemistry Ukrainian National Academy of Sciences (Ukraine)
Henry Schaefer	Director, Center for Computational Quantum Chemistry	University of Georgia
Paul Ashby	Ph.D. Chemistry	Harvard University
Israel Hanukoglu	Professor of Biochemistry and Molecular Biology Chairman	The College of Judea and Samaria (Israel)
Alan Linton	Emeritus Professor of Bacteriology	University of Bristol (UK)
Dean Kenyon	Emeritus Professor of Biology	San Francisco State University
David W. Forslund	Ph.D. Astrophysics, Princeton University	Fellow of American Physical Society
Robert W. Bass	Ph.D. Mathematics (also: Rhodes Scholar; Post-Doc at Princeton)	Johns Hopkins University
John Hey	Associate Clinical Prof. (also: Fellow, American Geriatrics Society)	Dept. of Family Medicine, Univ. of Mississippi
Daniel W. Heinze	Ph.D. Geophysics (also: Post-Doc Fellow, Carnegie Inst. of Washington)	Texas A&M University
Donald Ewert	Ph.D. Microbiology	University of Georgia
Russell Carlson	Emeritus Professor of Biochemistry & Molecular Biology	University of Georgia
David Chapman*	Senior Scientist	Woods Hole Oceanographic Institution
Giuseppe Sermonti	Professor of Genetics, Ret. (Editor, Rivista di Biologia/Biology Forum)	University of Perugia (Italy)
Stanley Salthe	Emeritus Professor Biological Sciences	Brooklyn College of the City University of New York
Marcos N. Eberlin	Professor, The State University of Campinas (Brazil)	Member, Brazilian Academy of Science

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Maciej Giertych	Full Professor, Institute of Dendrology	Polish Academy of Sciences
Lev Beloussov	Prof. of Embryology, Honorary Prof., Moscow State University	Member, Russian Academy of Natural Sciences
Eugene Buff	Ph.D. Genetics	Institute of Developmental Biology, Russian Academy of Sciences
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Ferenc Jeszenszky	Former Head of the Center of Research Groups	Hungarian Academy of Sciences
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Denis Fesenko	Junior Research Fellow, Engelhardt Institute of Molecular Biology	Russian Academy of Sciences (Russia)
Sergey I. Vdovenko	Senior Research Assistant, Department of Fine Organic Synthesis	Institute of Bioorganic Chemistry and Petrochemistry Ukrainian National Academy of Sciences (Ukraine)
Henry Schaefer	Director, Center for Computational Quantum Chemistry	University of Georgia
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	Fellow	Royal Society of Chemistry
	Fellow	Royal Society of Edinburgh
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Michael Atchison	Professor of Biochemistry	University of Pennsylvania, Vet School
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Wesley Allen	Professor of Computational Quantum Chemistry	University of Georgia
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Umberto Cerruti	Professor of Computational Algebra	University of Turin
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Donald Clark	Ph.D. Physical Biochemistry	Louisiana State University
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Todd A. Anderson	Ph.D. Computer Science	University of Kentucky
John Cimbala	Professor of Mechanical Engineering	Pennsylvania State University
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Kieran Clements	Assistant Professor, Natural Sciences	Toccoa Falls College
John K. Herdklotz	Ph.D. Physical Chemistry	Rice University
Jan Chatham	Ph.D. Neurophysiology	University of North Texas
George A. Gates	Emeritus Emeritus Professor of Otolaryngology-Head and Neck Surgery	University of Washington
John Cogdell	Professor of Electrical & Computer Engineering	University of Texas, Austin
David R. Beaucage	Ph.D. Mathematics	State University of New York at Stony Brook
Leon Combs	Professor & Chair, Chemistry & Biochemistry	Kennesaw State University
Laraba P. Kendig	Ph.D. Materials Science & Engineering	University of Michigan
Nicholas Comninellis	Associate Professor of Community and Family Medicine	University of Missouri-Kansas City
William J. Arion	Emeritus Professor of Biochemistry	Cornell University
Stephen Crouse	Professor of Kinesiology	Texas A&M University
Cham Dallas	Professor, Pharmaceutics & Biomedical Science	University of Georgia

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Robert DeHaan	Ph.D. Human Development	University of Chicago
Gage Blackstone	Doctor of Veterinary Medicine	Texas A&M University
Harold Delaney	Professor of Psychology	University of New Mexico
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Greg Tate	Ph.D. Plant Pathology	University of California, Davis
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Robert DiSilvestro	Ph.D. Biochemistry	Texas A & M University
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Jeanne Drisko	Clinical Assistant Professor of Alternative Medicine	University of Kansas, School of Medicine
Robert Eckel	Professor of Medicine, Physiology & Biophysics	University of Colorado Health Sciences Center
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Eduard F. Schmitter	Ph.D. Astronomy	University of Wisconsin
Lee Eimers	Professor of Physics & Mathematics	Cedarville University
William J. Hedden	Ph.D. Geology	Missouri University of Science & Technology
Daniel Ely	Professor, Biology	University of Akron
Pattle Pun	Professor of Biology	Wheaton College
Thomas English	Adjunct Professor of Physics & Engineering	Palomar College
Rosalind Picard	Sc.D. Electrical Engineering & Computer Science	Massachusetts Institute of Technology
Danielle Dalafave	Associate Professor of Physics	The College of New Jersey
Richard Erdlac	Ph.D. Structural Geology	University of Texas (Austin)
Michael C. Reynolds	Assistant Professor of Mechanical Engineering	University of Arkansas-Fort Smith
Bruce Evans	Ph.D. Neurobiology	Emory University
Gary Achtemeier	Ph.D. Meteorology	Florida State University
William Everson	Ph.D. Human Physiology	Penn State College of Medicine
Susan L.M. Huck	Ph.D. Geology/Geography	Clark University
James Florence	Associate Professor, Department of Public Health	East Tennessee State University
Douglas R. Buck	Ph.D. Nutrition and Food Sciences Fellow	Utah State University American College of Nutrition
Margaret Flowers	Professor of Biology	Wells College
Étienne Windisch	Ph.D. Engineering	McGill University (Canada)

Mark Foster	Ph.D. Chemical Engineering	University of Minnesota
Suzanne Sawyer Vincent	Ph.D. Physiology & Biophysics	University of Washington
Clarence Fouche	Professor of Biology	Virginia Intermont College
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
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Marvin Fritzler	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
John K. G. Kramer	Adjunct Professor, Dept. of Human Biology & Nutrition Sciences	University of Guelph (Canada)
Glen O. Brindley	Professor of Surgery, Director of Ophthalmology	Scott & White Clinic, Texas A&M University H.S.C.
Ann Gauger	Ph.D. Zoology	University of Washington
Pamela Faith Fahey	Ph.D. Physiology & Biophysics	University of Illinois
Paul Brown	Assistant Professor of Environmental Studies	Trinity Western University (Canada)
Mark Geil	Ph.D. Biomedical Engineering	Ohio State University
Ibrahim Barsoum	Ph.D. Microbiology	The George Washington University
Jim Gibson	Ph.D. Biology	Loma Linda University
John W. Balliet	Ph.D. Molecular & Cellular Biology	University of Pennsylvania,
William Gilbert	Emeritus Professor of Biology	Simpson College
Joe R. Eagleman	Professor Emeritus, Department of Physics & Astronomy	University of Kansas
Dexter F. Speck	Associate Professor of Physiology	University of Kentucky Medical Center
Warren Gilson	Associate Professor, Dairy Science	University of Georgia
Raul Leguizamon	Professor of Medicine (Pathology)	Autonomous University of Guadalajara (Mexico)
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Gene B. Chase	Professor of Mathematics and Computer Science (Ph.D. Cornell)	Messiah College
Chris Grace	Associate Professor of Psychology	Biola University
James A. Ellard, Sr.	Ph.D. Chemistry	University of Kentucky
Richard Gunasekera	Ph.D. Biochemical Genetics	Baylor University
Jennifer M. Cohen	Ph.D. Mathematical Physics	New Mexico Institute of Mining and Technology
Russel Peak	Senior Researcher, Engineering Information Systems	Georgia Institute of Technology
Graham Gutsche	Emeritus Professor of Physics	U.S. Naval Academy
Olivia A. Henderson	Ph.D. Pharmaceutics	University of Missouri, Kansas City
Dan Hale	Professor of Animal Science	Texas A&M University
Robert L. Jones	Associate Professor, Department of Ophthalmology	University of California, Irvine
James Harbrecht	Clinical Associate Professor, Division of Cardiology	University of Kansas Medical Center
George W. Benthien	Ph.D. Mathematics	Carnegie Mellon University
James Harman	Associate Chair, Dept. of Chemistry & Biochemistry	Texas Tech University
Frederick T. Zugibe	Emeritus Adjunct Associate Professor of Pathology	Columbia Univ. College of Physicians and Surgeons

William Harris	Ph.D. Nutritional Biochemistry	University of Minnesota
Thomas H. Johnson	Ph.D. Mathematics	University of Maryland
Paul Hausgen	Ph.D. Mechanical Engineering	Georgia Institute of Technology
Gregory A. Snyder	Ph.D. Geochemistry	Colorado School of Mines
Walter Hearn	Ph.D. Biochemistry	University of Illinois
Janice Arion	Ph.D. Animal Science	Cornell University
Howard Martin Whitcraft	Ph.D. Mathematics	University of St. Louis
Nolan Hertel	Professor, Nuclear & Radiological Engineering	Georgia Institute of Technology
Joseph Francis	Associate Professor of Biology	Cedarville University
Roland Hirsch	Ph.D. Analytical Chemistry	University of Michigan
Todd Peterson	Ph.D. Plant Physiology	University of Rhode Island
Charles Edward Norman	Ph.D. Electrical Engineering	Carleton University (Canada)
Dewey Hodges	Professor, Aerospace Engineering	Georgia Institute of Technology
James P. Russum	Ph.D. Chemical Engineering	Georgia Institute of Technology
Marko Horb	Ph.D. Cell & Developmental Biology	State University of New York
Joe Watkins	Military Professor, Department of Mechanical Engineering	United States Military Academy
Barton Houseman	Emeritus Professor of Chemistry	Goucher College
Mark Pritt	Ph.D. Mathematics	Yale University
Edward Peltzer	Ph.D. Oceanography	University of California, San Diego (Scripps Institute)
Cornelius Hunter	Ph.D. Biophysics	University of Illinois
Rodney Ice	Principle Research Scientist, Nuclear & Radiological Engineering	Georgia Institute of Technology
Malcolm W. MacArthur	Ph.D. Molecular Biophysics	University of London (UK)
Rafe Payne	Ph.D. Biology	University of Nebraska
Muzaffar Iqbal	Ph.D. Chemistry	University of Saskatchewan (Canada)
Mark P. Bowman	Ph.D. Organic Chemistry	Pennsylvania State University
David L. Elliott	Chair, Division of Natural Sciences/Mathematics	Louisiana College
David Ives	Emeritus Professor of Biochemistry	Ohio State University
Stephan J. G. Gift	Professor of Electrical Engineering	The University of the West Indies
Tony Jelsma	Ph.D. Biochemistry	McMaster University (Canada)
George C. Wells	Professor of Computer Science	Rhodes University (South Africa)
Fred Johnson	Ph.D. Pathology	Vanderbilt University
Raleigh R. White, IV	Professor of Surgery	Texas A&M University, College of Medicine
Jerry Johnson	Ph.D. Pharmacology & Toxicology	Purdue University
Harold D. Cole	Professor of Physiology	Southwestern Oklahoma State University
Yongsoon Park	Ph.D. Nutritional Biochemistry	Washington State University
Richard Johnson	Professor of Chemistry	LeTourneau University
David Hagen	Ph.D. Mechanical Engineering	University of Minnesota
David Johnson	Associate Professor of Pharmacology & Toxicology	Duquesne University
Jay Hollman	Assistant Clinical Professor of Cardiology	Louisiana State University Health Science Center
Lawrence Johnston	Emeritus Professor of Physics	University of Idaho
Albert J. Starshak	Ph.D. Physical Chemistry	Illinois Institute of Technology
Robert Jones	Associate Professor of Mechanical Engineering	University of Texas-Pan America
Scott T. Dreher	Ph.D. Geology (Royal Society USA Research Fellow)	University of Alaska, Fairbanks
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George Lebo	Associate Professor of Astronomy	University of Florida
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James O. Dritt	Ph.D. Civil Engineering & Environmental Science	University of Oklahoma
Matti Leisola	Professor, Laboratory of Bioprocess Engineering	Helsinki University of Technology
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Glen E. Deal	Ph.D. Electrical Engineering	Florida Institute of Technology
Lane Lester	Ph.D. Genetics	Purdue University
Paul Whitehead	Ph.D. Chemical Thermodynamics	University of Natal (South Africa)
Catherine Lewis	Ph.D. Geophysics	Colorado School of Mines
John R. Goltz	Ph.D. Electrical Engineering	University of Arizona
Peter Line	Ph.D. Neuroscience	Swinburne University of Technology (Australia)
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John Nichols	Ph.D. Mathematics	University of Tennessee
Mark Bearden	Ph.D. Electrical & Computer Engineering	Carnegie Mellon University
Harry Lubansky	Ph.D. Biological Chemistry	University of Illinois, Chicago
Daniel L. Moran	Ph.D. Molecular & Cellular Biology	Ohio University Fulbright Scholar
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Jed Macosko	Ph.D. Chemistry	University of California, Berkeley
Nigel Surridge	Ph.D. Electrochemistry & Photochemistry	University of North Carolina, Chapel Hill
Christopher Macosko	Ph.D. Chemical Engineering	Princeton University
David Keller	Associate Professor of Chemistry	University of New Mexico
Allen Magnuson	Ph. D. Theoretical & Applied Mechanics	University of New Hampshire
Amy Ward	Ph.D. Mathematics	Clemson University
Donald Mahan	Professor of Animal Nutrition	Ohio State University
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Robert Marks	Distinguished Professor, Electrical & Computer Engineering	Baylor University
Chi-Deu Chang	Ph.D. Medicinal Chemistry	State University of New York, Buffalo
Jesus Ambriz	Professor of Medicine	Autonomous University of Guadalajara (Mexico)
Julie Marshall	Ph.D. Chemistry	Texas Tech University
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Mark A. Robinson	Ph.D. Environmental Science	Lacrosse University
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Edwin Karlow	Chair, Department of Physics	LaSierra University
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Charles Koons	Ph.D. Organic Chemistry	University of Minnesota
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Theodor Liss	Ph.D. Chemistry	Massachusetts Institute of Technology
James Keesling	Professor of Mathematics	University of Florida
Brian Miller	Ph.D. Physics	Duke University
Christopher D. Beling	Associate Professor of Physics	The University of Hong Kong (China)
Art Nitz	Ph.D. Anatomy & Neurobiology	University of Kentucky
Thomas Milner	Associate Professor of Biomedical Engineering	University of Texas, Austin
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Christian W. Puritz	Ph.D. Mathematics	University of Glasgow (UK)
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Paul Missel	Ph.D. Physics	Massachusetts Institute of Technology
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Dónal O'Mathúna	Ph.D. Pharmacognosy	Ohio State University
Steve D. Figard	Ph.D. Biochemistry	Florida State University
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Terry Morrison	Ph.D. Chemistry	Syracuse University
Bijan Nemati	Ph.D. High Energy Physics	University of Washington
William Russell Belding	Ph.D. Mathematics	University of Notre Dame
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Angus Menuge	Ph.D. Philosophy of Psychology	University of Wisconsin-Madison
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Gordon Mills	Emeritus Professor of Biochemistry	University of Texas, Medical Branch
A. Clyde Hill	Ph.D. Soil Chemistry	Rutgers University
Aric D. Blumer	Ph.D. Computer Engineering	Virginia Tech
Stephen C. Meyer	Ph.D. Philosophy of Science	Cambridge University (UK)
William Purcell	Ph.D. Physical Chemistry	Princeton University
Paul Randolph	Ph.D. Mathematical Statistics	University of Minnesota
Christopher Morbey	Astronomer (Ret.)	Herzberg Institute of Astrophysics, National Research Council of Canada
Stephen C. Tentarelli	Ph.D. Mechanical Engineering	Lehigh University
David Reed	Ph.D Entomology	University of California, Riverside
Charles D. Johnson	Ph.D. Chemistry	University of Minnesota
J. Ishizaki	Associate Professor of Neuropsychology (M.D., Ph.D. Medicine)	Kobe Gakuin University (Japan)
David Rogstad	Ph.D. Physics	California Institute of Technology
Mark Shlapobersky	Ph.D. Virology	Bar-Ilan University (Israel)
Arthur John Jones	Ph.D. Zoology & Comparative Physiology	Birmingham University (UK)
Patricia Reiff	Director, Rice Space Institute	Rice University
Oleh Havrysh	Senior Research Assistant, Protein & Peptide Structure & Function Dept.	Institute of Bioorganic Chemistry & Petrochemistry Ukrainian National Academy of Sciences (Ukraine)
W. Christopher Schroeder	Associate Professor of Mathematics	Morehead State University
Gail H. Allwine	Professor of Electrical Engineering (retired)	Gonzaga University
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Gildo Magalhães	Professor of the History of Science & Technology	University of São Paulo (Brazil)
Andrew Steckley	Ph.D. Civil Engineering	University of Western Ontario (Canada)
Terry Rickard	Ph.D. Engineering Physics	University of California, San Diego
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Mubashir Hanif	Ph.D. Plant Biology	University of Helsinki (Finland)
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Mehmet Pakdemirli	Professor of Mechanical Engineering	Celal Bayar University (Turkey)
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Daniel Romo	Professor of Chemistry	Texas A&M University
David Sabatini	Professor Civil Engineering & Environmental Science	University of Oklahoma
Richard Buggs	DPhil Plant Ecology & Evolution	Oxford University (UK)
Etienne Y. Vernaz	Professor & Director of Research Director	CEA (French Atomic Energy Agency) (France)
Theodore Saito	Ph.D. Physics	Pennsylvania State University
Jussi Meriluoto	Professor, Department of Biochemistry & Pharmacy	Abo Akademi University (Finland)
Kay Roscoe	Ph.D. High Energy Particle Physics	University of Manchester (UK)
Thomas Saleska	Professor of Biology	Concordia University
James F. Drake	Ph.D. Atmospheric Science	University of California, Los Angeles
Daniel M. Brown	Ph.D. Physics	Catholic University of America
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Beverly W. Miller	Ph.D. Biology	Carnegie Mellon University
Seyyed Imran Husnain	Ph.D. Bacterial Genetics	University of Sheffield (UK)
Gayle Livingston Birchfield	Ph.D. Biology	University of Missouri, Columbia
Dale Schaefer	Professor, Materials Science & Engineering	University of Cincinnati
Russell C. Healey	Ph.D. Electrical Engineering	University of Cambridge (UK)
James Gilchrist	Ph.D. Physics	University of Texas, Austin
Stuart C. Burgess	Professor of Design & Nature, Dept. of Mechanical Engineering	Bristol University (UK)
Charles W. Bell	Professor Emeritus of Biological Sciences	San Jose State University
Norman Schmidt	Professor of Chemistry	Georgia Southern University
Flemming Nyboe	Ph.D. Electrical Engineering	Technical University of Denmark (Denmark)
Steve Maxwell	Associate Professor of Molecular and Cellular Medicine	Texas A&M University, H.S.C.
Rowan Seymour	Ph.D. Computer Science	Queen's University, Belfast (Northern Ireland)
Leslie J. Wiemerslage	Emeritus Professor (Ph.D. Cell Biology, Univ. of Pennsylvania)	Southwestern Illinois College
Andrew Schmitz	Ph.D. Inorganic Chemistry	University of Iowa
Anne E. Vravick	Ph.D. Environmental Toxicology	University of Wisconsin, Madison
Granville Sewell	Professor of Mathematics	University of Texas, El Paso
Richard A. Strong	Ph.D. Chemistry	Northeastern University
Marshall Adams	Ph.D. Marine Sciences	University of North Carolina, Chapel Hill
Stephen Sewell	Assistant Professor of Family Medicine	Texas A&M University
Mark C. Biedebach	Professor Emeritus of Physiology	California State University, Long Beach
Gregory Shearer	Ph.D. Physiology	University of California, Davis
Douglas Nelson Rose	Research Physicist	United States Army
David Shormann	Ph.D. Limnology	Texas A&M University
Paul Lorenzini	Ph.D. Nuclear Engineering	Oregon State University
Mark Apkarian	Ph.D. Exercise Physiology	University of New Mexico
Dale Spence	Emeritus Professor of Kinesiology	Rice University
Edson R. Rocha	Research Assistant Professor, Microbiology	East Carolina University
David W. Dykstra	Ph.D. Computer Science	University of Illinois, Urbana-Champaign
Arnold Sikkema	Associate Professor of Physics	Dordt College
Larry S. Helmick	Senior Professor of Chemistry	Cedarville University
Georgia Purdom	Ph.D. Molecular Genetics	Ohio State University
John Silvius	Ph.D. Plant Physiology	West Virginia University
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Fred Skiff	Professor of Physics	University of Iowa
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Ken Smith	Professor of Mathematics	Central Michigan University
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Jeff Tomkins	Ph.D. Genetics	Clemson University
Lakhi Goenka	Ph.D. Fluid Dynamics	University of Texas at Austin
Stephen A. Batzer	Ph.D. Mechanical Engineering	Michigan Technological University
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Wolfgang Smith	Emeritus Professor of Mathematics	Oregon State University
Jorge Pimentel Cintra	University Professor, Earth Sciences	University of São Paulo (Brazil)
Wayne L. Cook	Ph.D. Inorganic Chemistry	University of Kentucky
John Stamper	Research Physicist	Naval Research Laboratory
Alfred Tang	Visiting Scholar (Ph.D. Physics, University of Wisconsin, Madison)	The Chinese University of Hong Kong (China)
Jeffrey L. Vaughn	Ph.D. Engineering	University of California, Irvine
Timothy Standish	Ph.D. Environmental Biology	George Mason University
Robert W. Koplitzke	Professor of Chemistry	Winona State University
William Hankley	Professor of Computer Science	Kansas State University
Walt Stangl	Associate Professor of Mathematics	Biola University
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Michael Strauss	Associate Professor of Physics	University of Oklahoma
Jason David Ward	Ph.D. Molecular Biology and Biochemistry	Glasgow University (UK)
Scott A. Renner	Ph.D. Computer Science	University of Illinois at Urbana-Champaign
John Studenroth	Ph.D. Plant Pathology	Cornell University
Peter M. Rowell	D.Phil. Physics	University of Oxford (UK)
Mark Swanson	Ph.D. Biochemistry	University of Illinois
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João Jorge Ribeiro Soares	Gonçalves de Araújo, Assistant Professor, Department of Mathematics	Open University (Portugal)
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András Vukics	Ph.D. in Physics	University of Szeged, Hungary
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Richard Mann	Ph.D. Physical Chemistry	Princeton University
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Charles Thaxton	Ph.D. Physical Chemistry	Iowa State University
Lee M. Spetner	Ph.D. Physics	Massachusetts Institute of Technology
Christopher L. Thomas	Ph.D. Analytical Chemistry	University of South Carolina
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Douglas C. Youvan	Former Associate Professor of Chemistry (Ph.D., U.C., Berkeley)	Massachusetts Institute of Technology
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Pavithran Thomas	Ph.D. Mechanical Engineering	Ohio State University
Leonard Loose	Ph.D. Botany	University of Leeds (UK)
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Antonio Cruz Suárez	Ph.D Biology	University of Barcelona
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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 Tabladillo	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
Ernst Lutz	Ph.D. in Agricultural and Resource Economics	University of California, Berkley
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
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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

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. "

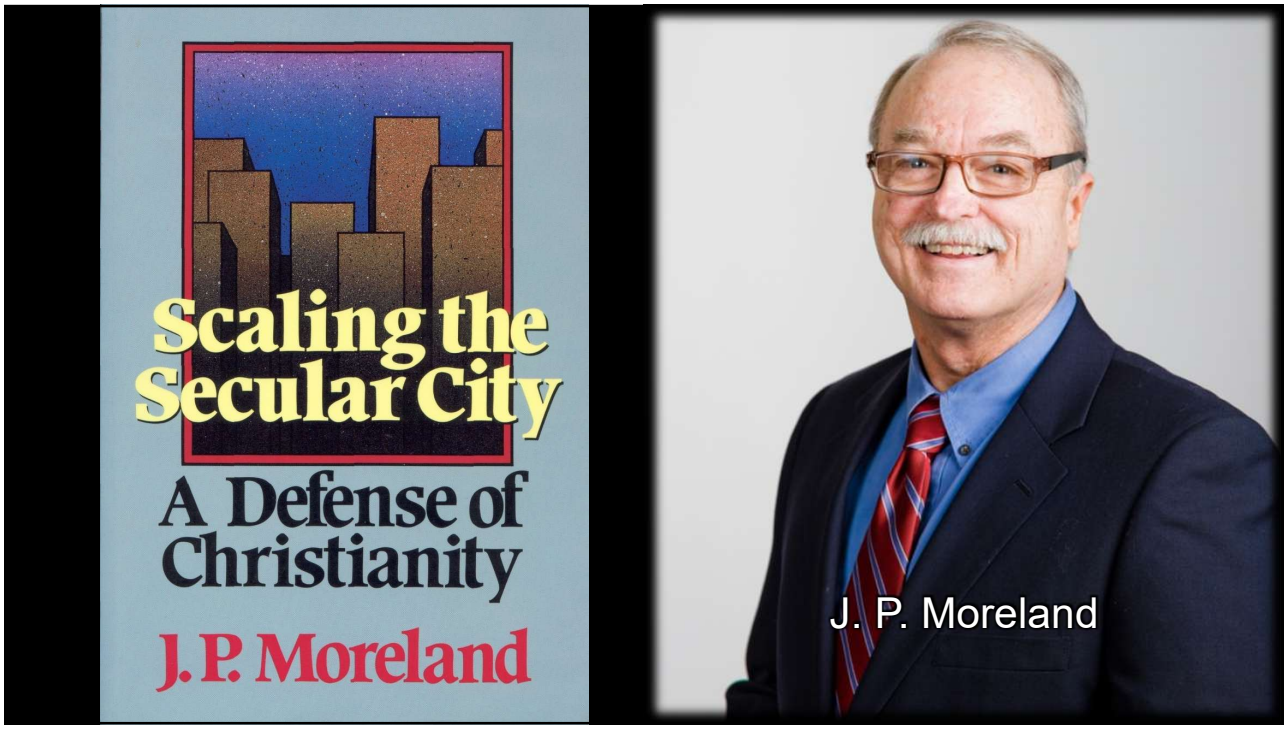
Challenging evolution is on par with challenging the Moon landing.

"There is no question . . ."

are unwarranted.


Resources


Intermediate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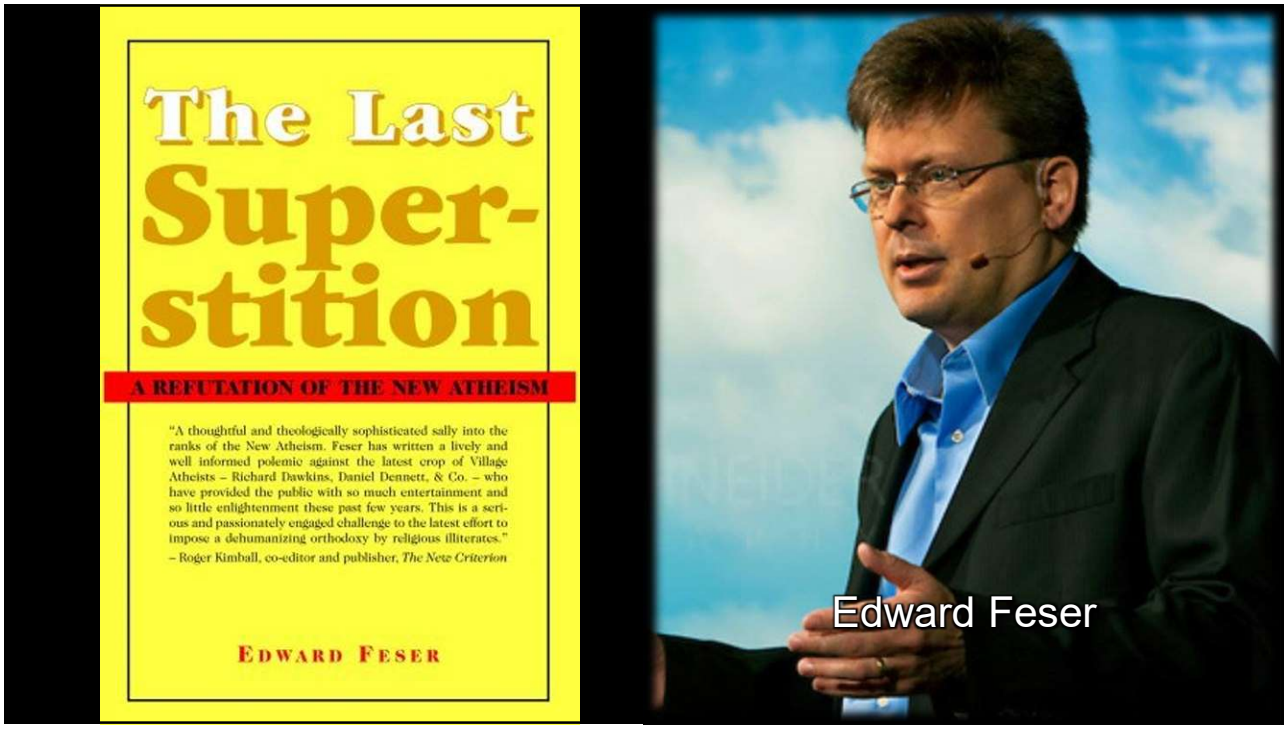
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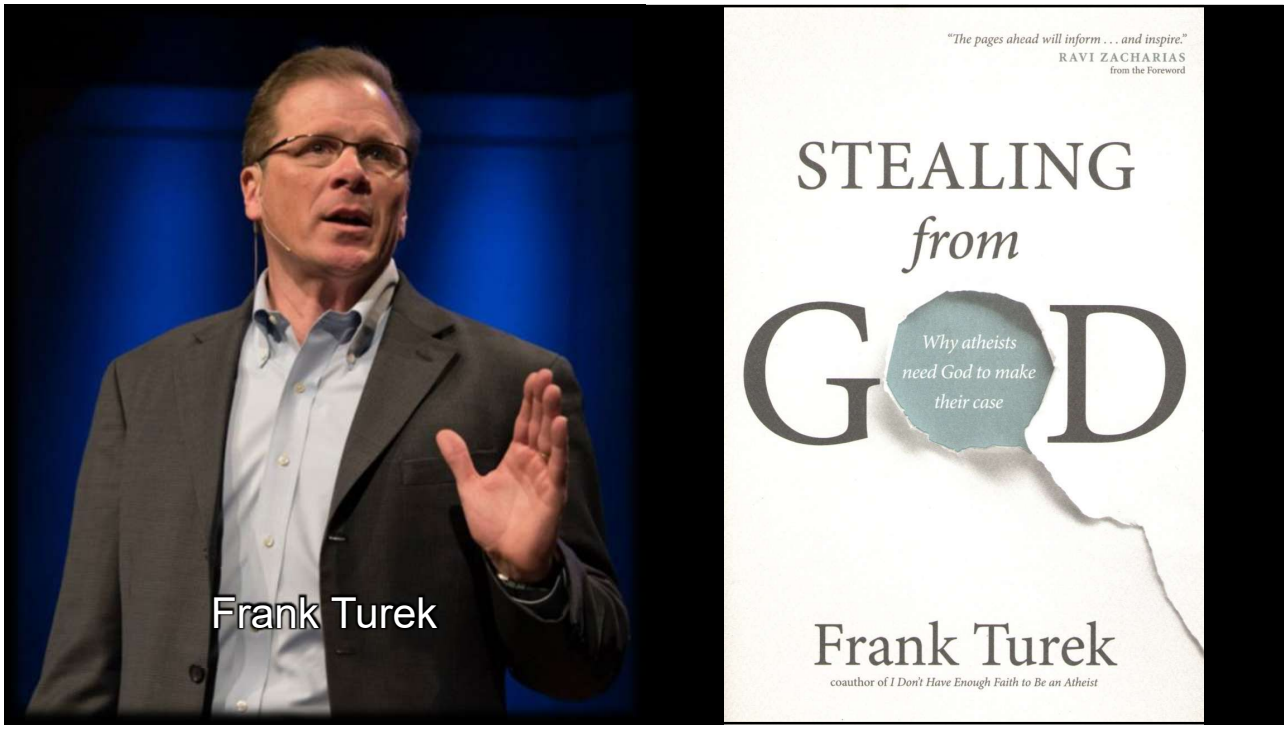
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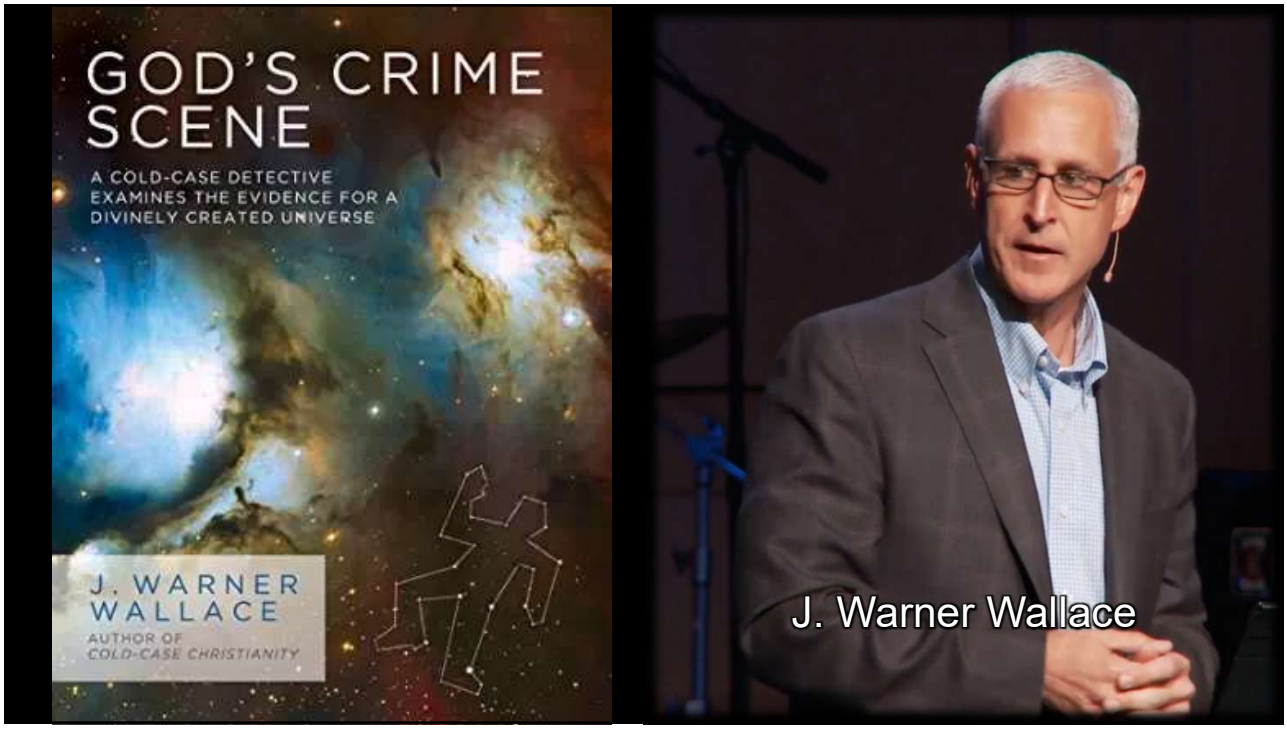
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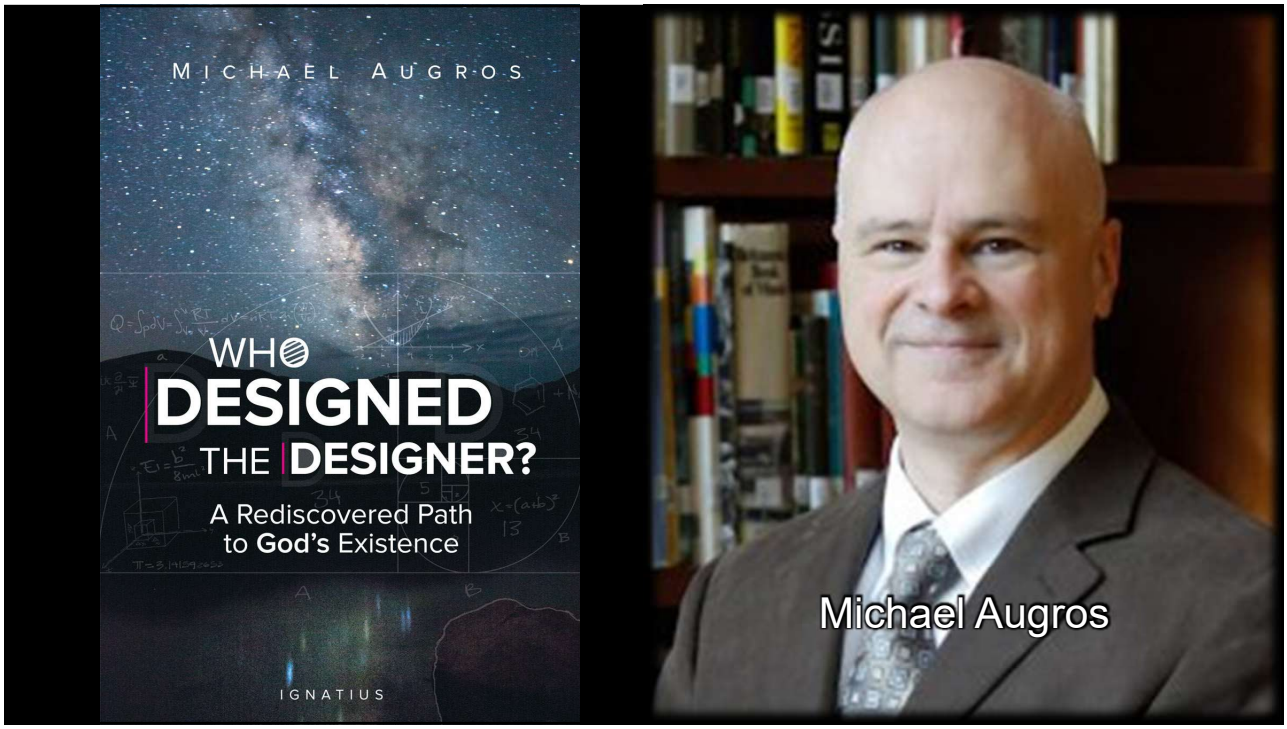
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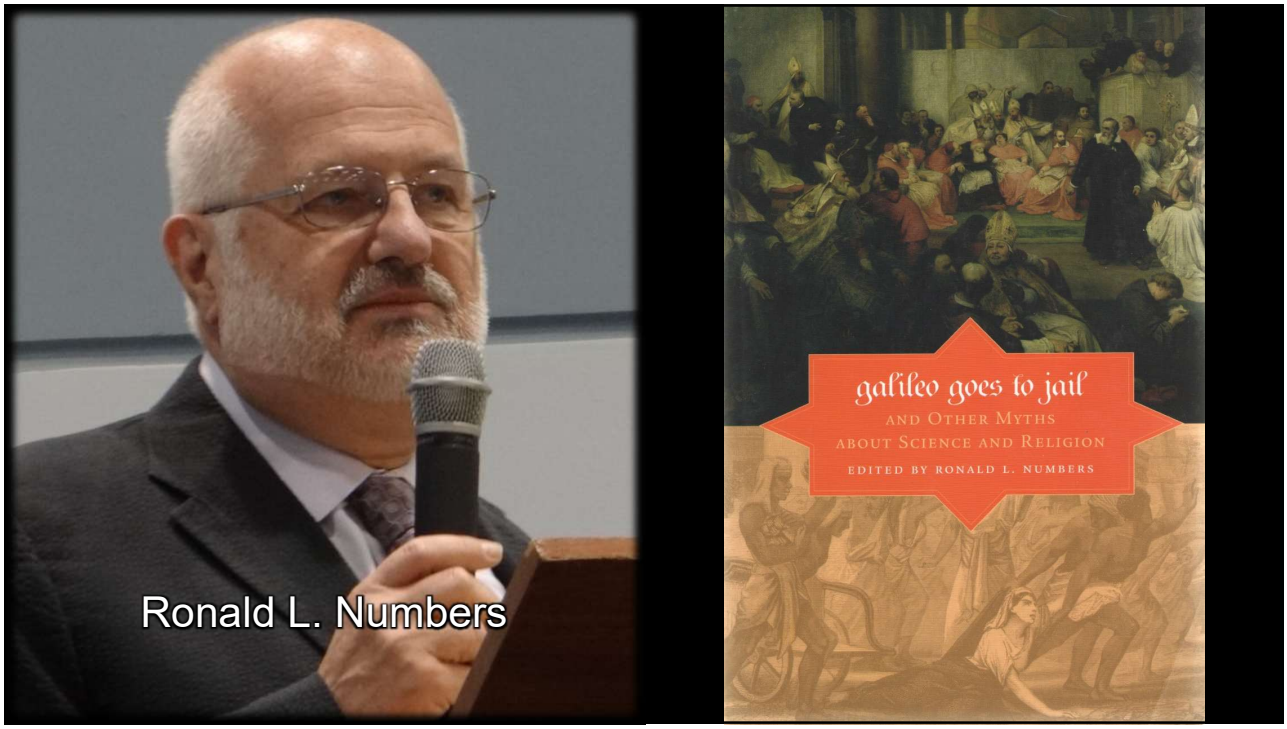
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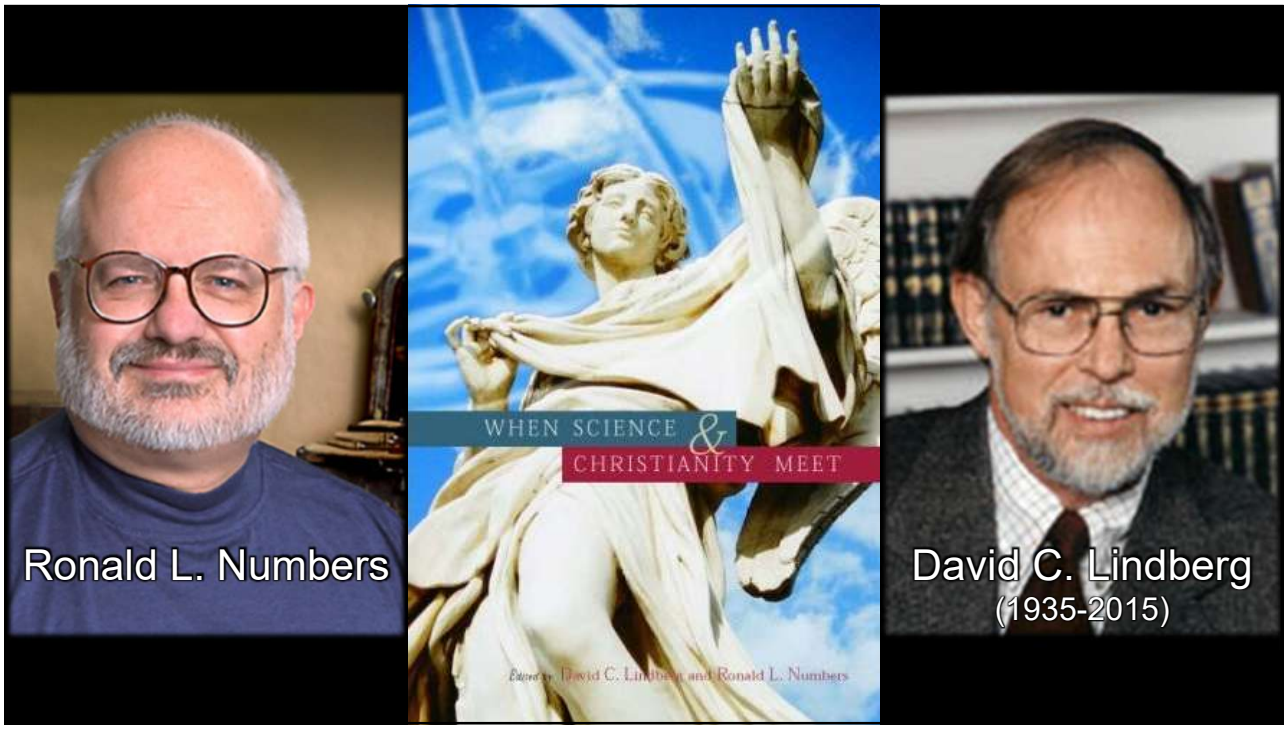
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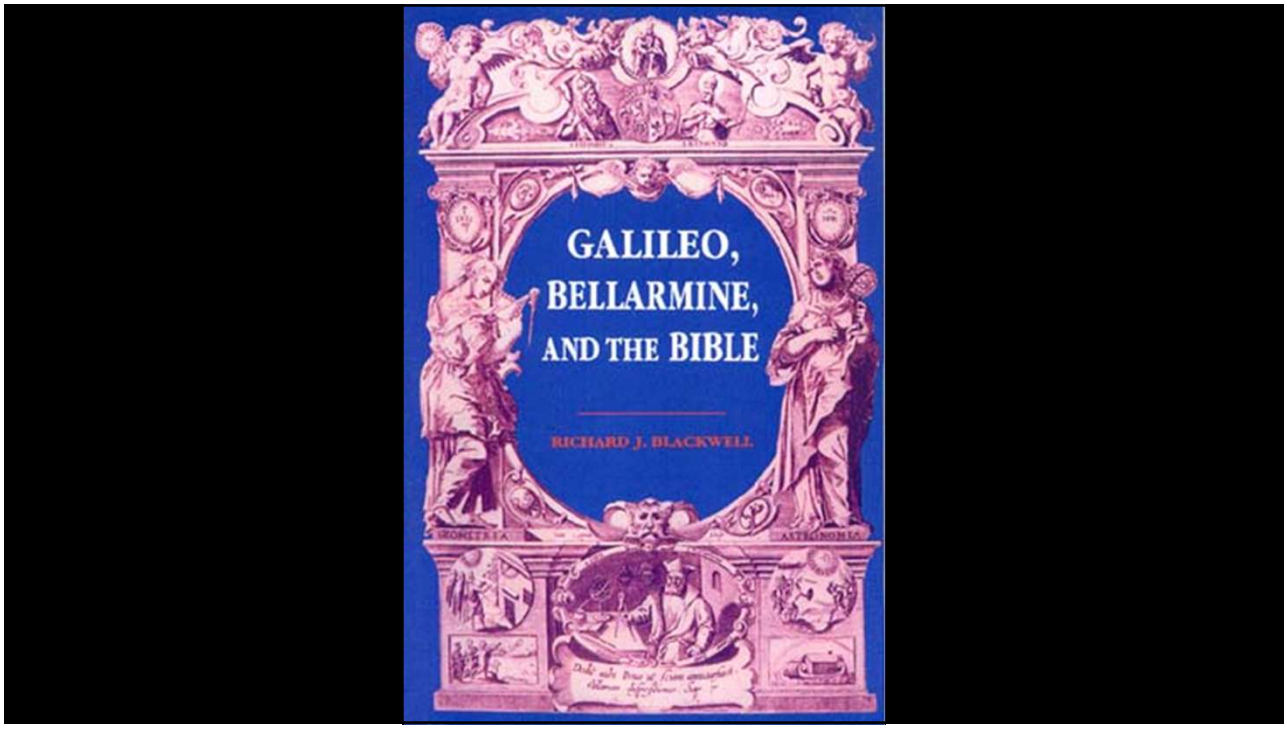
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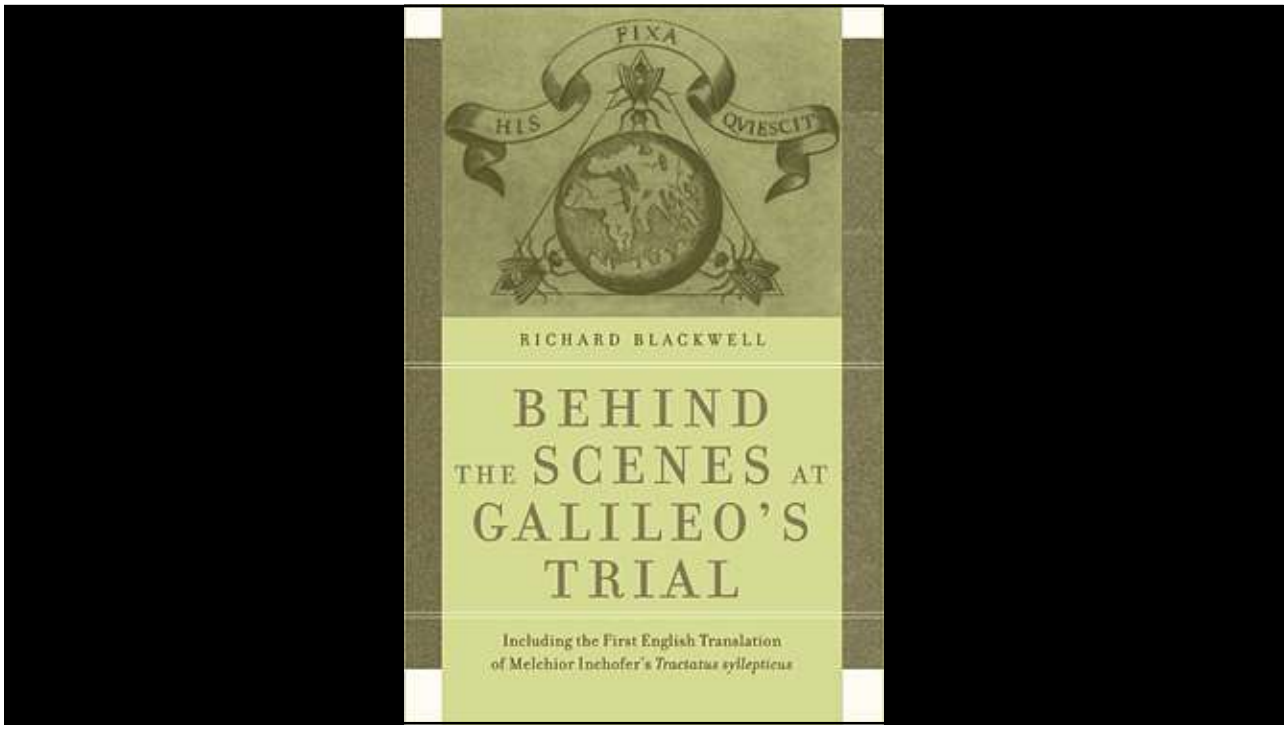
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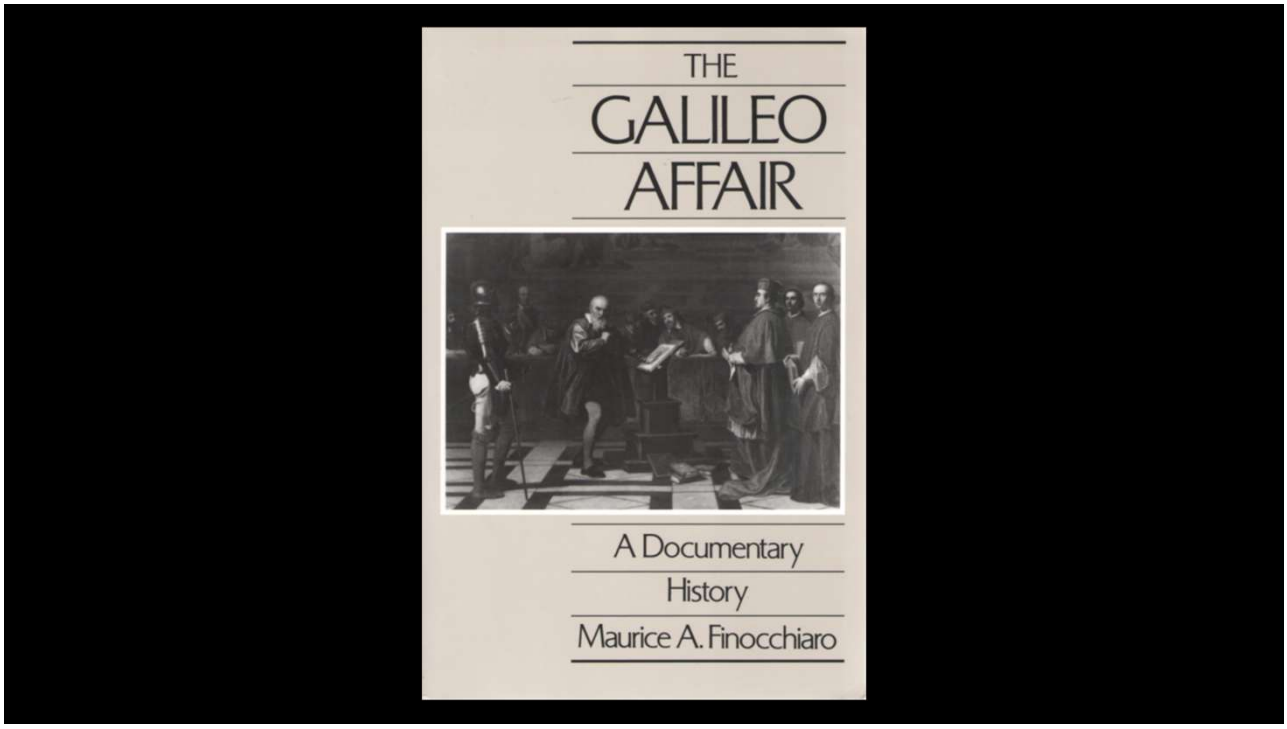
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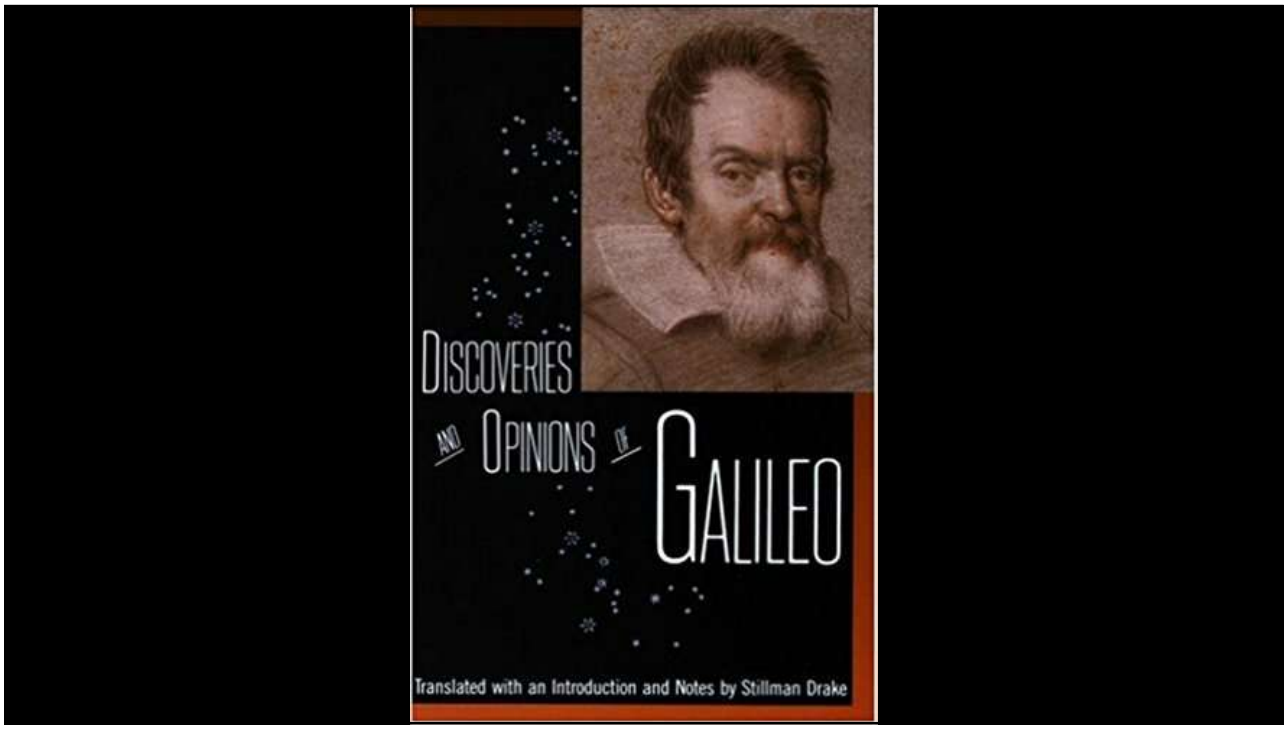
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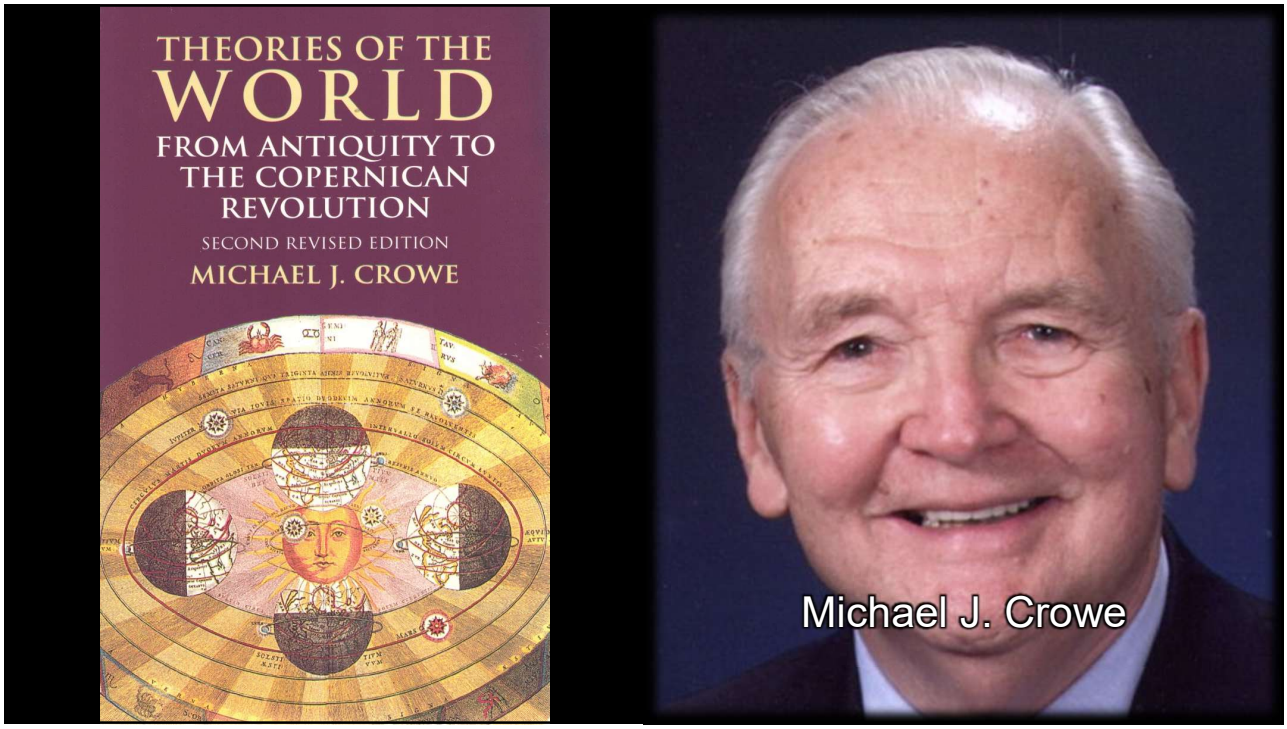
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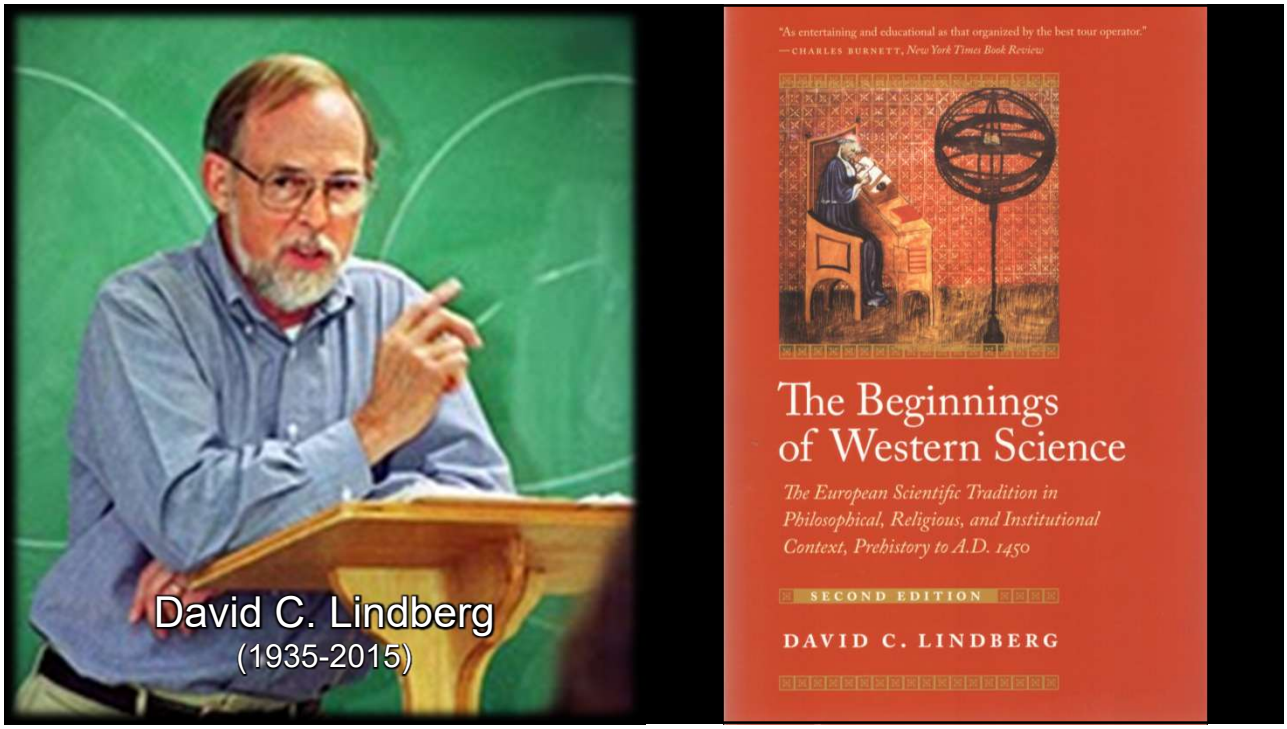
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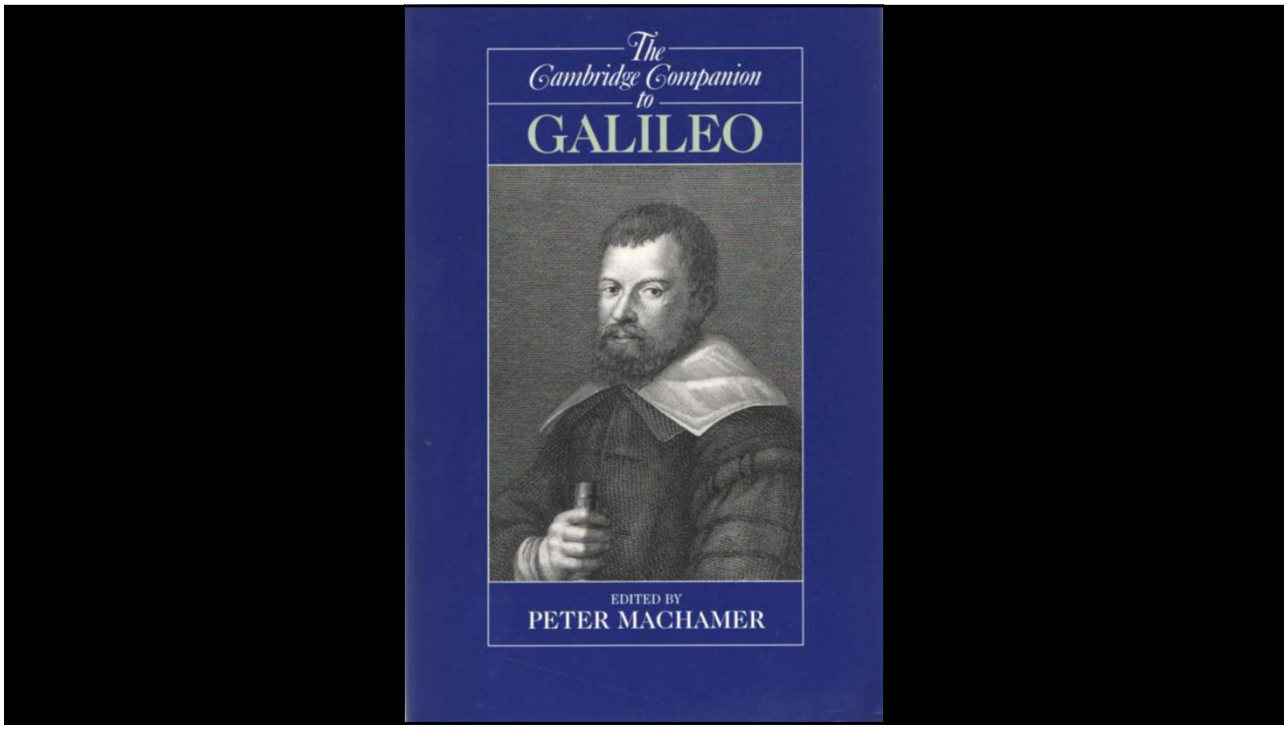
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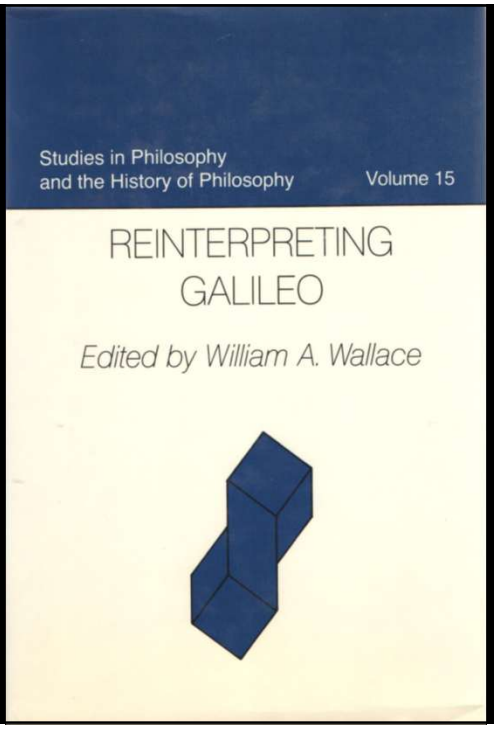
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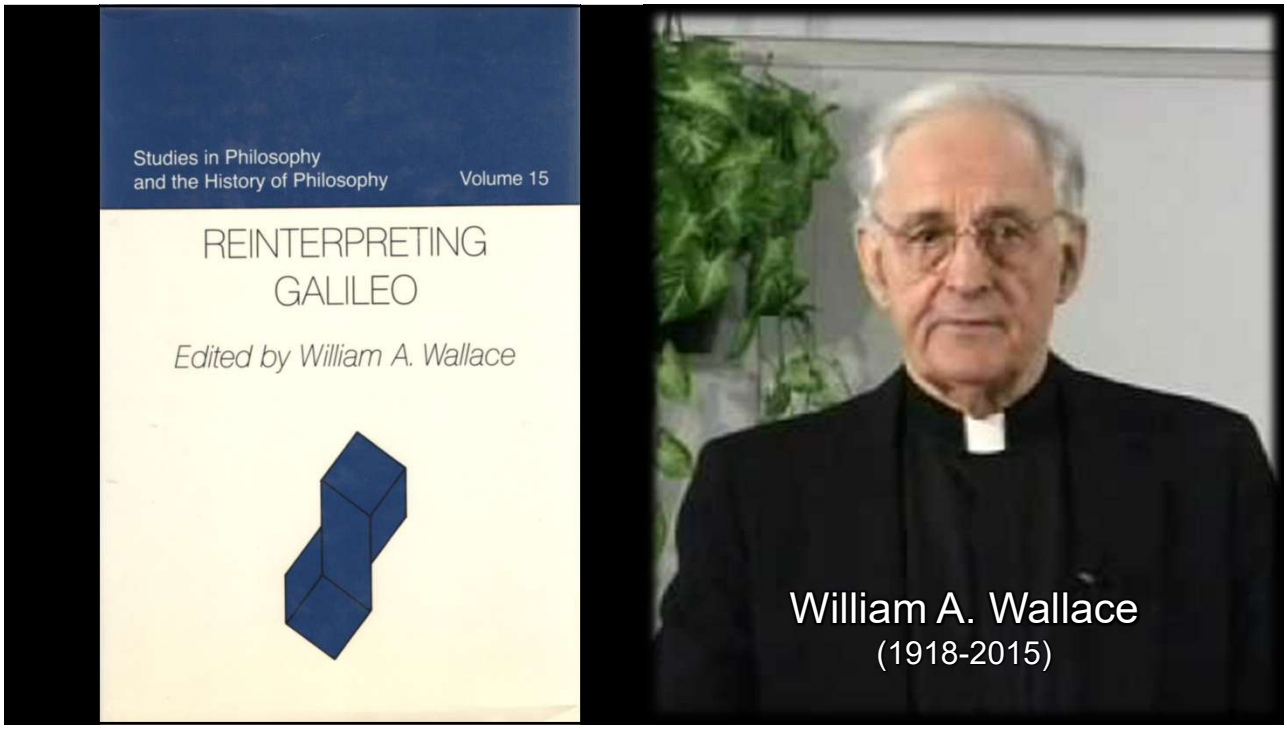
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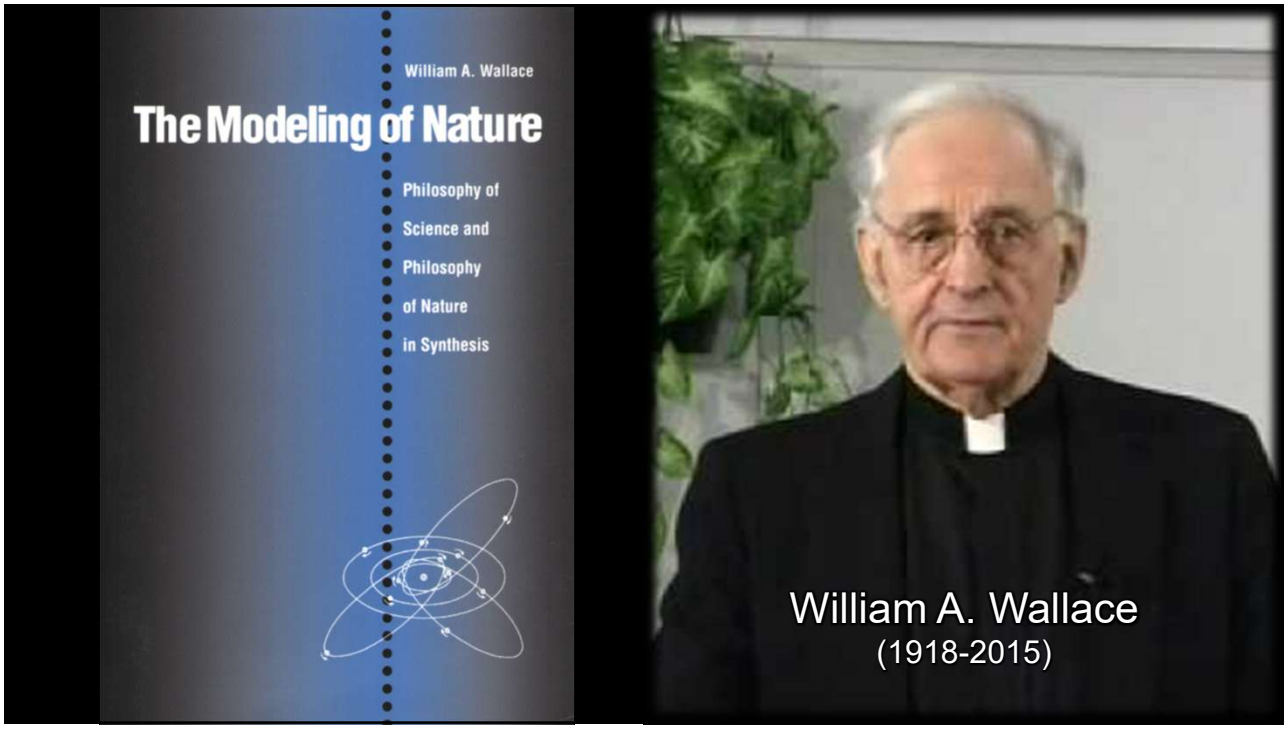
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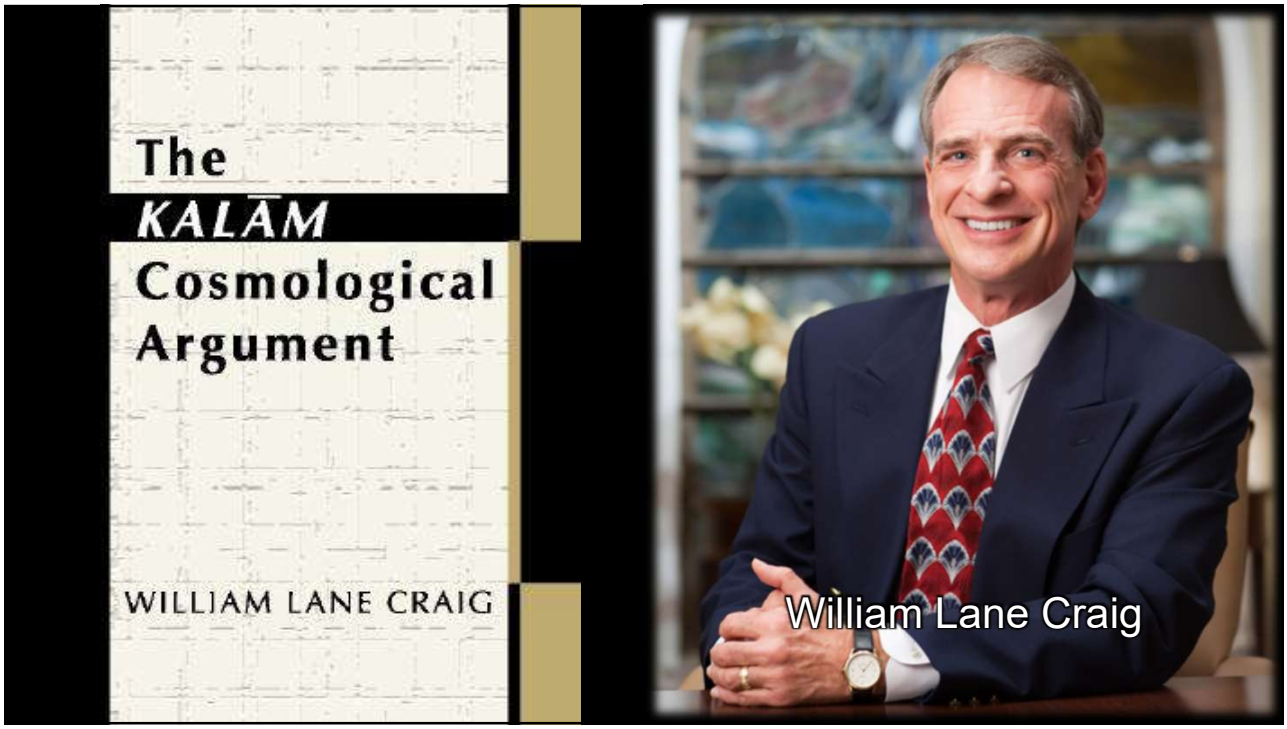
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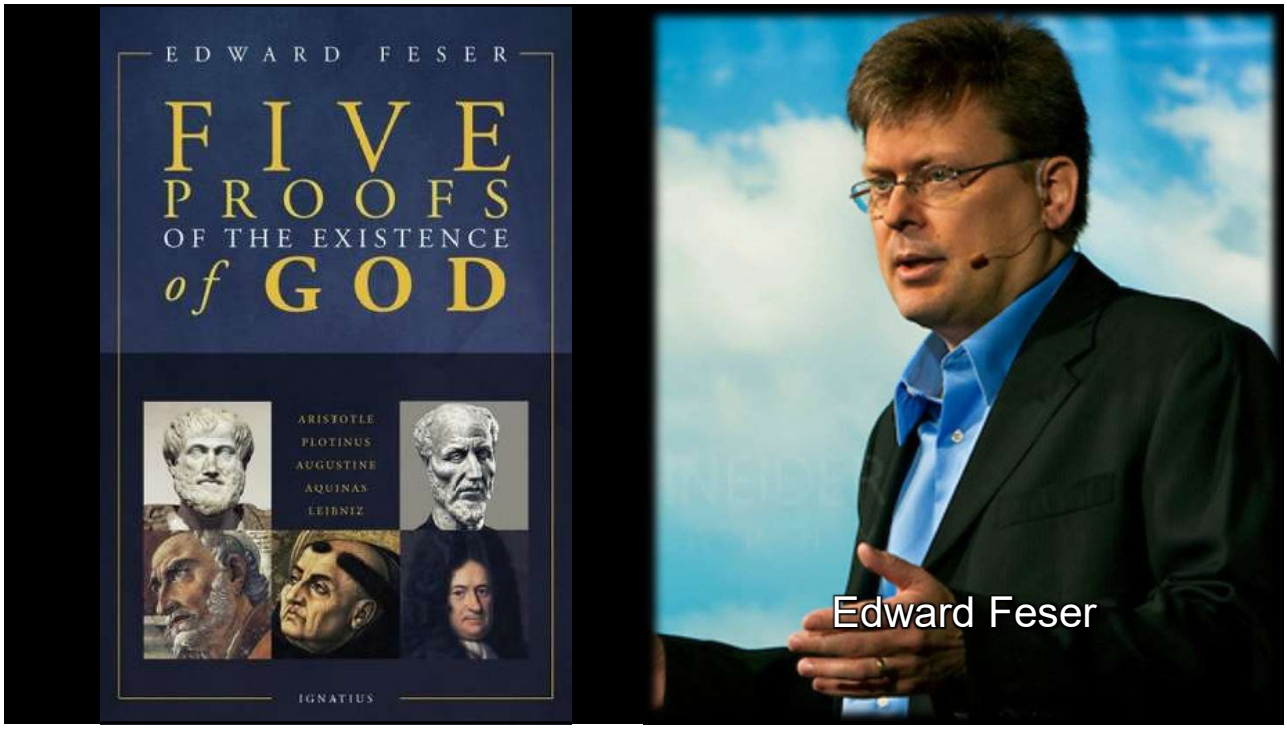
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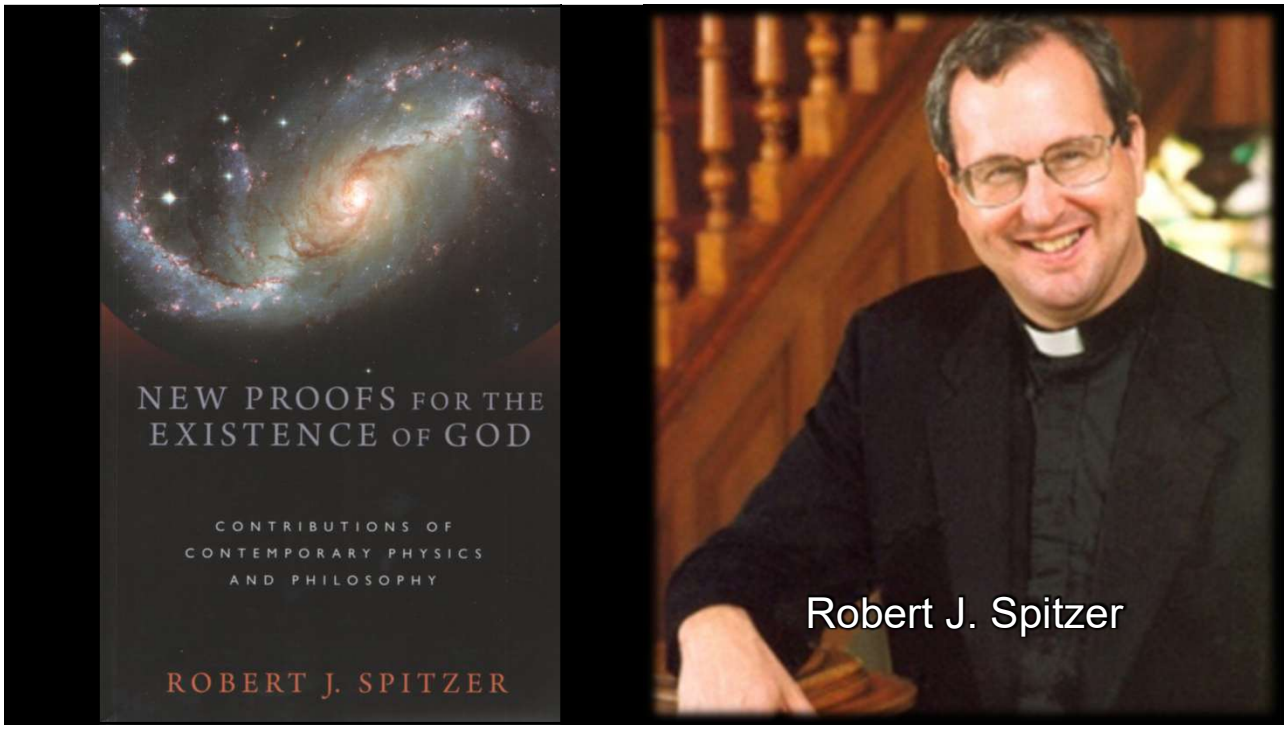
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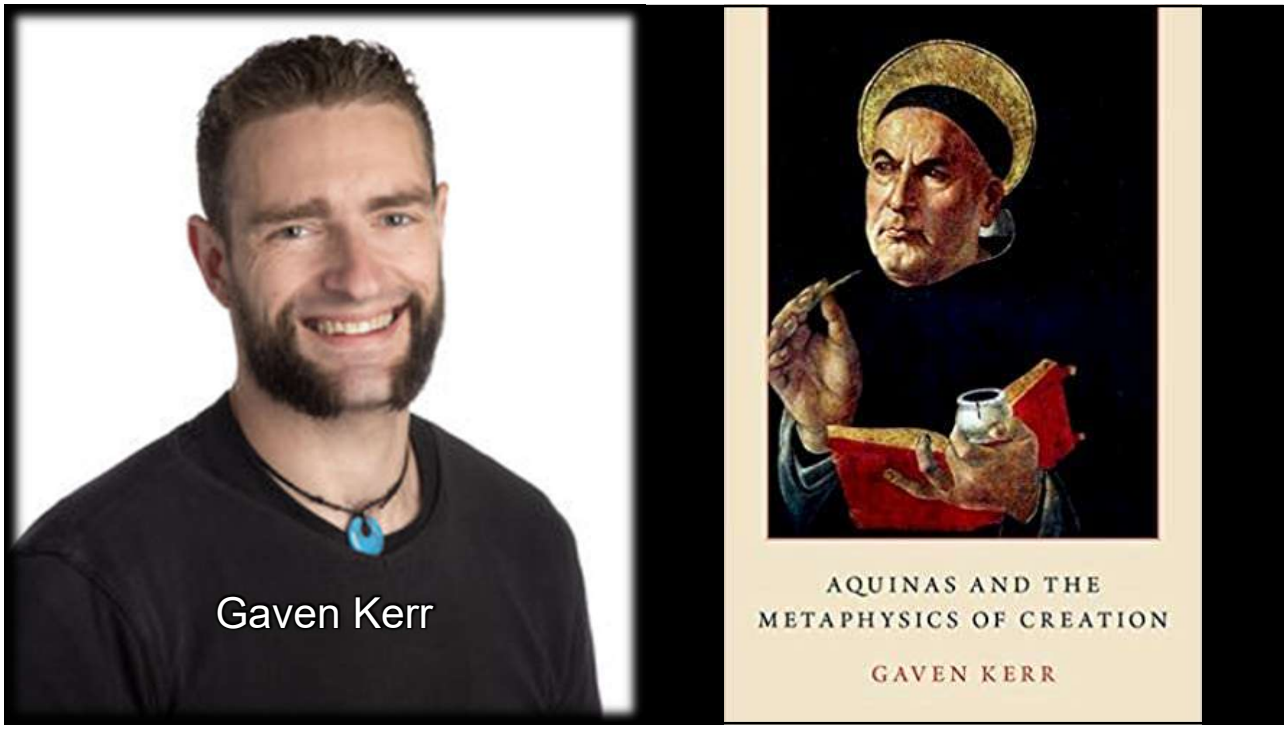
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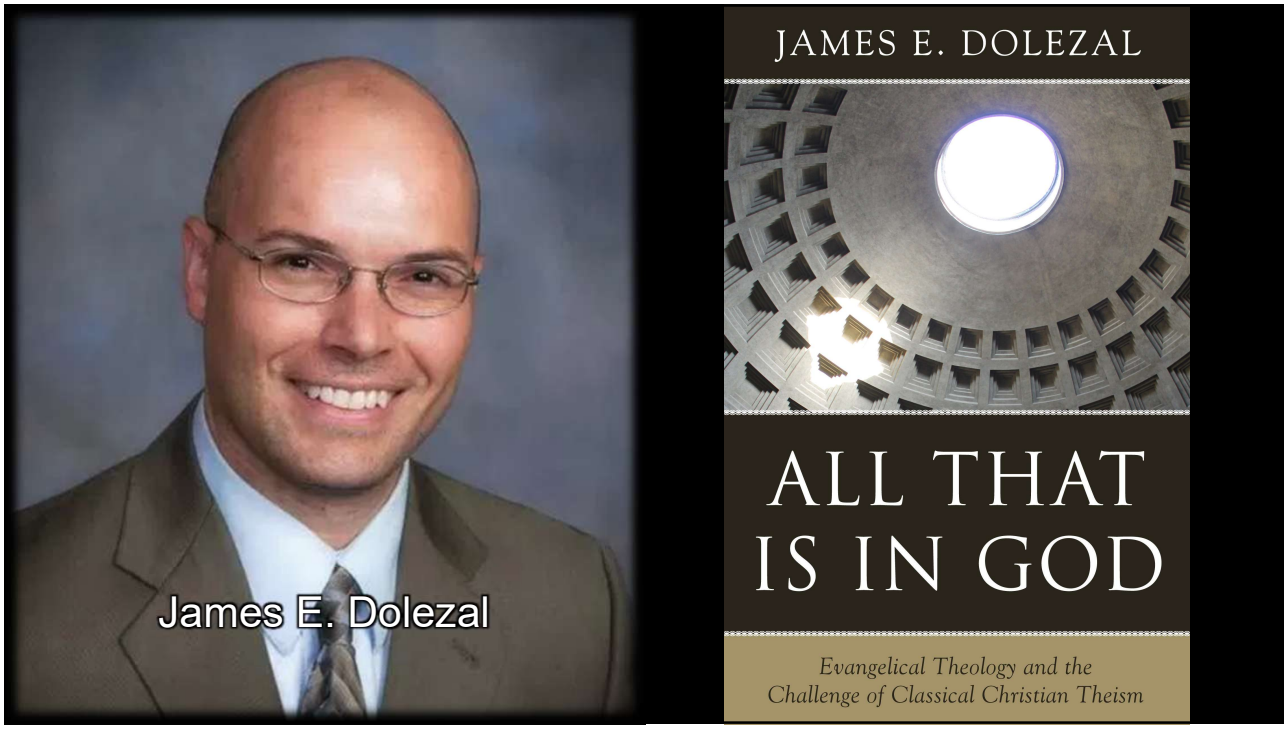
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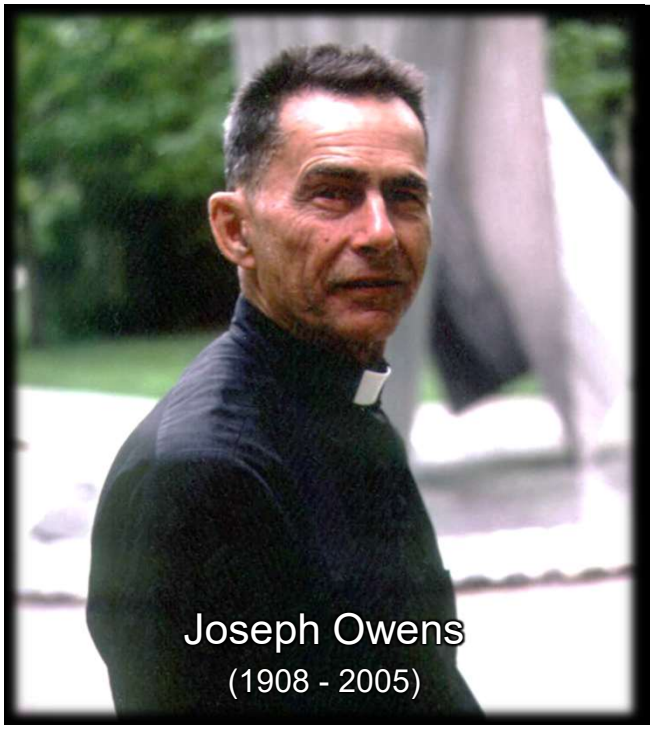

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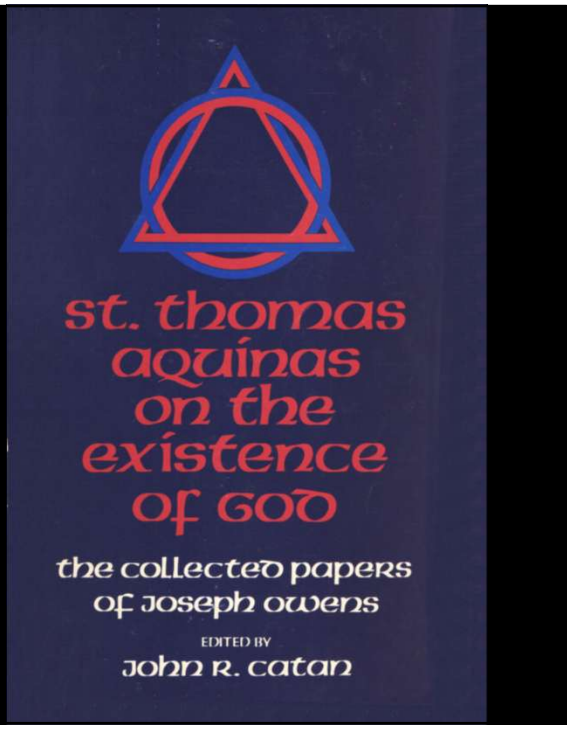

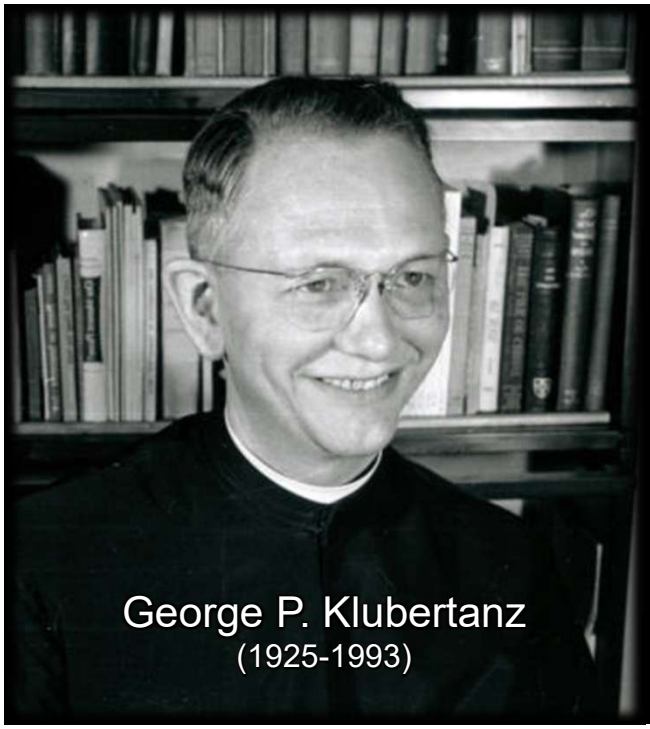

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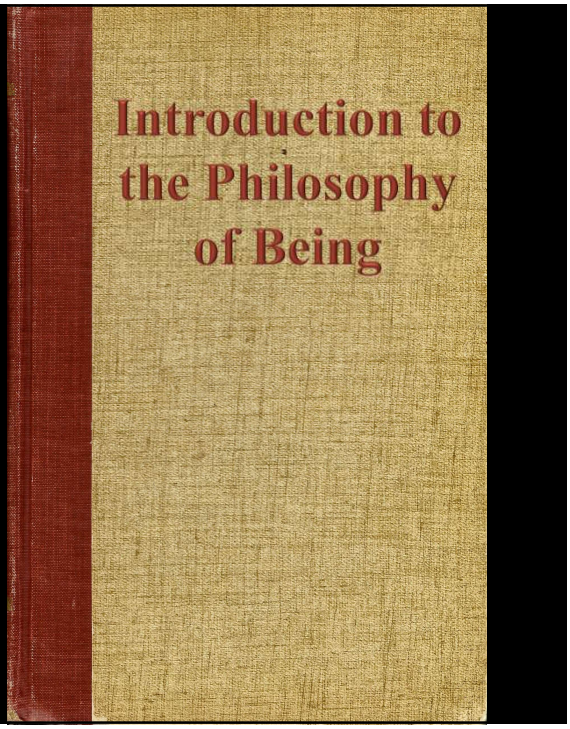

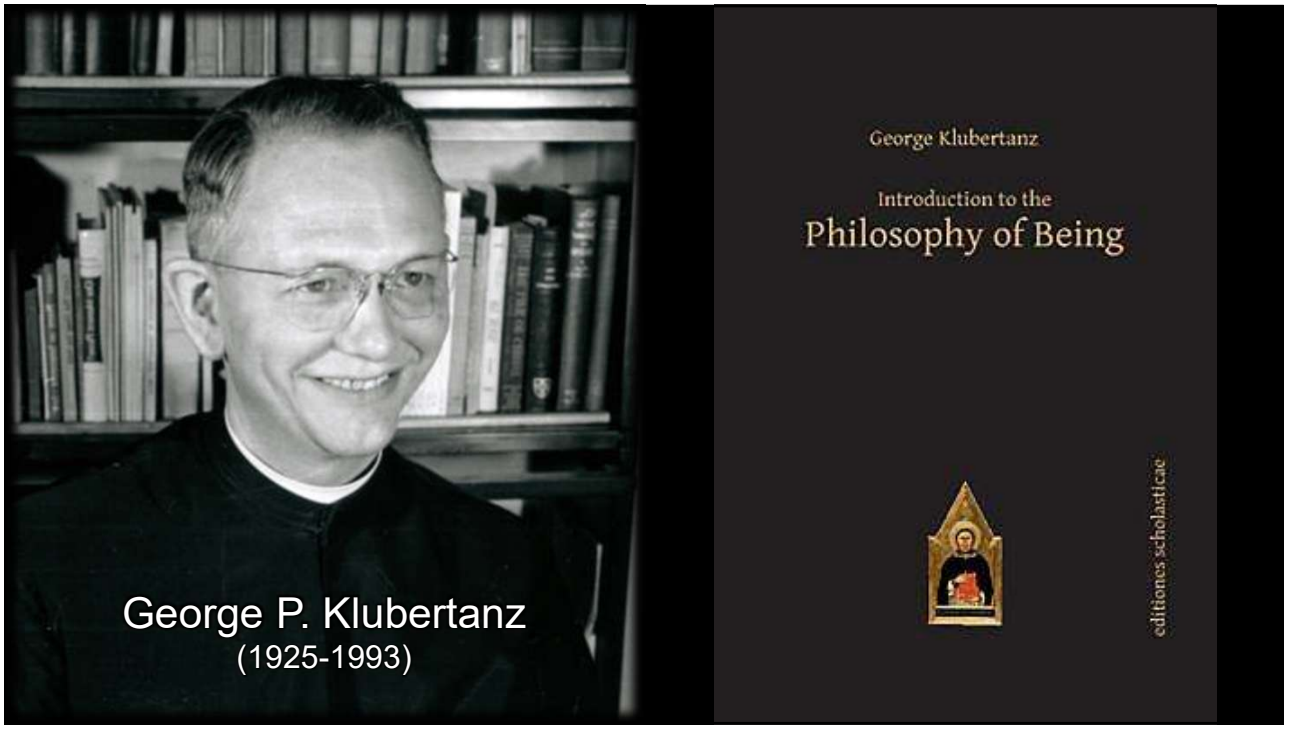
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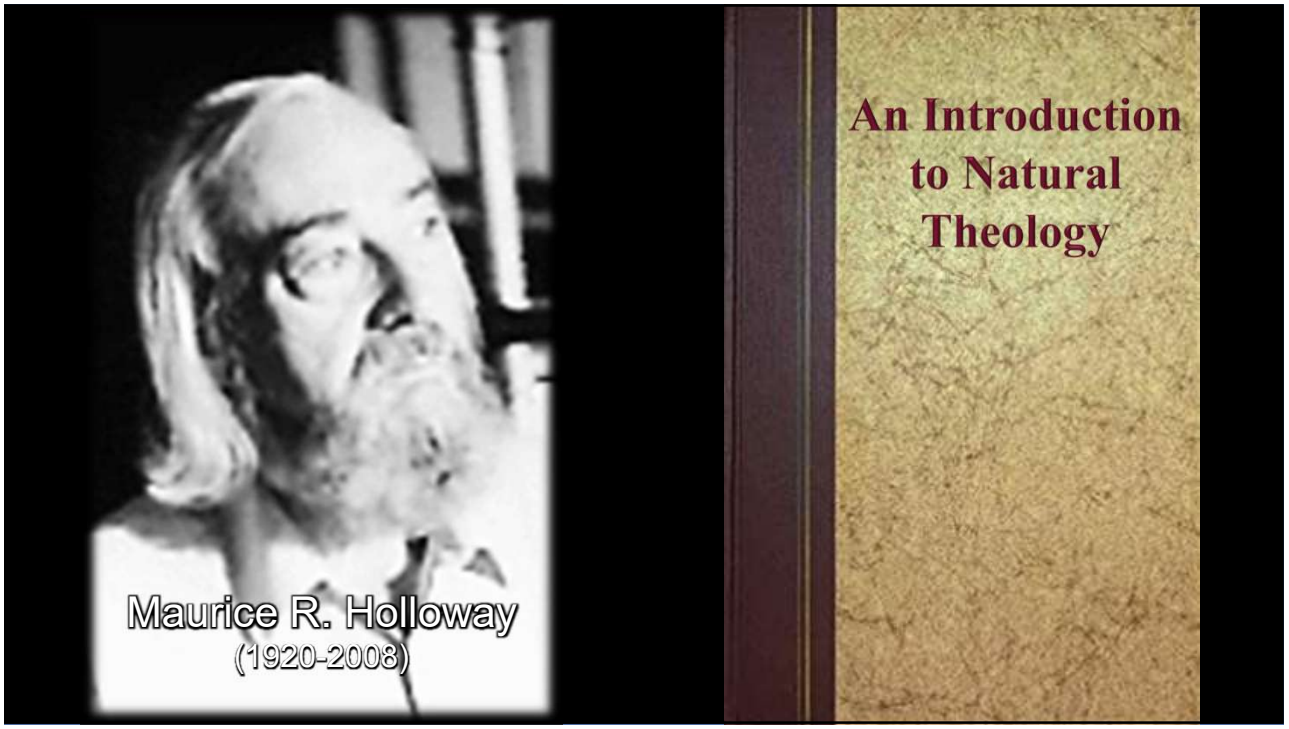
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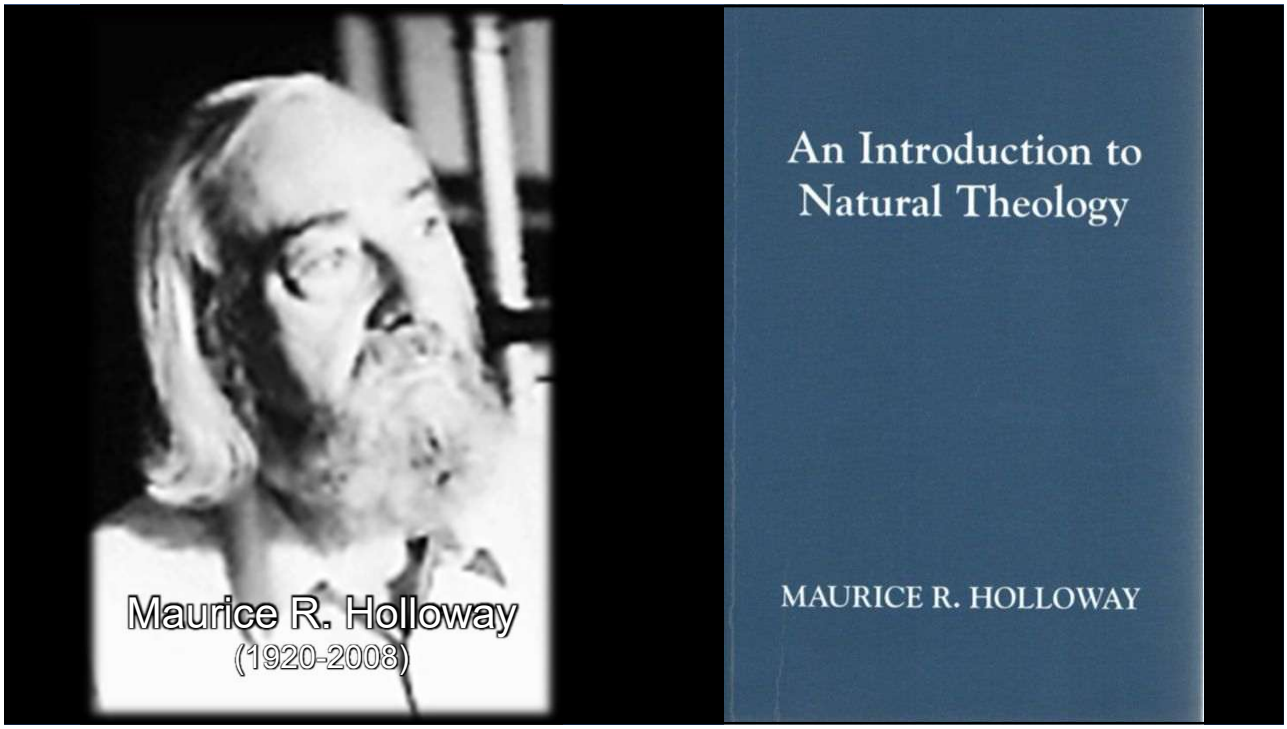
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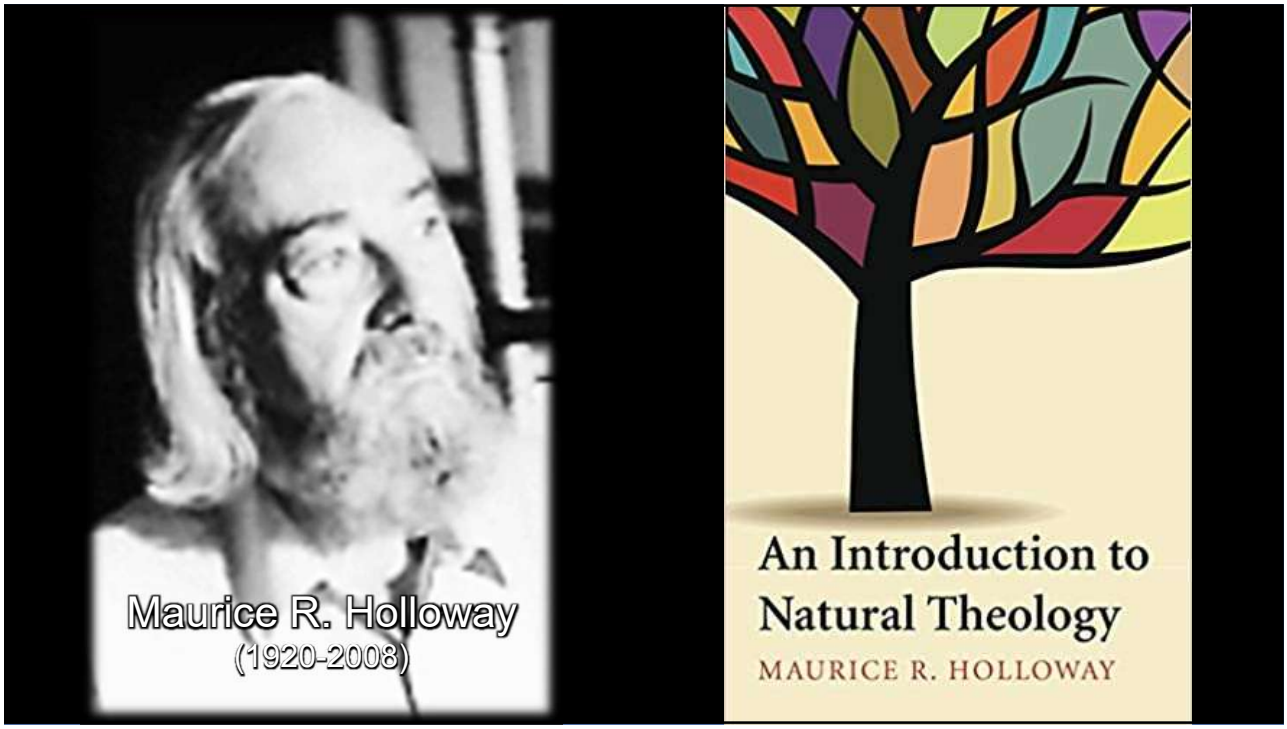
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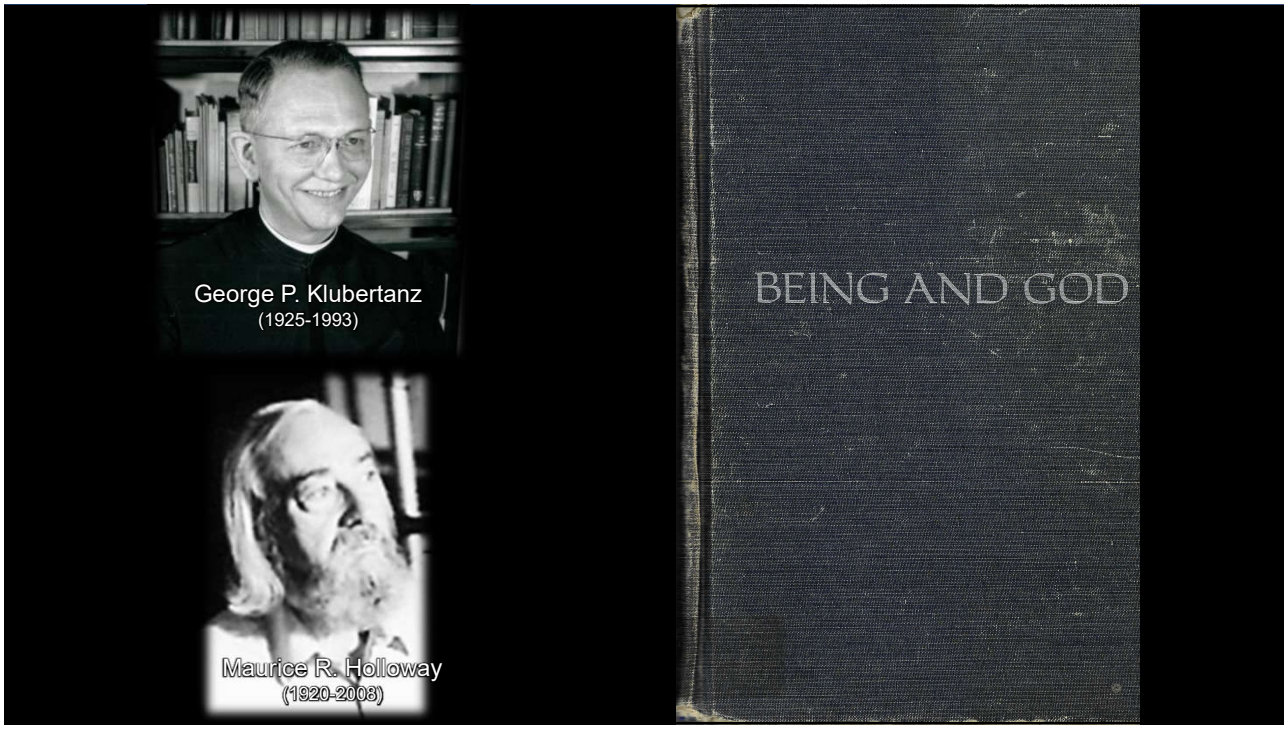
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