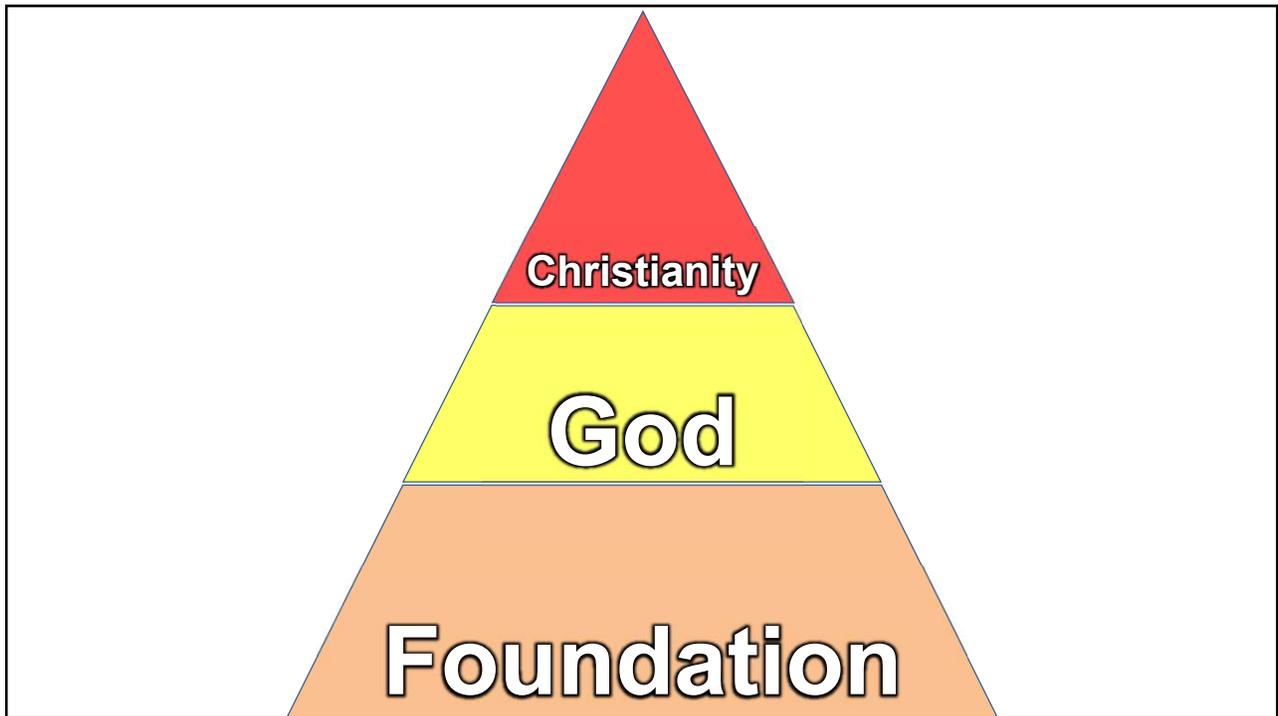
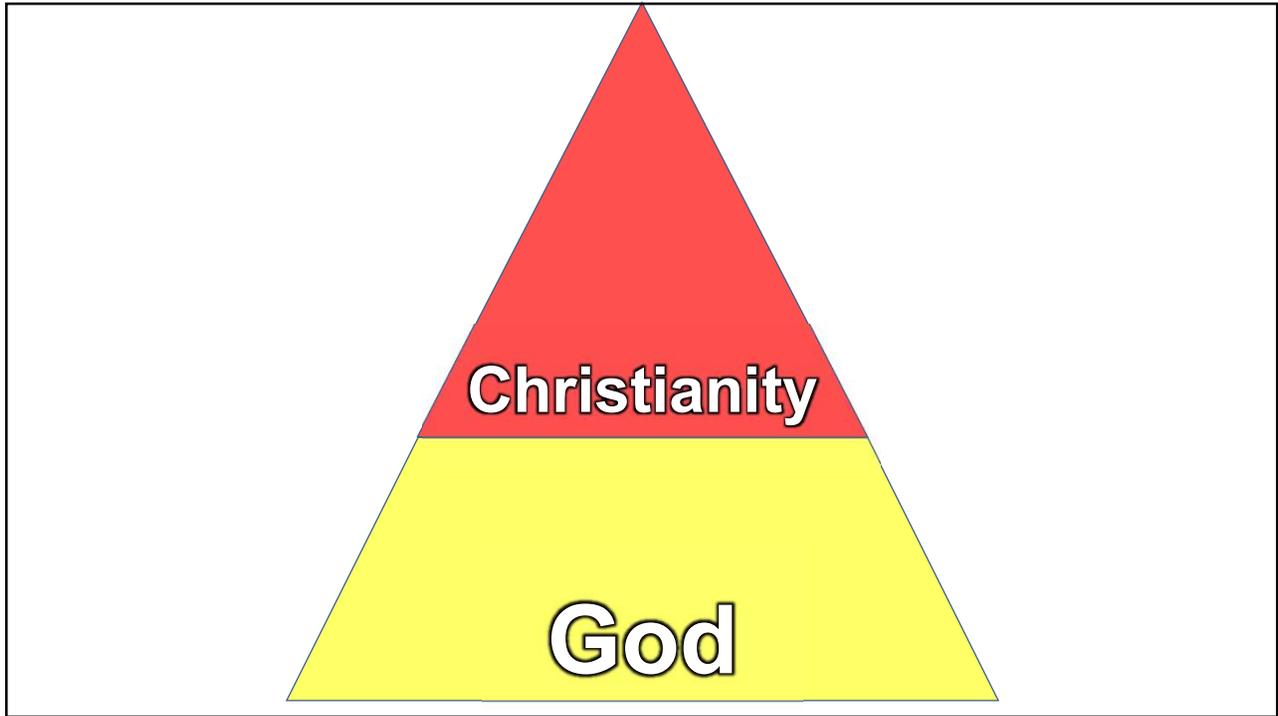


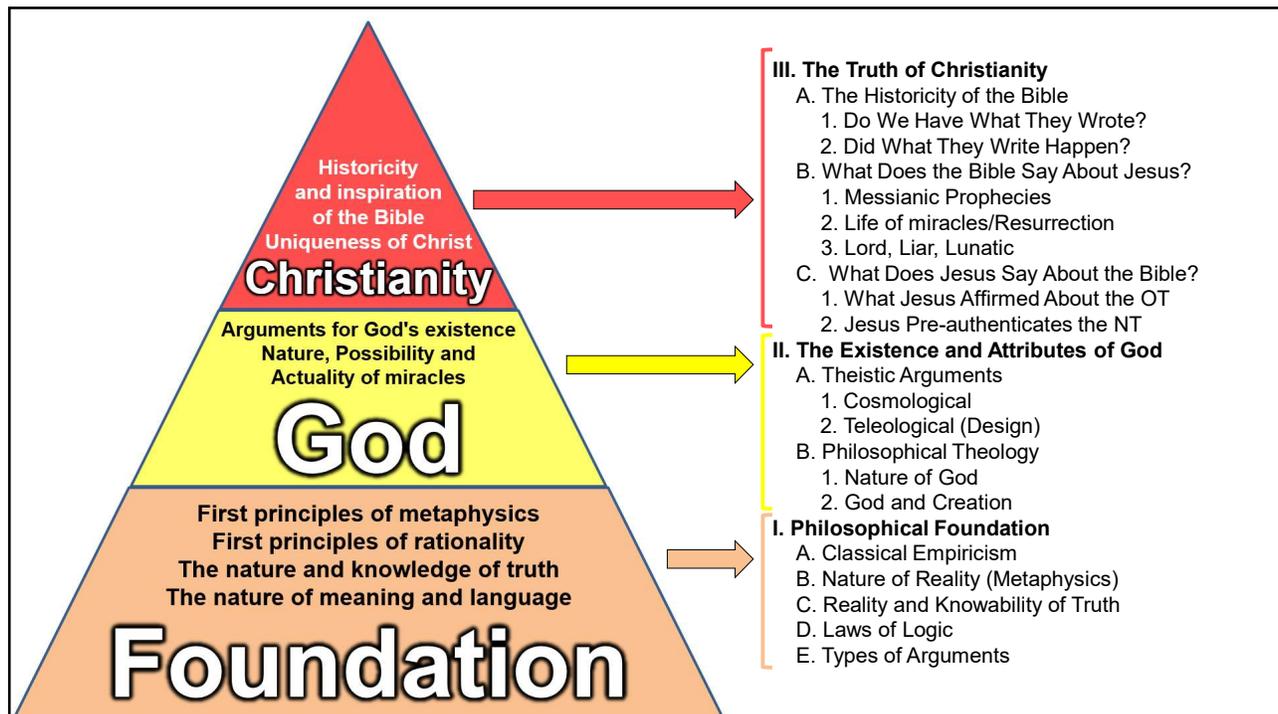
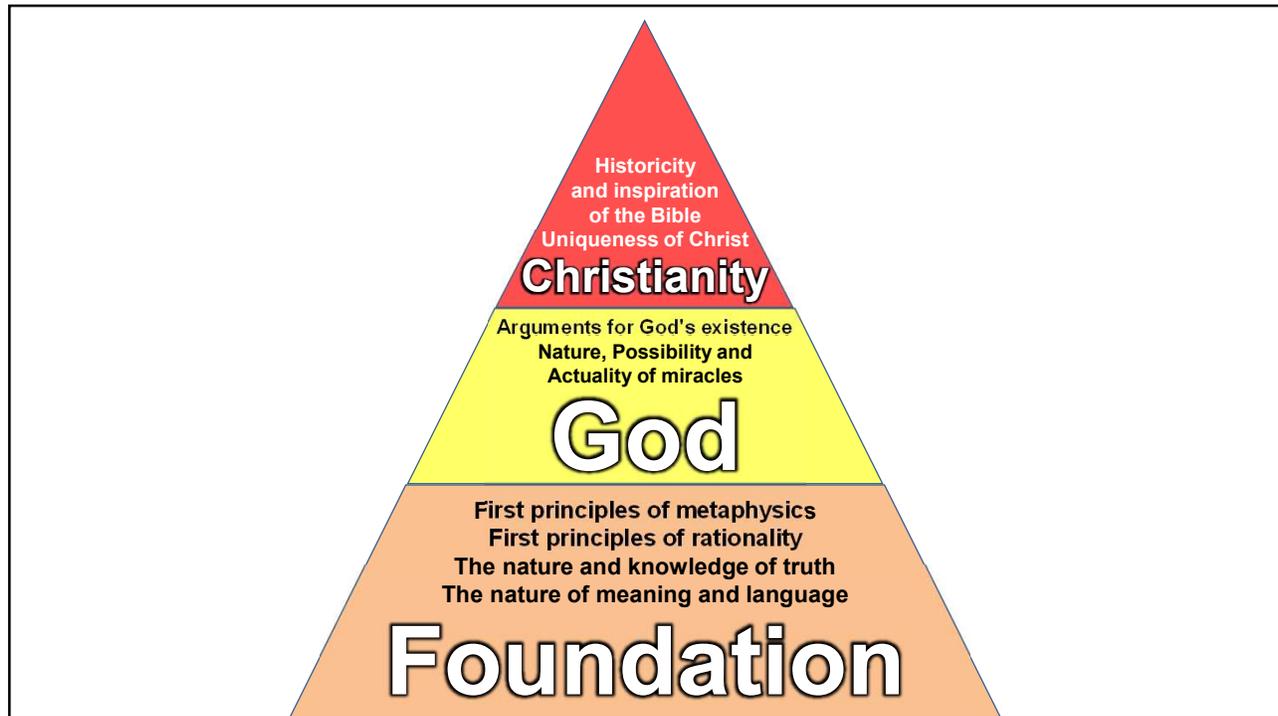
The Existence of God

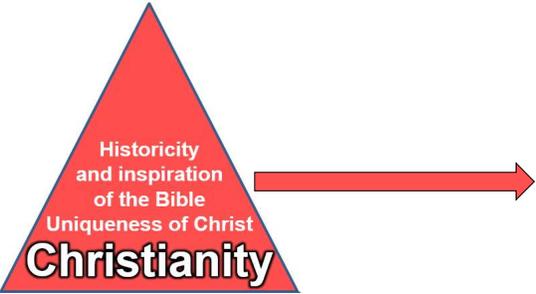
Richard G. Howe, Ph.D.
Provost

*Norman L. Geisler Chair of Christian Apologetics
Professor of Philosophy and Apologetics
Southern Evangelical Seminary*

Classical Apologetics Three-Step Approach







III. The Truth of Christianity

A. The Historicity of the Bible

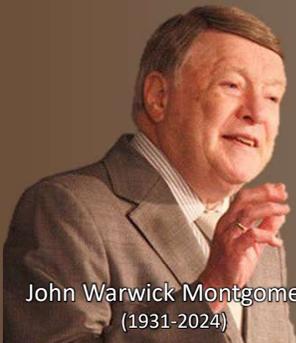
1. Do We Have What They Wrote?
2. Did What They Write Happen?

B. What Does the Bible Say About Jesus?

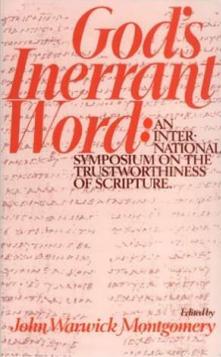
1. Messianic Prophecies
2. Life of miracles/Resurrection
3. Lord, Liar, Lunatic

C. What Does Jesus Say About the Bible?

1. What Jesus Affirmed About the OT
2. Jesus Pre-authenticates the NT



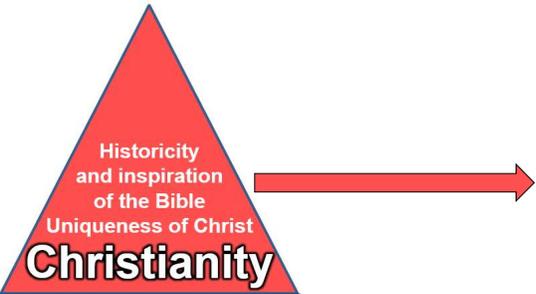
John Warwick Montgomery
(1931-2024)



"The Case for Inerrancy: A Methodological Analysis"



R. C. Sproul
(1939-2017)



III. The Truth of Christianity

A. The Historicity of the Bible

1. Do We Have What They Wrote?
2. Did What They Write Happen?

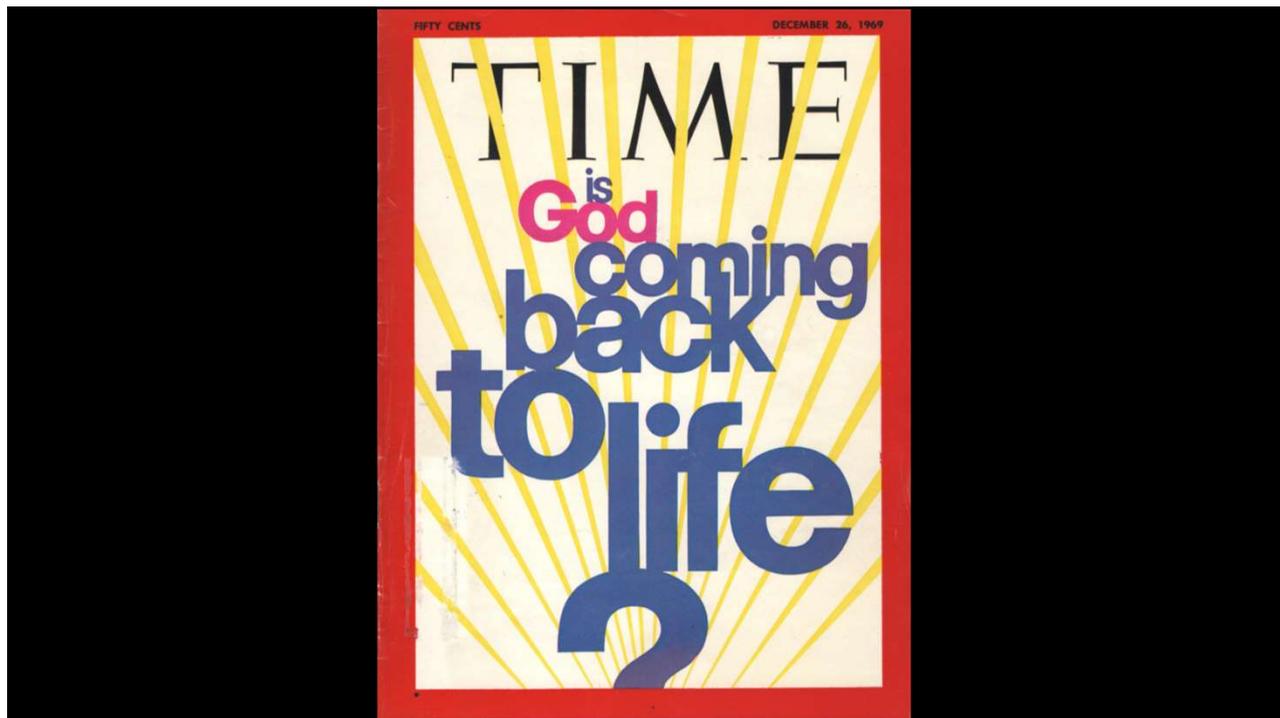
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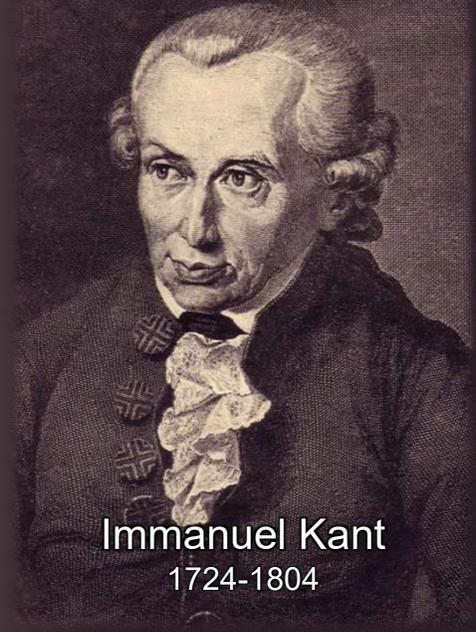
1. What Jesus Affirmed About the OT
2. Jesus Pre-authenticates the NT

It should be observed that this third step in the Classical Model is hardly distinguishable from the Evidentialist Model.



"Two things fill the mind with ever new and increasing admiration and awe, the oftener and more steadily we reflect on them: the starry heavens above me and the moral law within me."

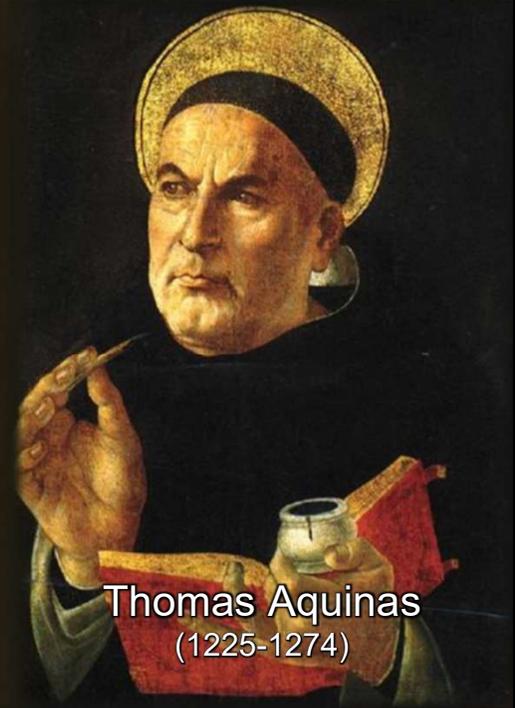
[*Critique of Practical Reason*, trans. Lewis White Beck (New York: Macmillan Publishing, 1956), 166]



Immanuel Kant
1724-1804

"Beginning with sensible things, our intellect is led to the point of knowing about God that He exists, and other such characteristics that must be attributed to the First Principle."

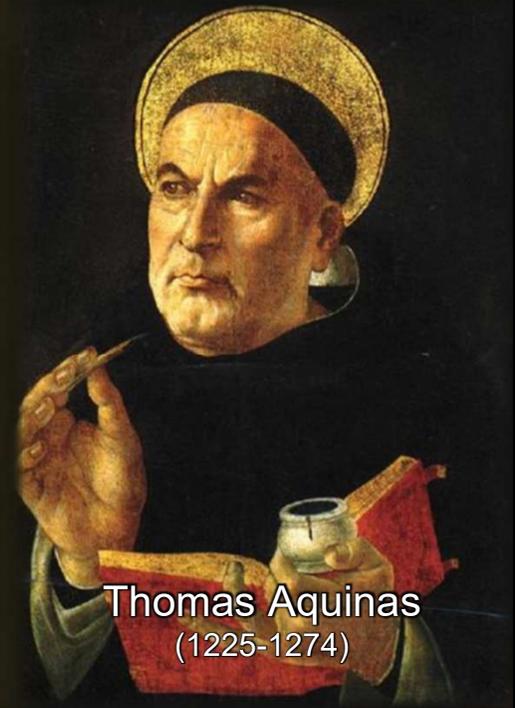
[*Summa Contra Gentiles*, I, 3, §3, trans. Anton C. Pegis (Notre Dame: University of Notre Dame Press, 1975), 64]



Thomas Aquinas
(1225-1274)

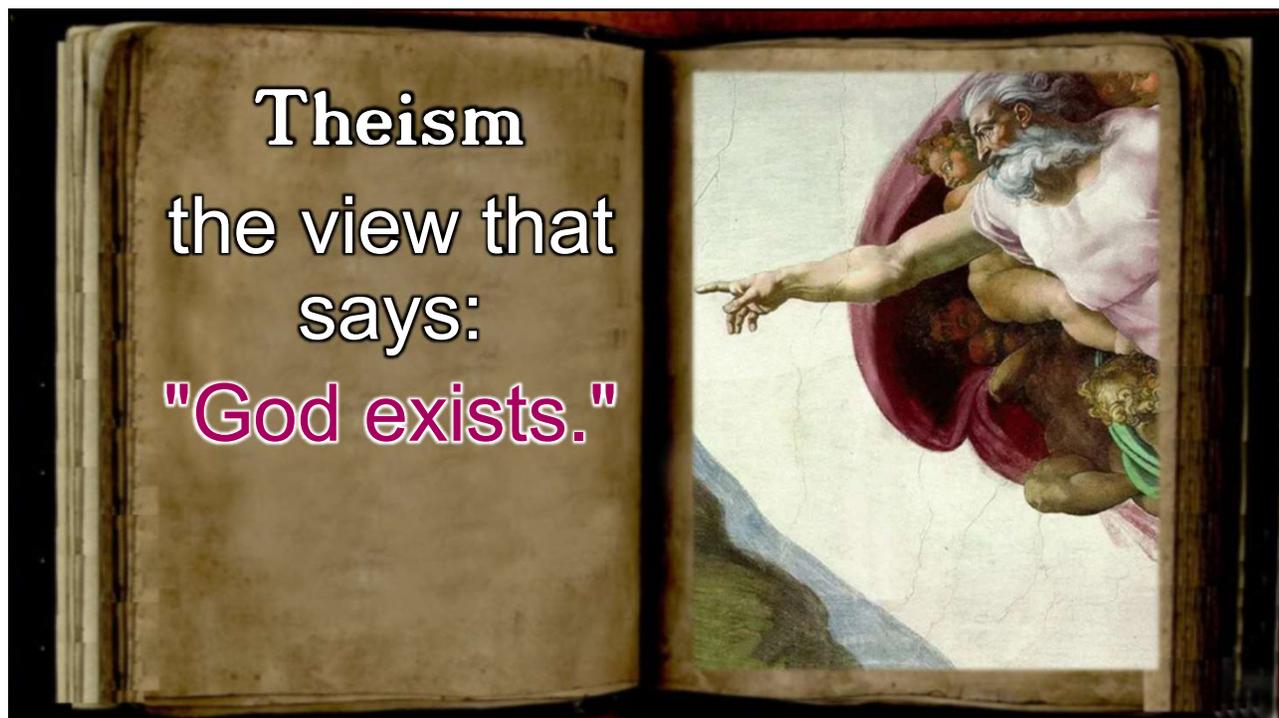
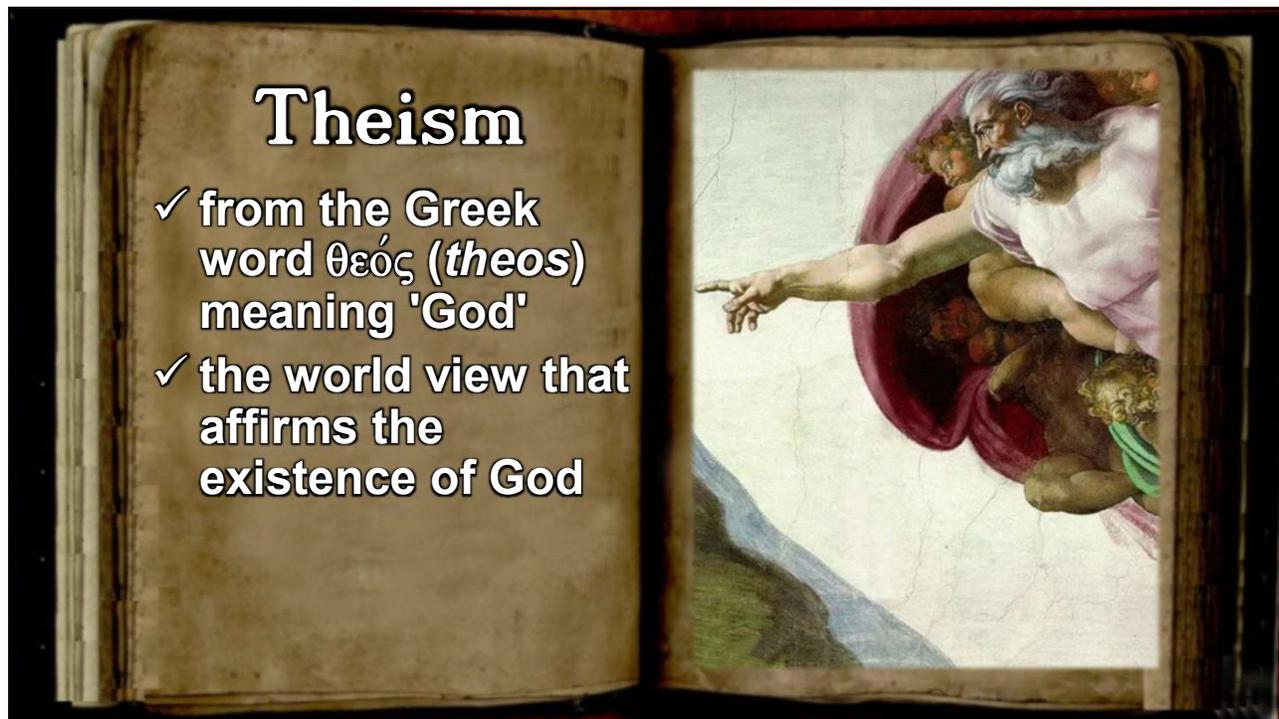
"From every effect the existence of its proper cause can be demonstrated, so long as its effects are better known to us; because since every effect depends upon its cause, if the effect exists, the cause must pre-exist. Hence the existence of God ... can be demonstrated from those of His effects which are known to us.."

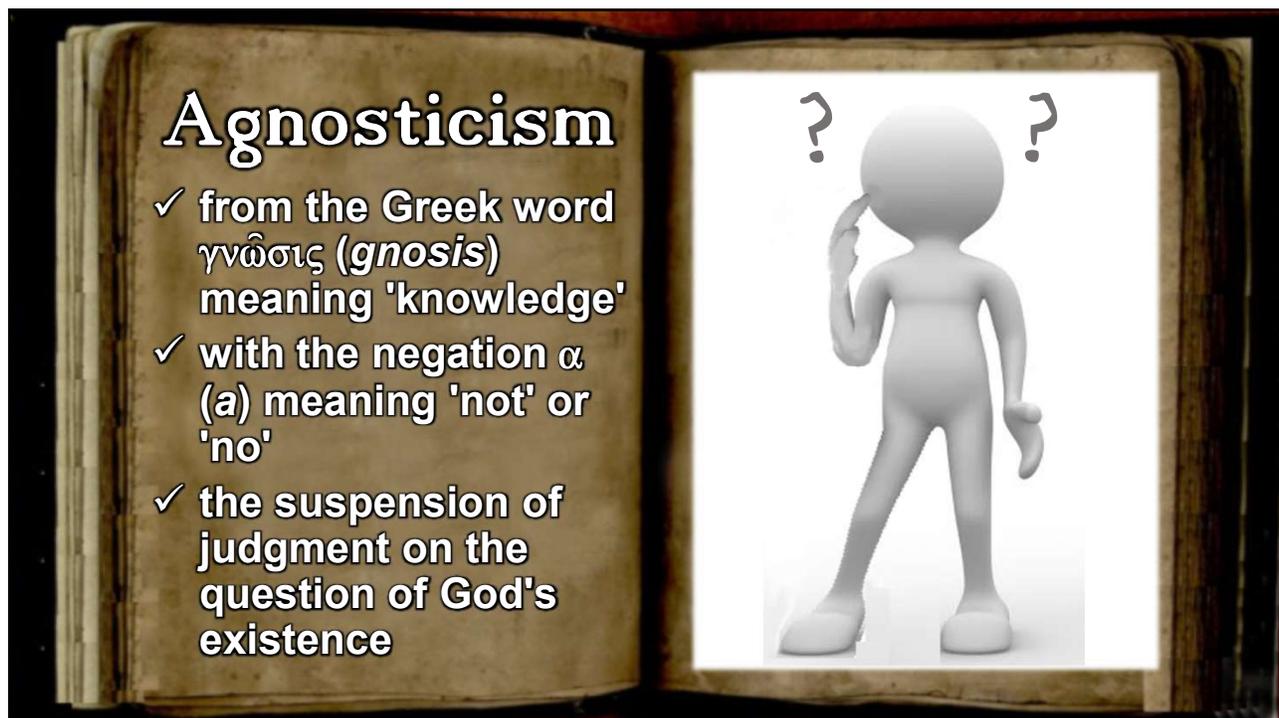
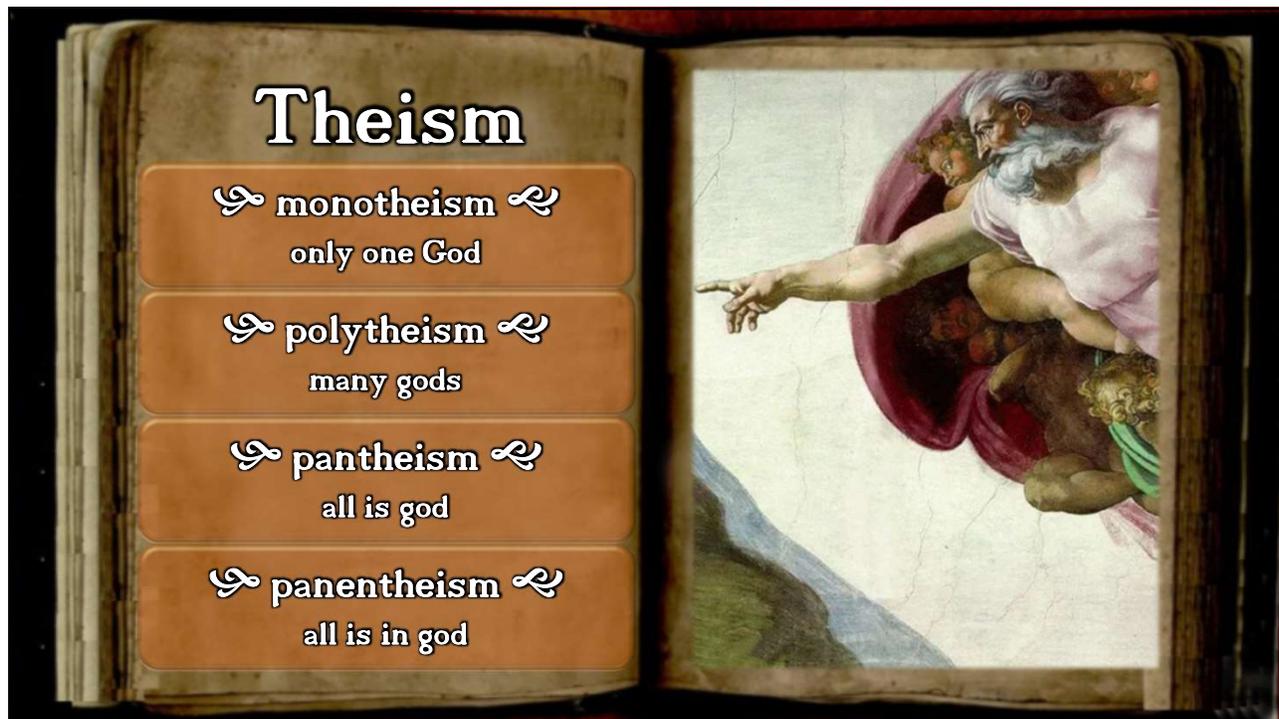
[*Summa Theologica*, I, Q2, Art. 2, trans. Fathers of the English Dominican Province (Westminster: Christian Classics, 1948), 12]

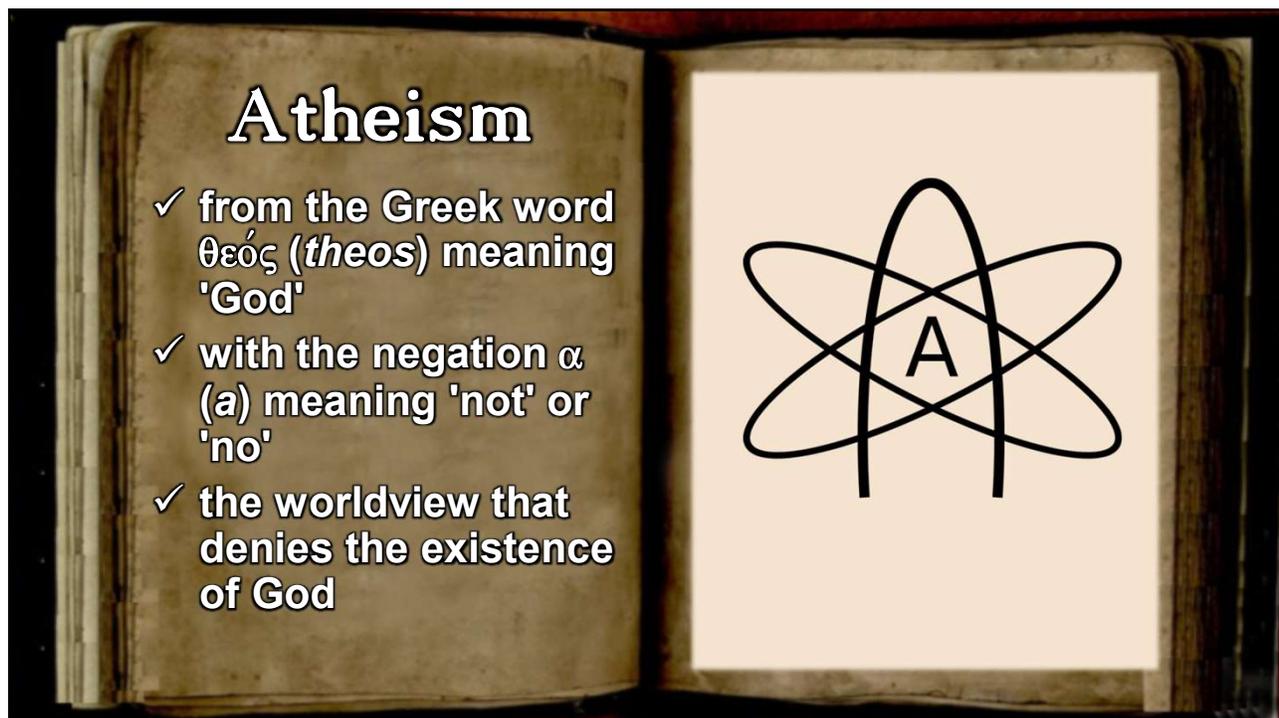
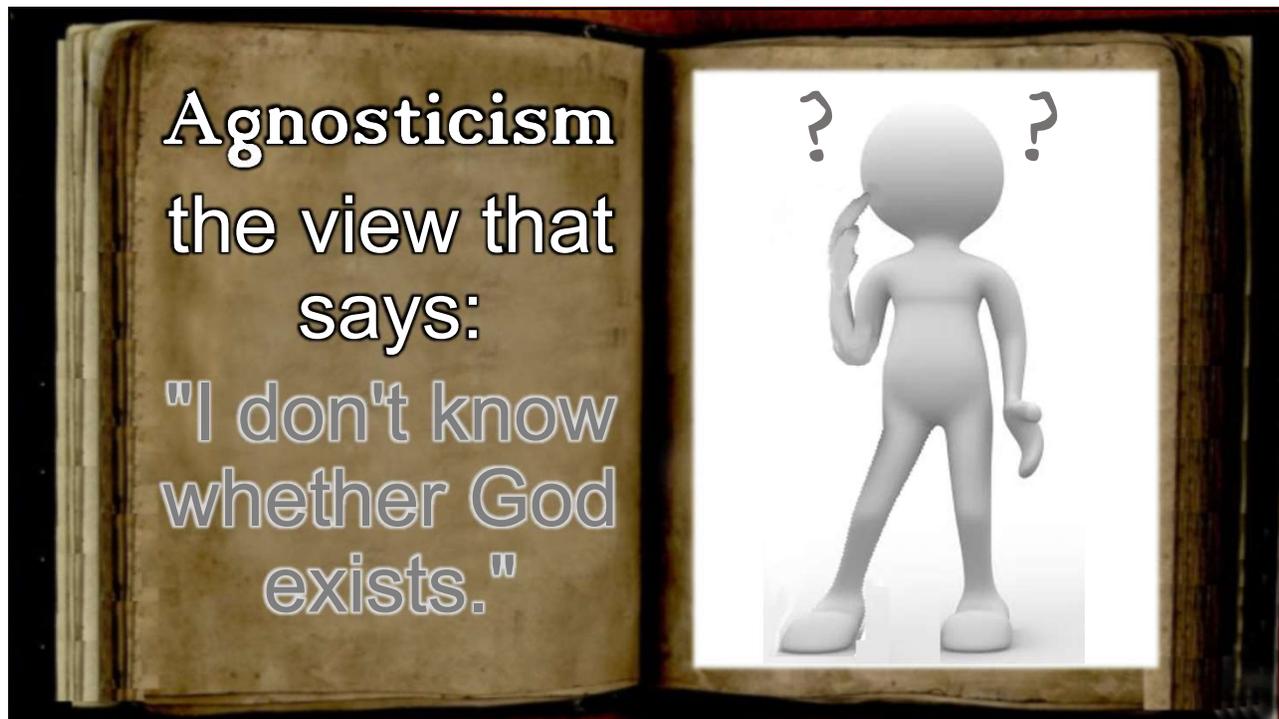


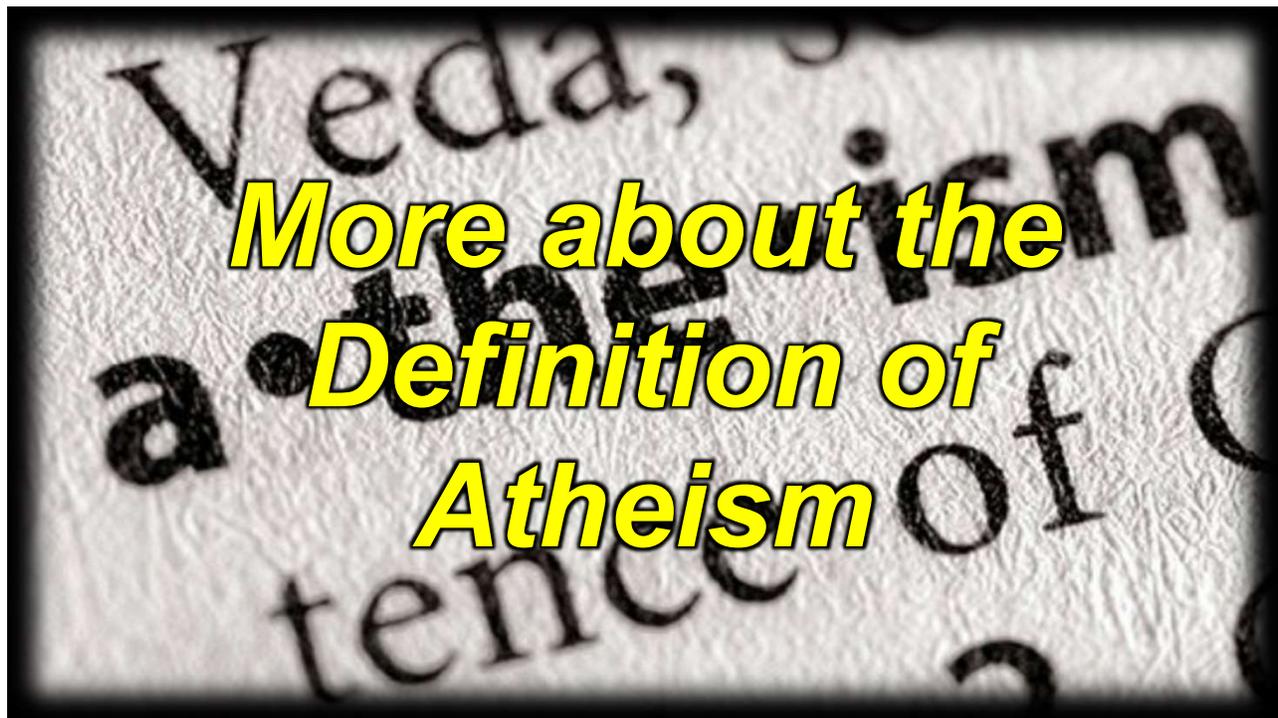
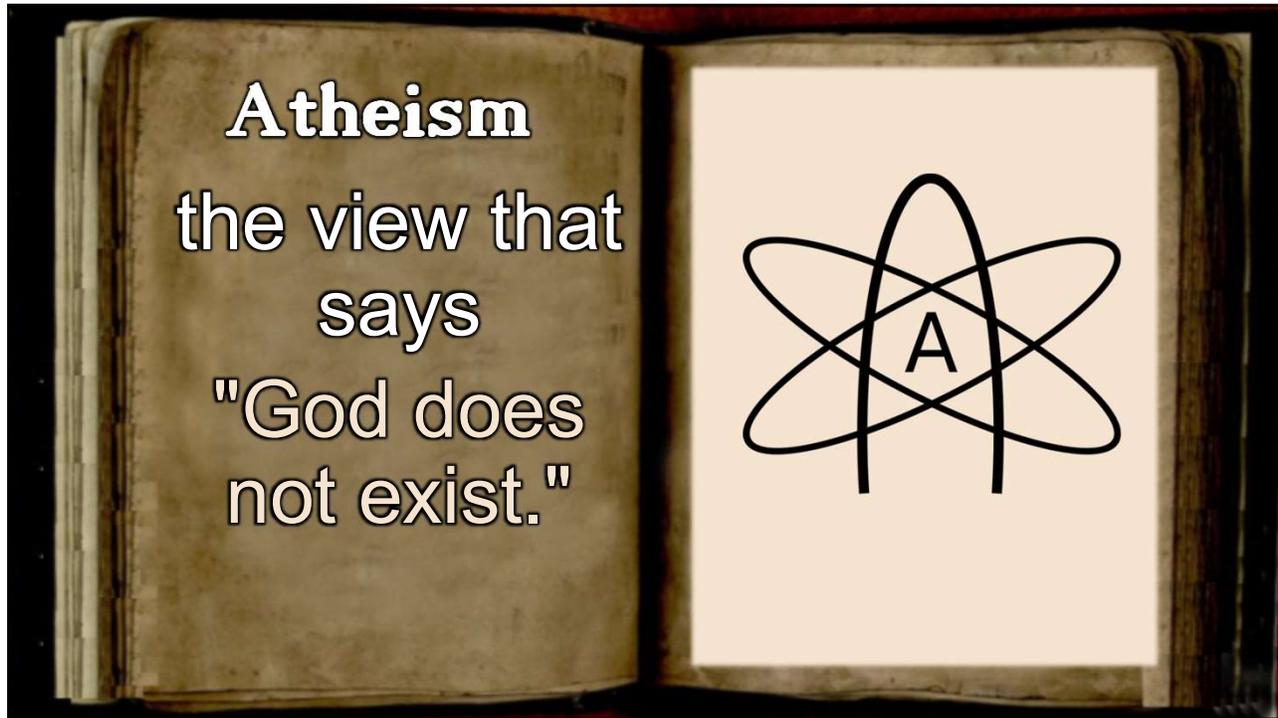
Thomas Aquinas
(1225-1274)





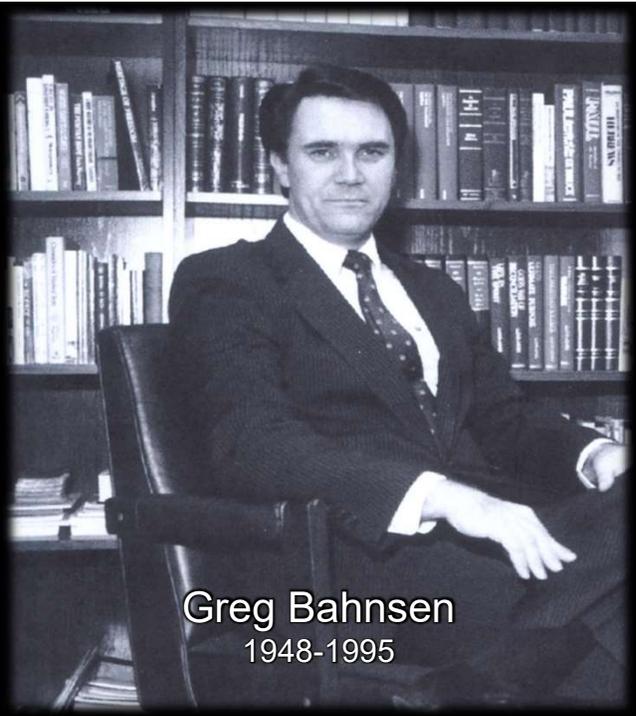




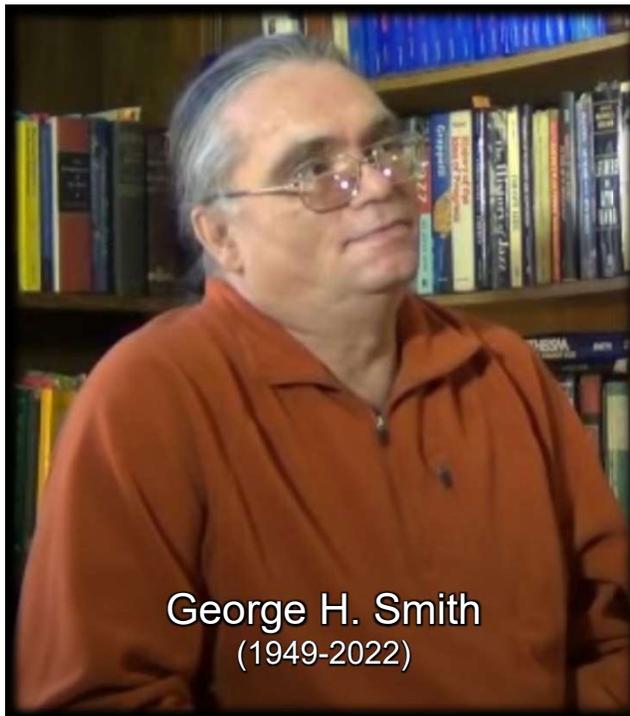




George H. Smith
(1949-2022)



Greg Bahnsen
1948-1995



George H. Smith
(1949-2022)

"There is no atheistic worldview. Let's be clear about that. Atheism is simply the absence of belief in God."

[Debate between George H. Smith and Greg Bahnsen]



George H. Smith
(1949-2022)

ATHEISM
THE CASE AGAINST GOD
BY GEORGE H. SMITH

The Skeptic's Bookshelf



George H. Smith
(1949-2022)

*"Atheism, in its basic form, is not a belief: **it is the absence of belief.** An atheist is not primarily a person who believes that a god does not exist; rather, he does not believe in the existence of God."*

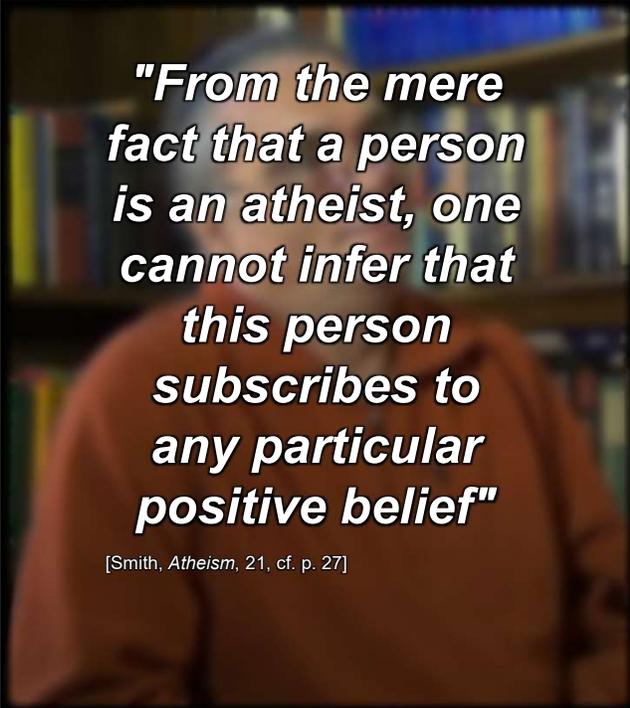
[George H. Smith, *Atheism: The Case Against God* (Buffalo: Prometheus, 1989), 7]



"From the mere fact that a person is an atheist, one cannot infer that this person subscribes to any particular positive belief"

George H. Smith
(1949-2022)

[George H. Smith, *Atheism: The Case Against God* (Buffalo: Prometheus, 1989), 21]

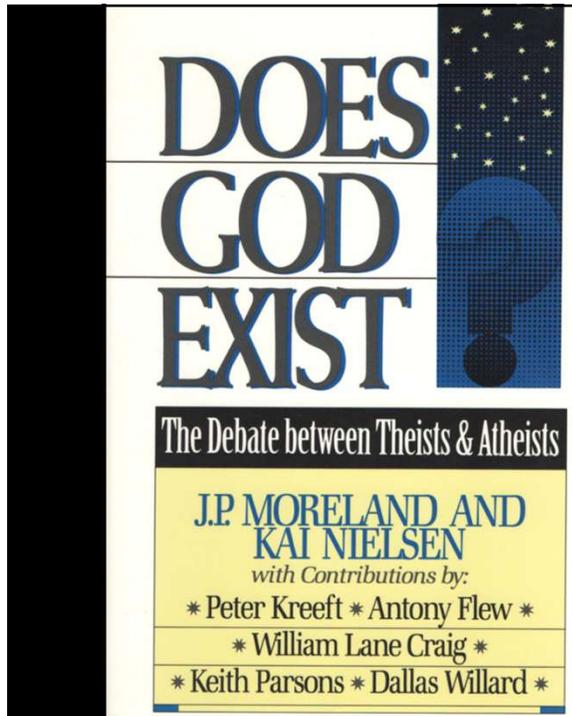


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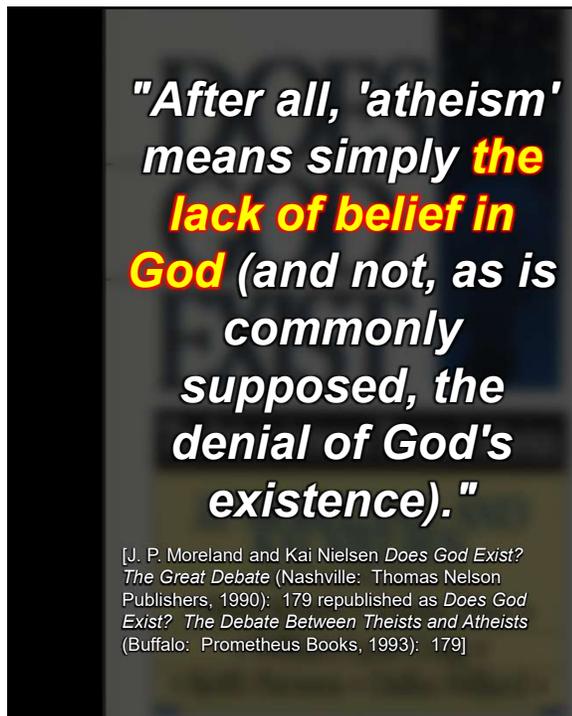
[Smith, *Atheism*, 21, cf. p. 27]

"If atheism is correct,

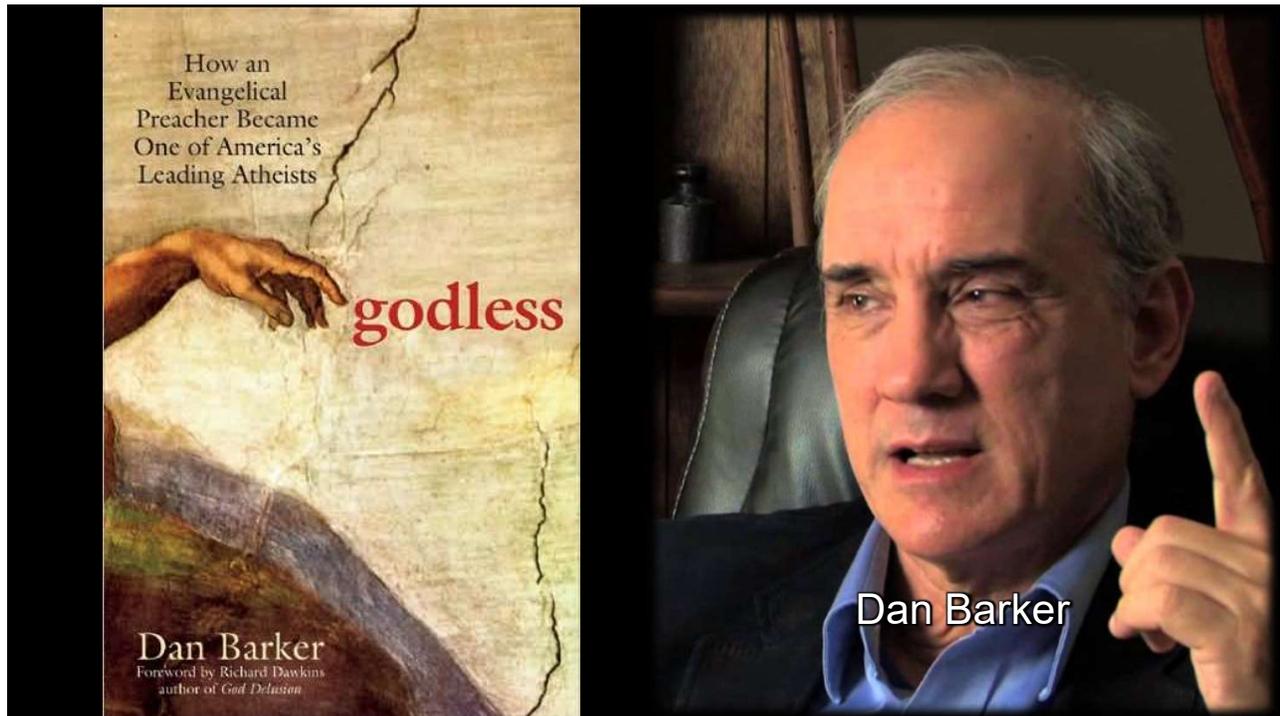
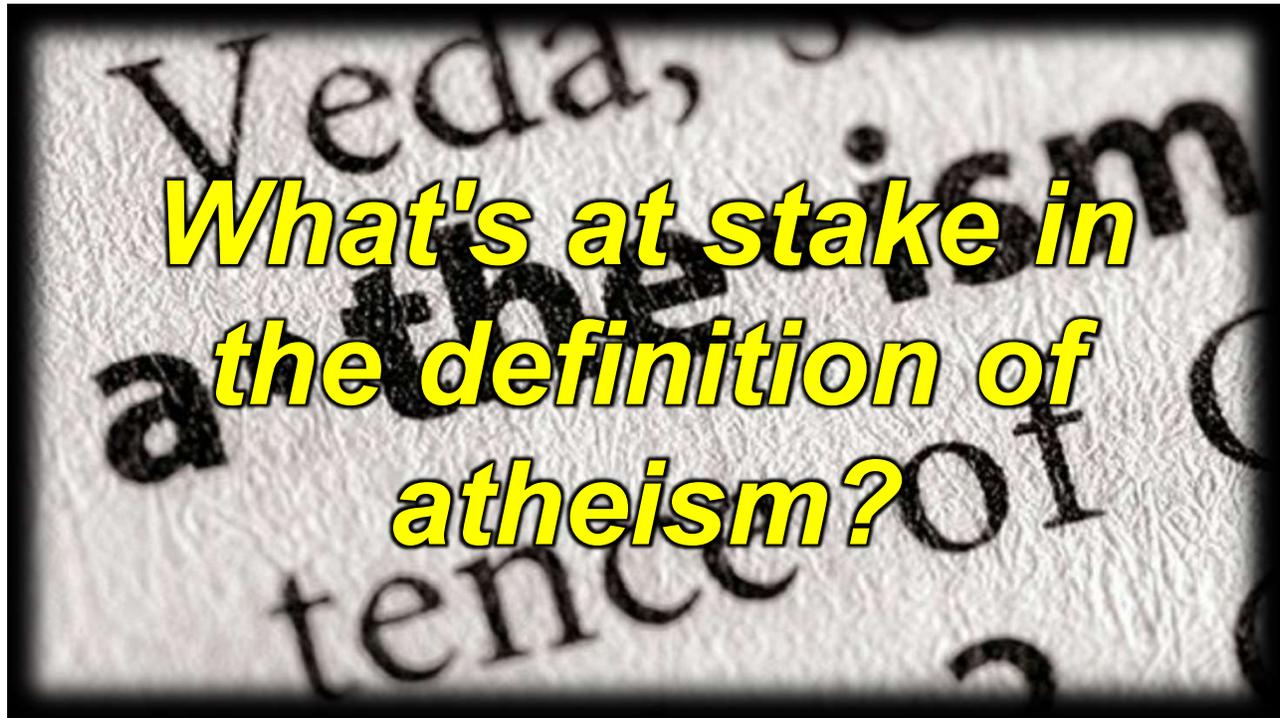
- *man is alone*
- *there is no god*
- *for knowledge, man must think for himself*
- *for success, man must work*
- *for happiness, man must strive to achieve it*
- *all of these are sole responsibility of man*

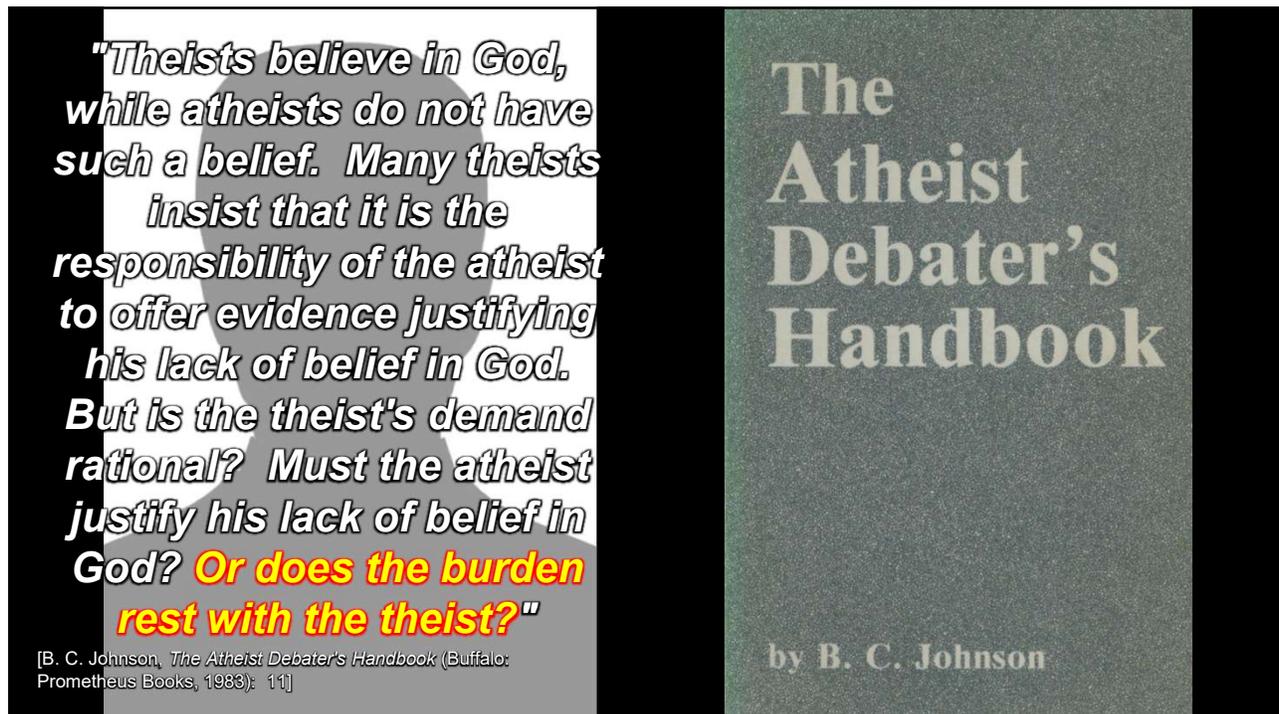
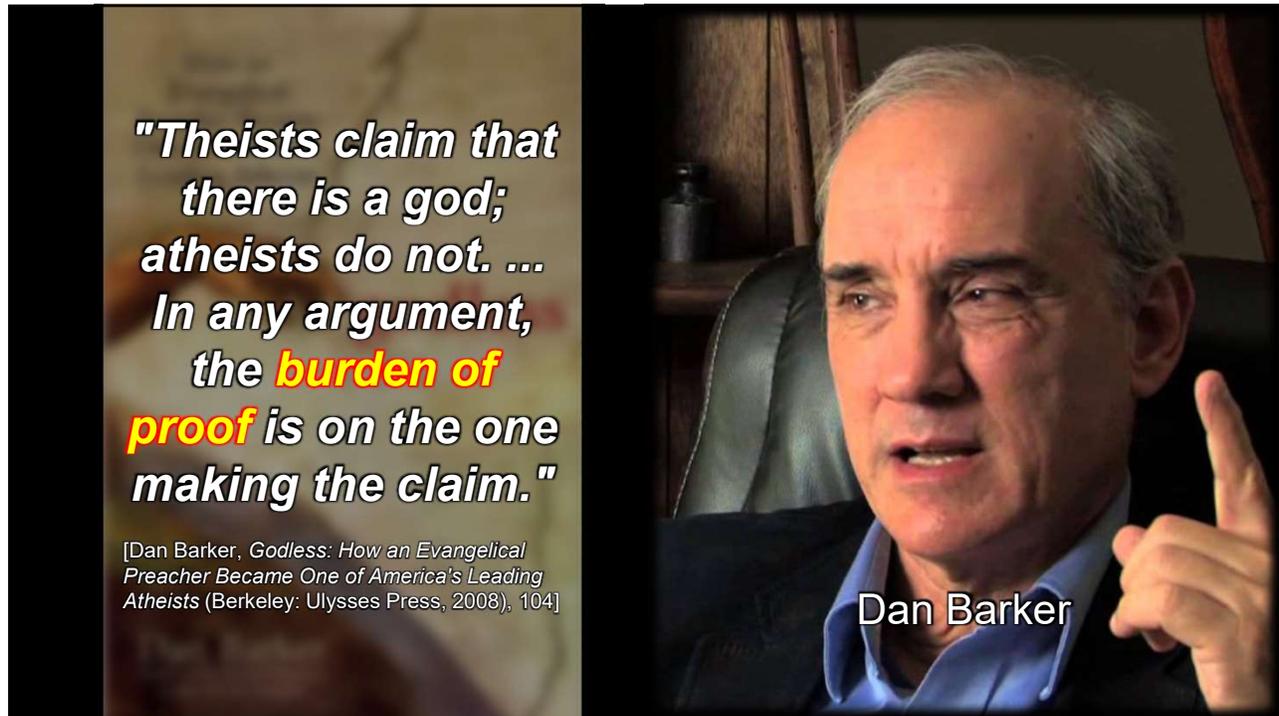


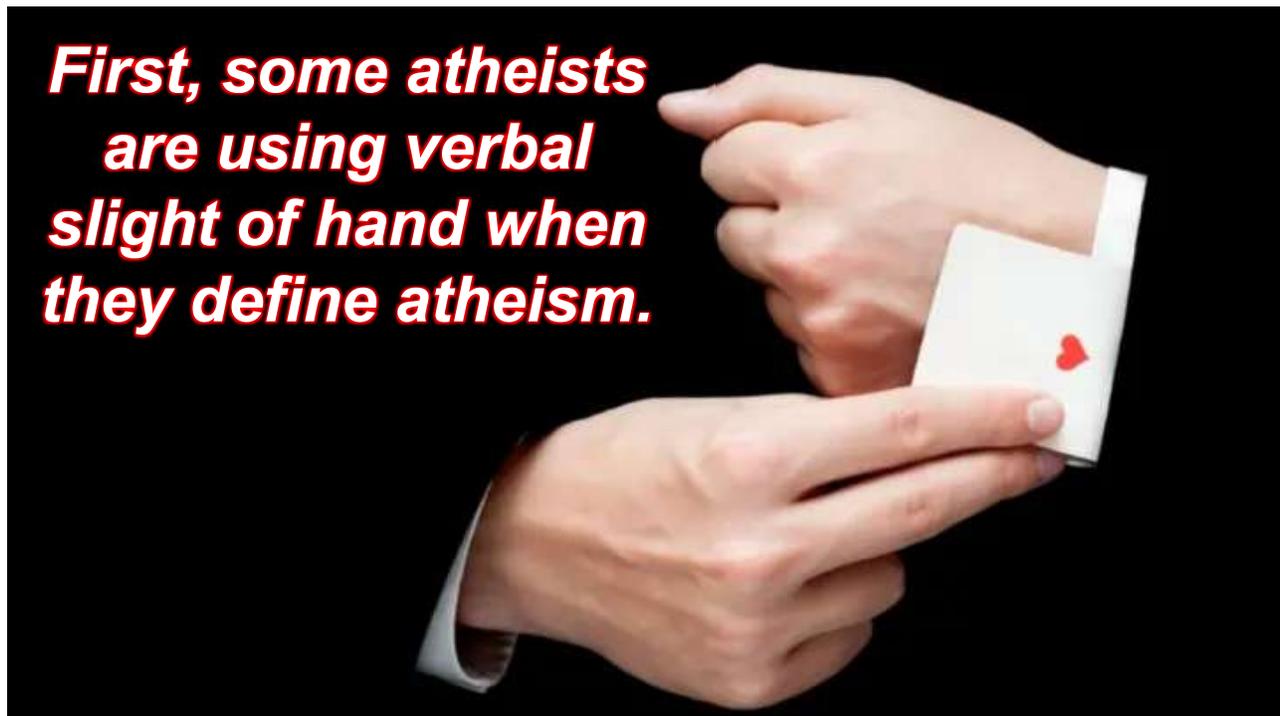
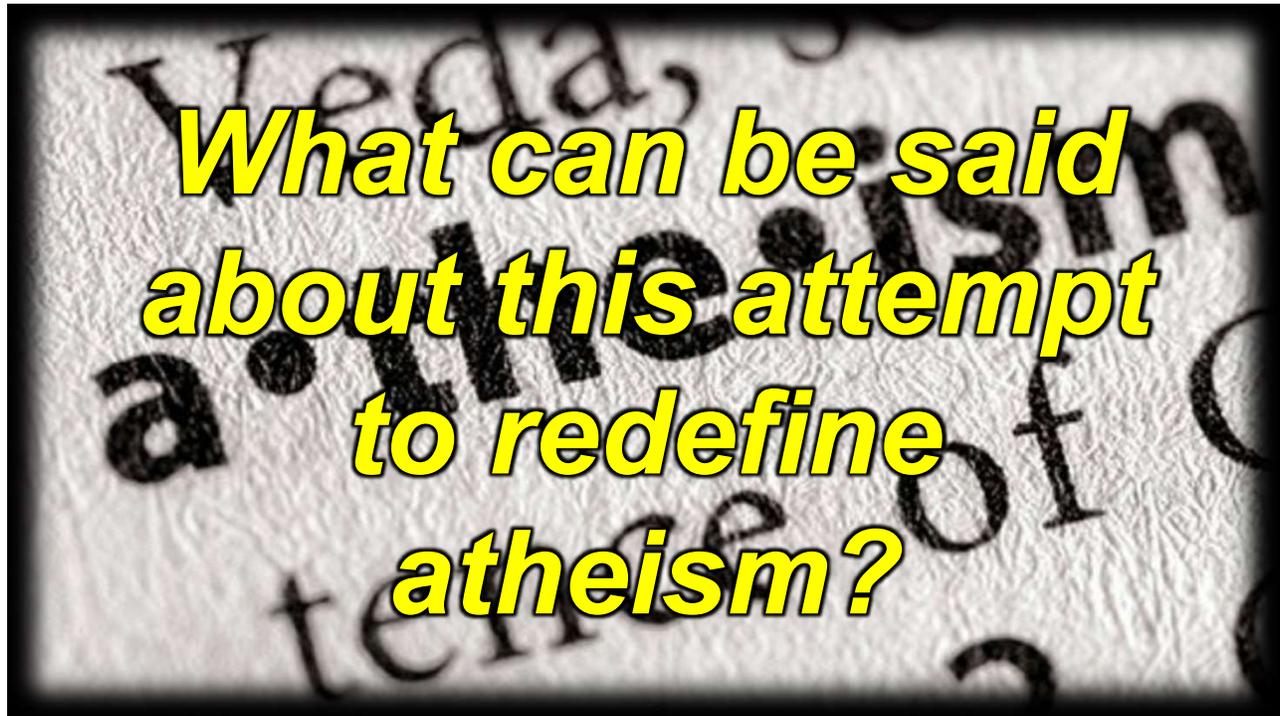
Keith Parsons



Keith Parsons









George H. Smith
(1949-2022)

ATHEISM

THE CASE AGAINST GOD

BY GEORGE H. SMITH

The Skeptic's Bookshelf



George H. Smith
(1949-2022)

"As used throughout this book, 'theism' signifies the belief in any god or number of gods. The prefix 'a' means 'without,' so the term 'a-theism' literally means 'without theism,' or without belief in a god or gods."

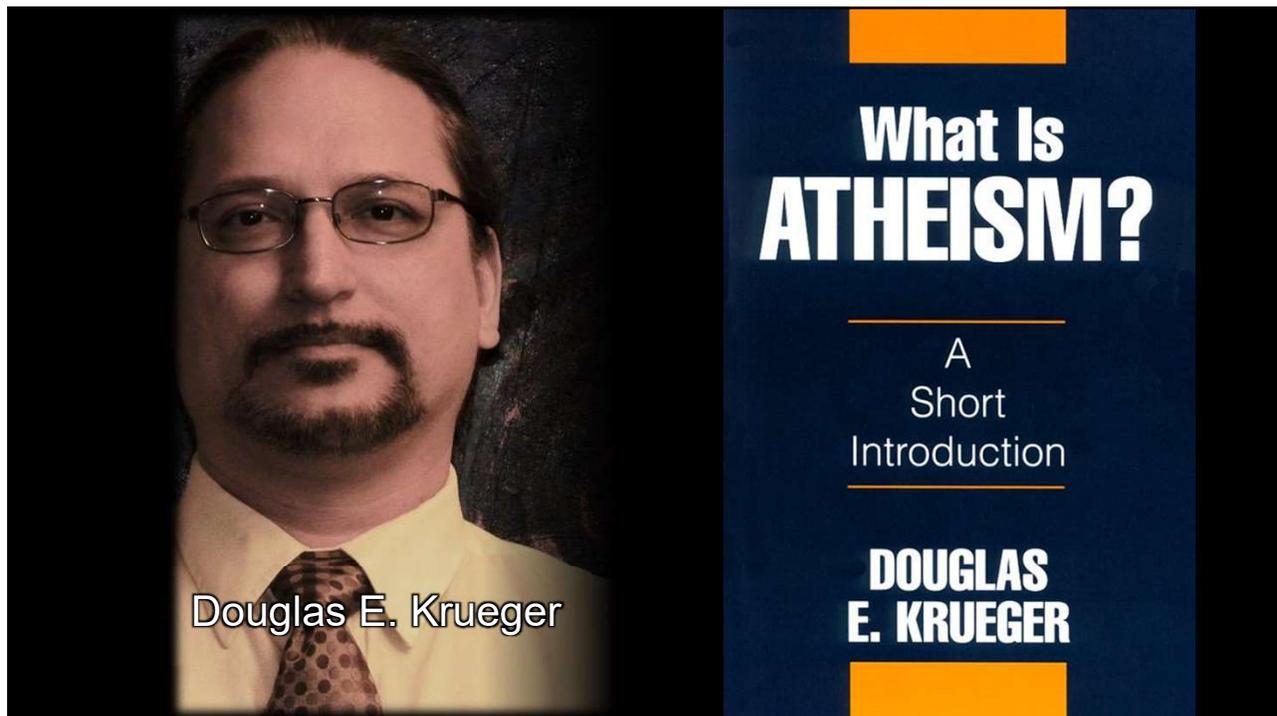
[George H. Smith, *Atheism: The Case Against God* (Buffalo: Prometheus, 1989), 7]

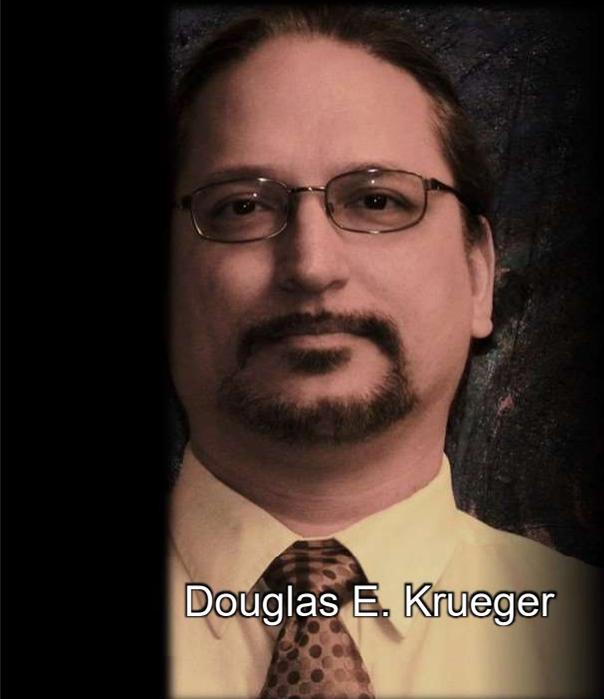
Granted that the suffix "ism" constitutes a belief system, Smith still illicitly has the negation "a" negating "belief" rather than negating "God."

Thus, rather than
"no belief in a God"
 it should be
"a belief in no God."

"As used throughout this book, 'theism' signifies the belief in any god or number of gods. The prefix 'a' means 'without,' so the term 'a-theism' literally means 'without theism,' or without belief in a god or gods."

[George H. Smith, *Atheism: The Case Against God* (Buffalo: Prometheus, 1989), 7]





Douglas E. Krueger

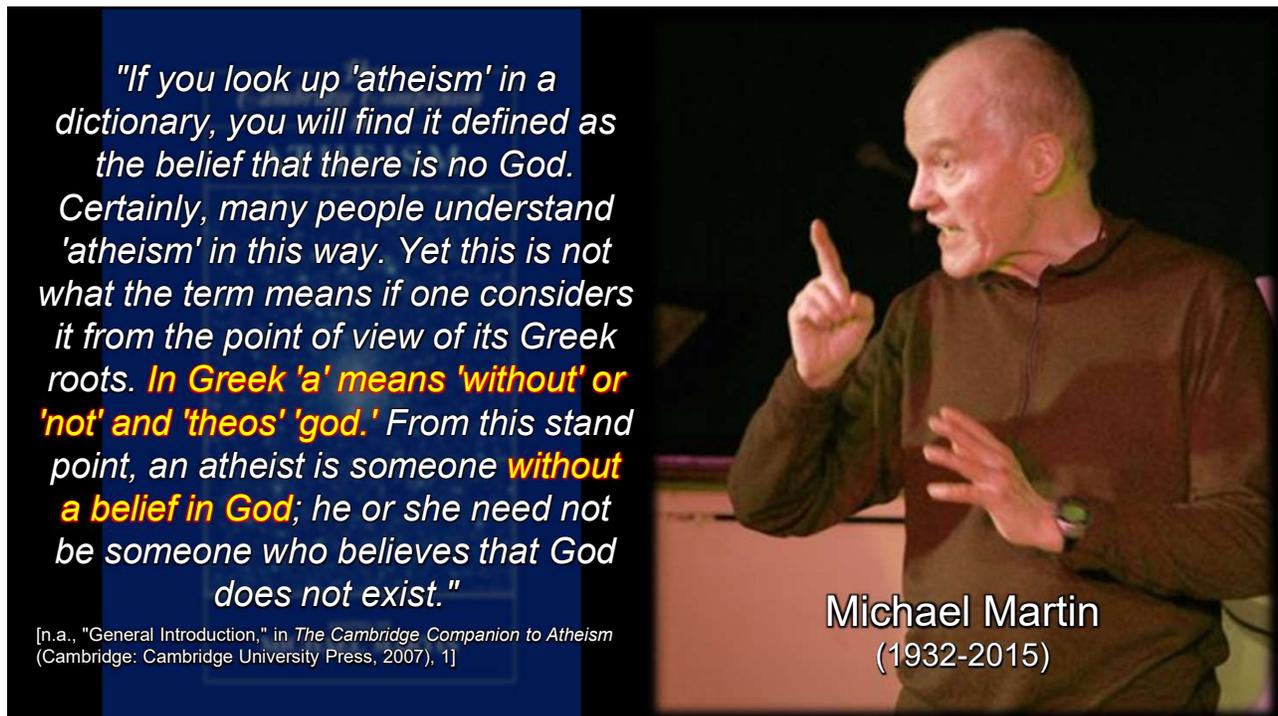
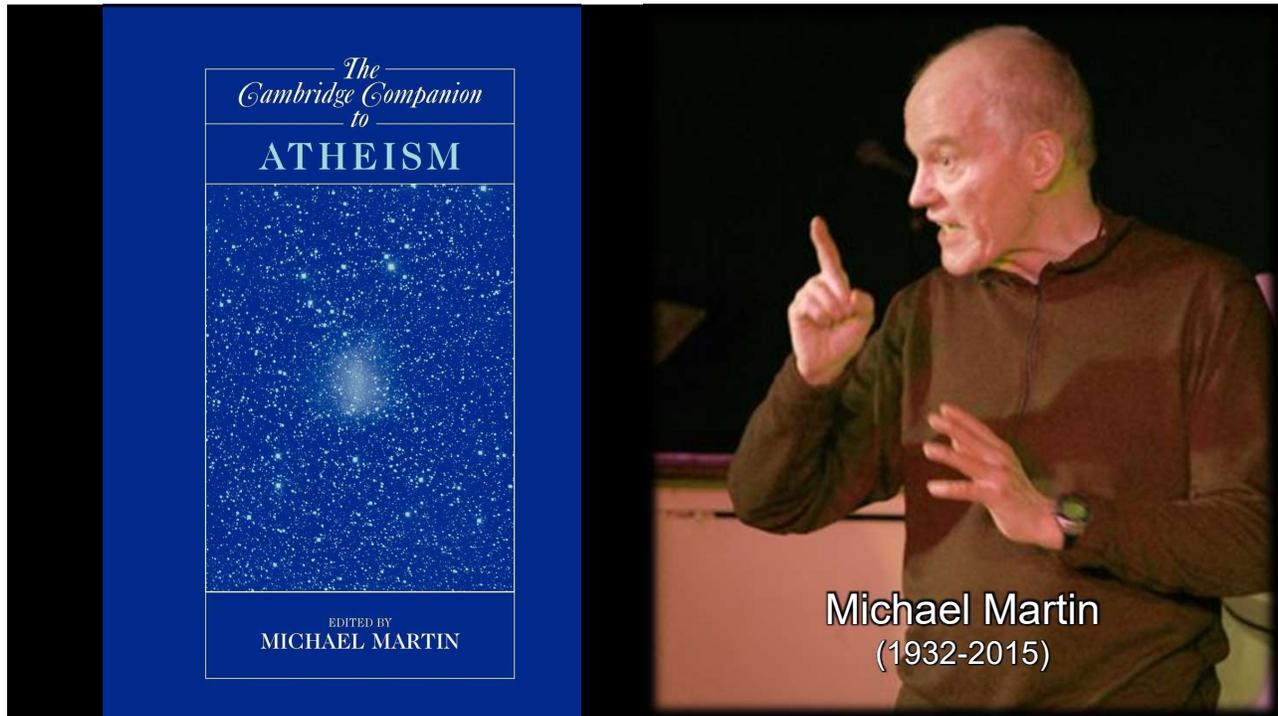
"The term 'atheism' is from the Greek atheos. The prefix 'a' means 'without,' and the Greek theos means 'god,' so atheism means simply 'being without god.' Theism asserts that there is a god, so atheism is the view which does not assert that there is a god."

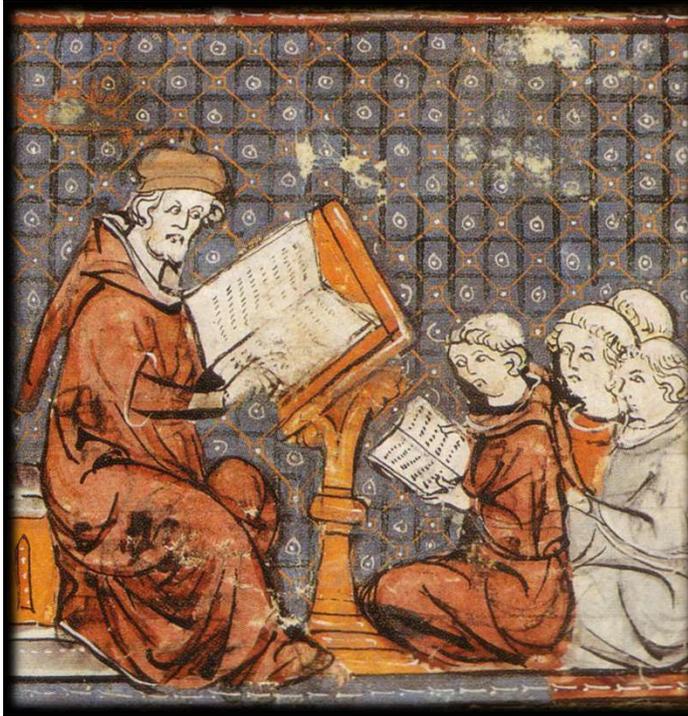
[Douglas E. Krueger, *What is Atheism? A Short Introduction* (Amherst: Prometheus, 1998), 17]

Notice that Krueger moves from the alpha negating 'god' (which would mean 'without god' or 'not-god') to the alpha negating the assertion (which means the absence of the assertion of god instead of the absence of god).

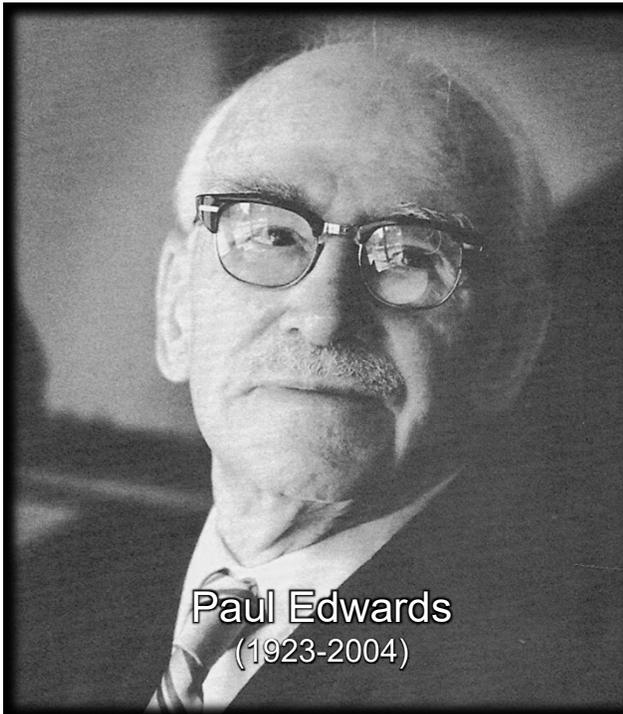
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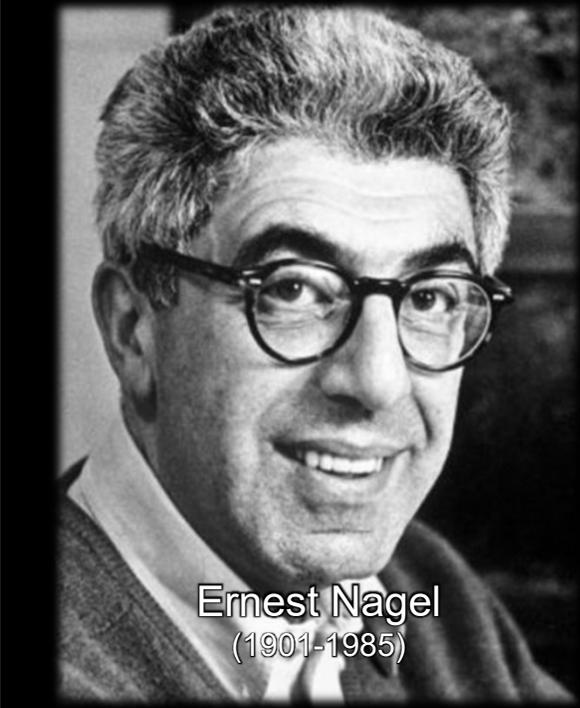
Second, this definition conflicts with the standard academic definition of atheism.



Paul Edwards
(1923-2004)

"According to the most usual definition, an 'atheist' is a person who maintains that there is no God, that is, that the sentence 'God exists' expresses a false proposition."

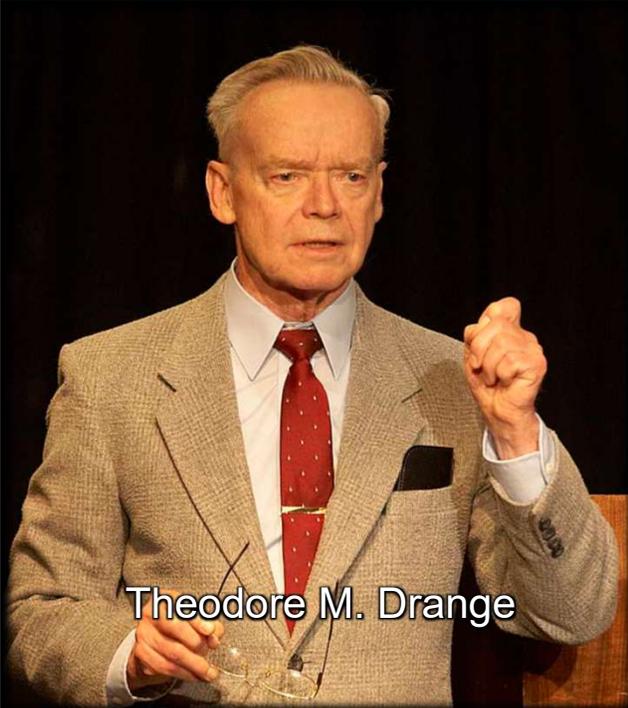
[Paul Edwards ed. in chief, *The Encyclopedia of Philosophy* (New York: Macmillan Publishing Co., Inc., 1967): s.v. "Atheism," p. 175.]



Ernest Nagel
(1901-1985)

"[A]theism is not to be identified with sheer unbelief.... A child who has received no religious instruction ... is not an atheist—for he is not denying any theistic claims."

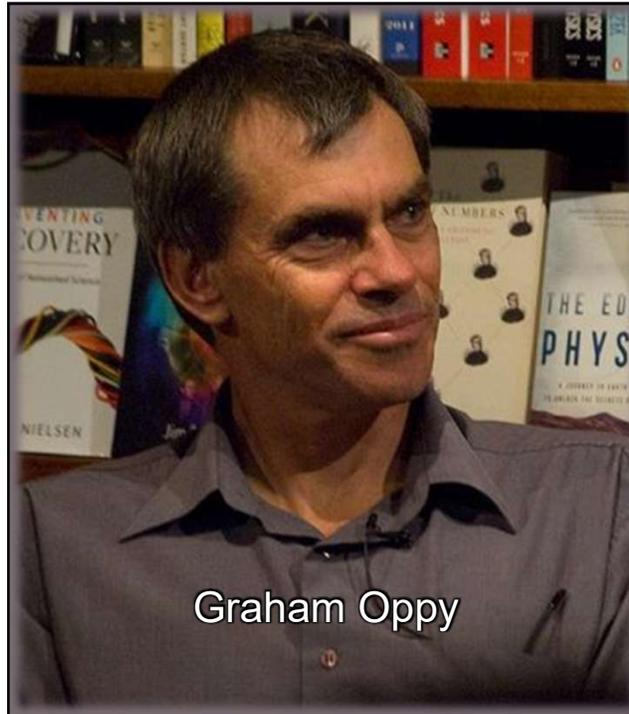
[Ernest Nagel, "Philosophical Concepts of Atheism" in *Critiques of God: Making the Case Against Belief in God*, Peter A. Angeles, ed. pp. 4-5]



Theodore M. Drange

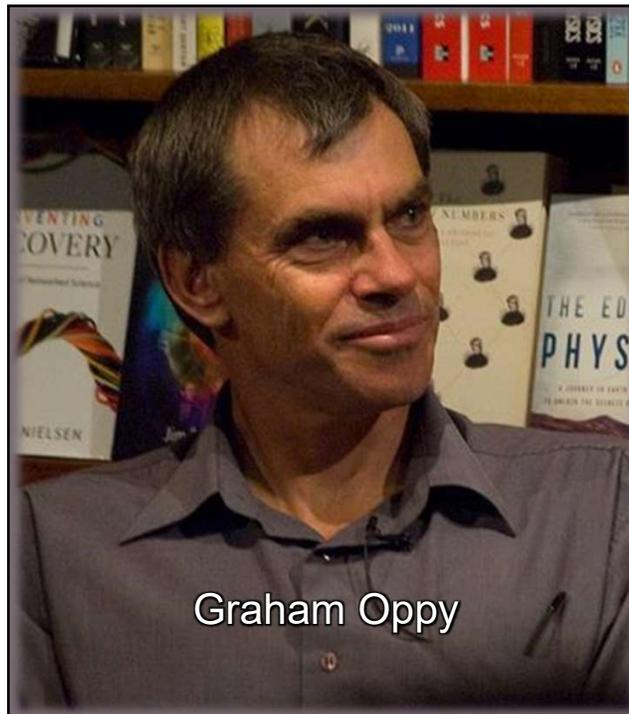
"Is the proposition that God exists true or false? You are a theist if and only if you say that the proposition is true or probably true, you are an atheist if and only if you say that it is false or probably false, and you are an agnostic if and only if you understand what the proposition is, but resist giving either answer, and support your resistance by saying, 'The evidence is insufficient' (or words to that effect)."

[Theodore M. Drange "Atheism, Agnosticism, Noncognitivism," from https://infidels.org/library/modern/theodore_drange/definition.html, accessed 01/15/19]



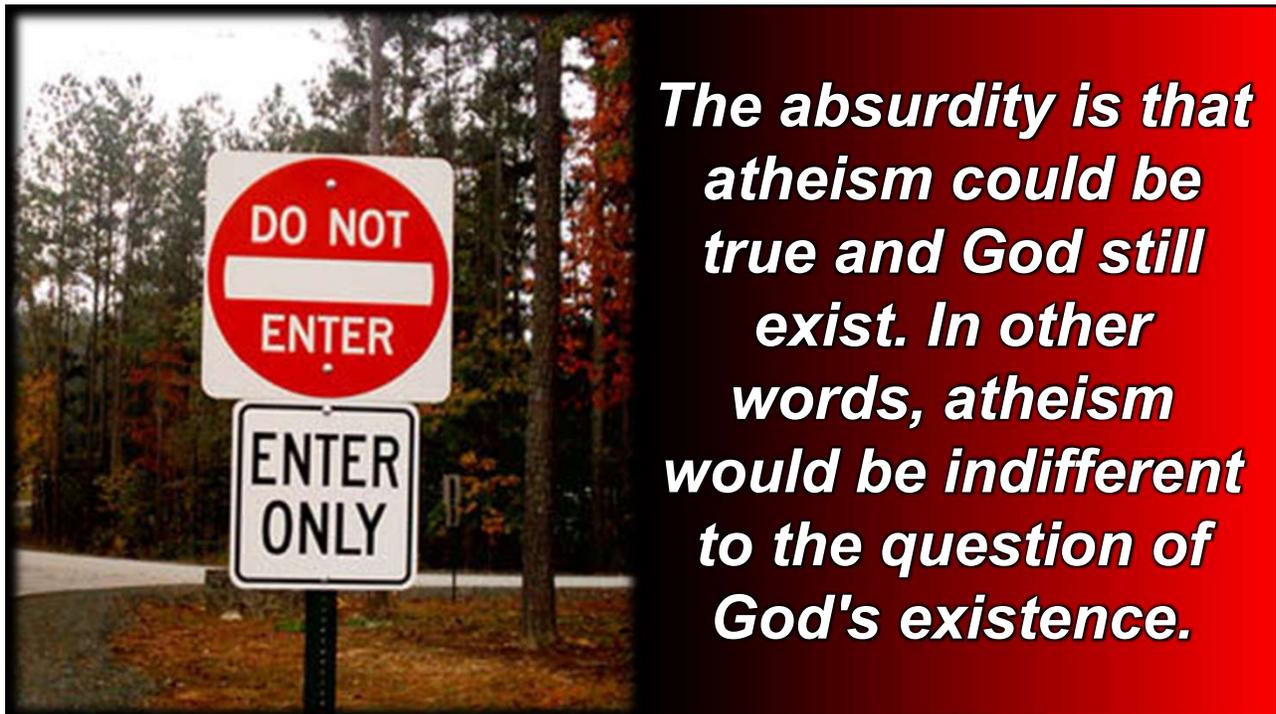
"Properly, we should define theism as the view that there's at least one god and atheism as the view that there are no gods, and monotheism then as the view that there is exactly one God and we call that one God with a capital 'G'. Atheists then are people who believe that there are no gods and particular in our context, they believe that God doesn't exist.

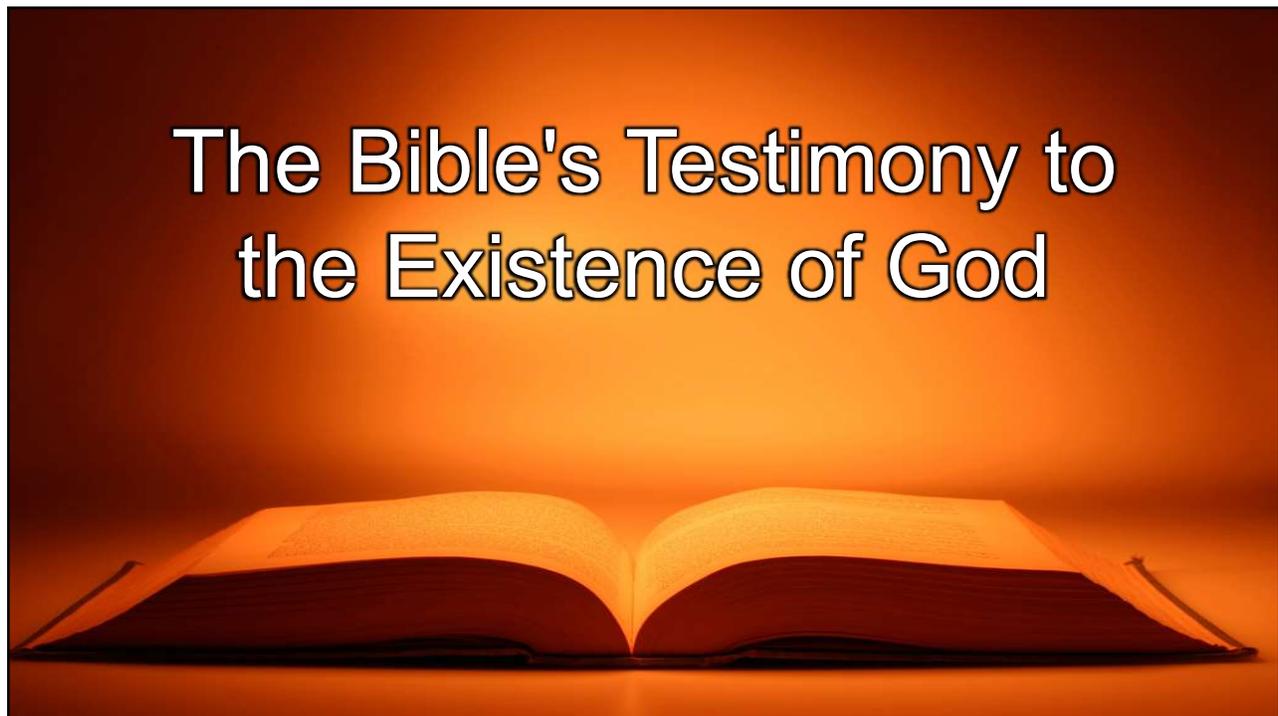
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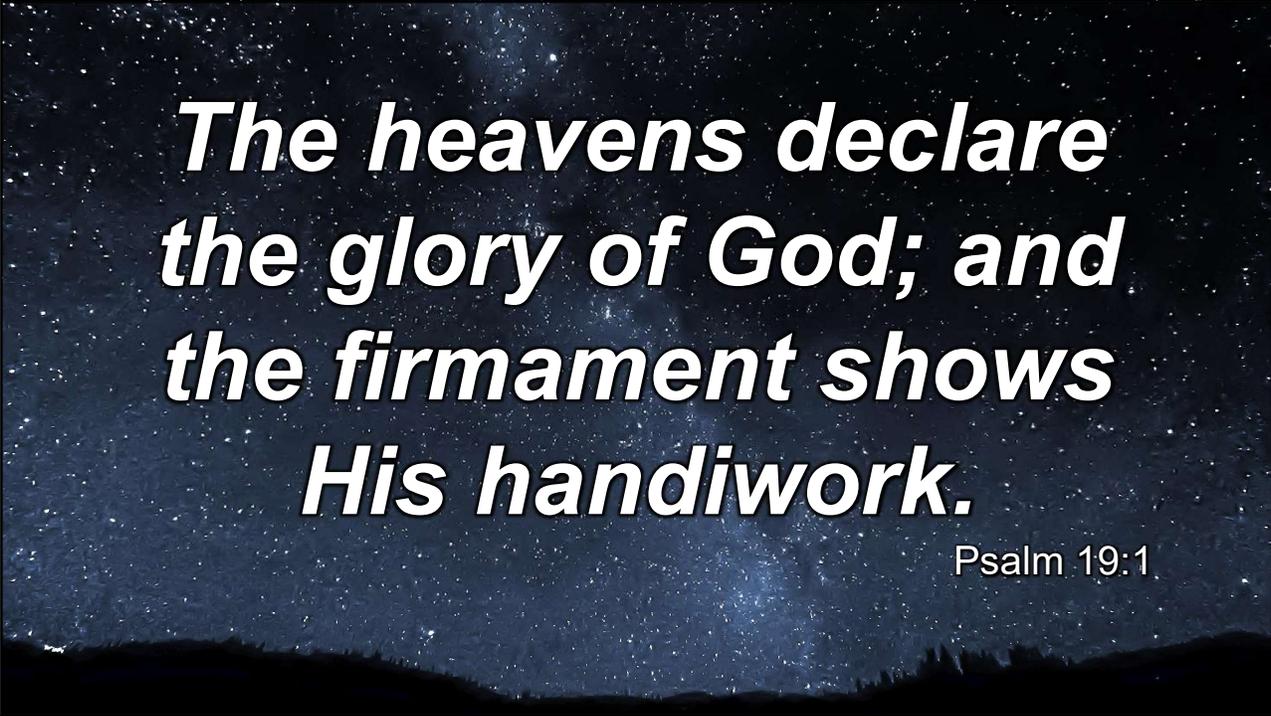


"Other people like to say that atheism is just lacking the belief that God exists which lumps together ... the class of agnostics with the class of atheists; if you define it that way, which I don't like."

[Graham Oppy vs. Ben Arbour, "The Ontological Argument" on *Capturing Christianity*, You Tube video <https://www.youtube.com/watch?v=udxfuPgq4TY>, @1:05:20, accessed 06/13/22]

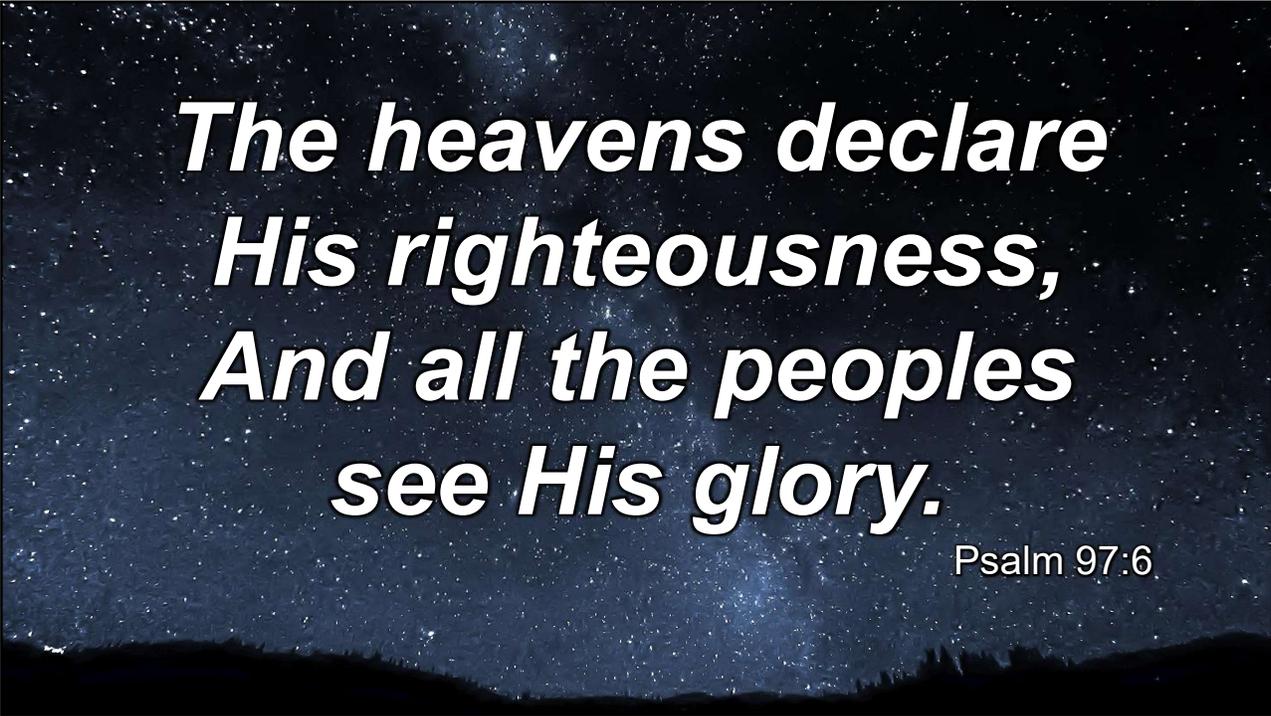






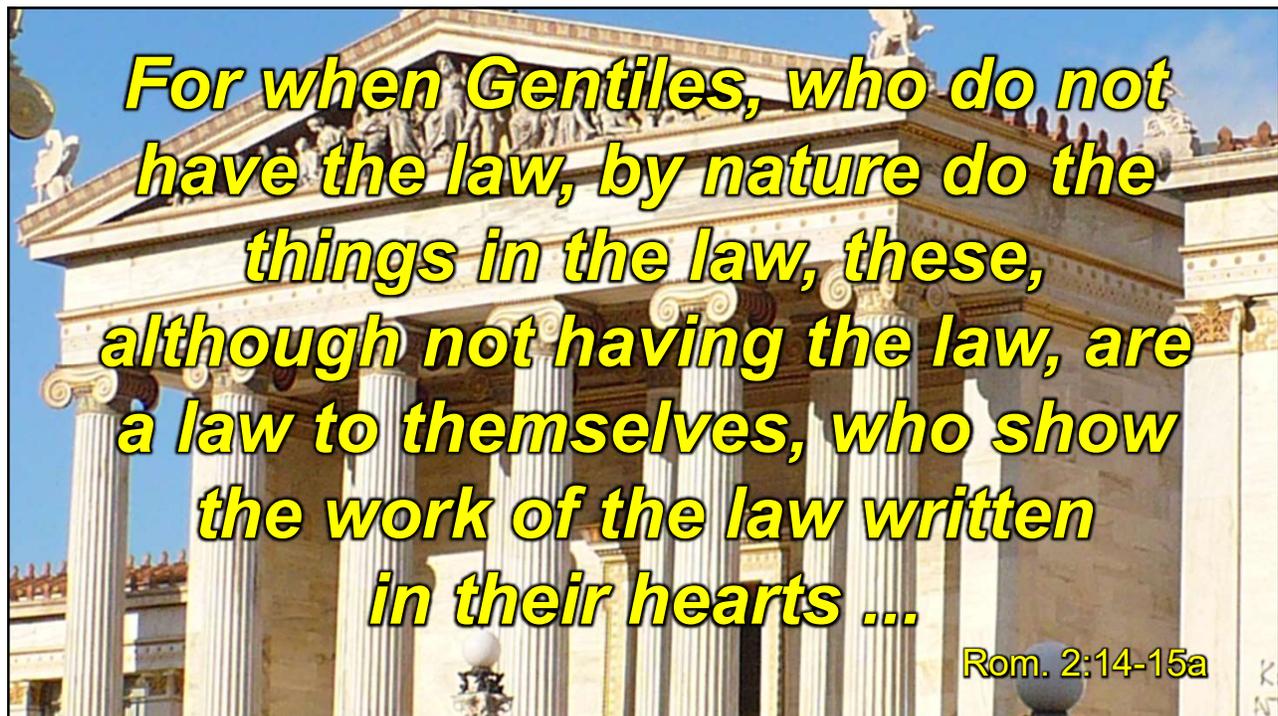
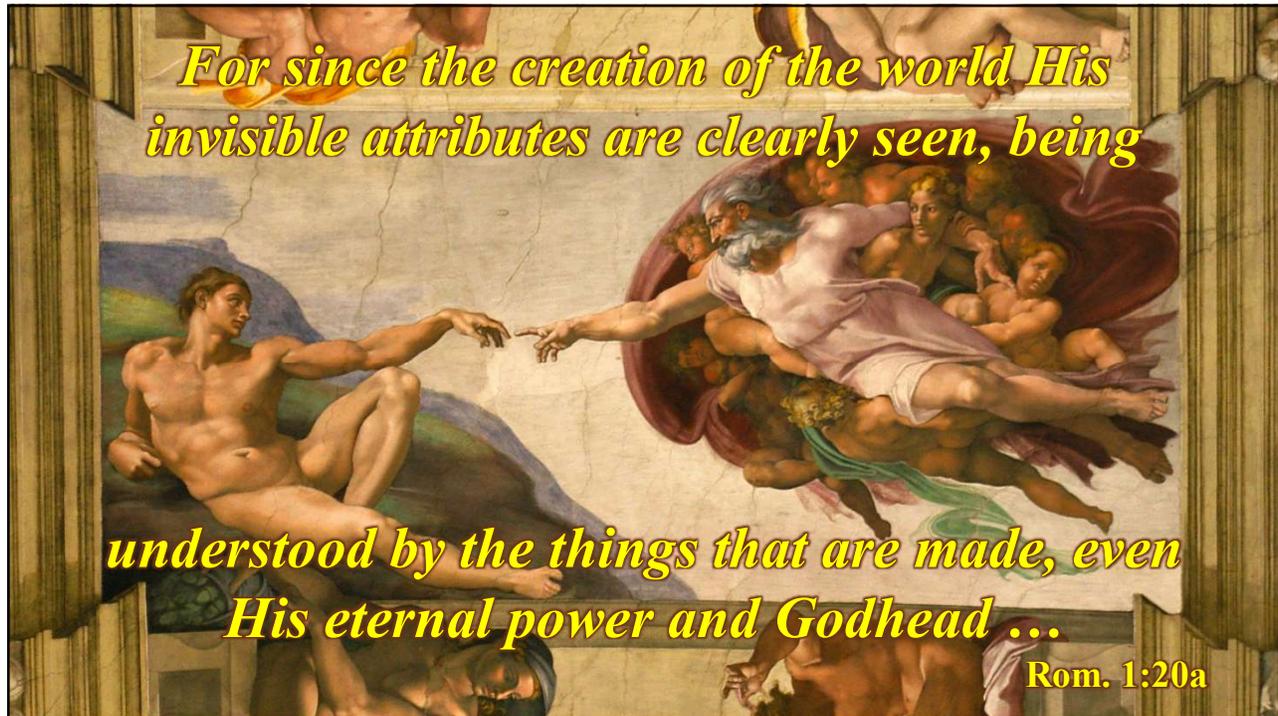
***The heavens declare
the glory of God; and
the firmament shows
His handiwork.***

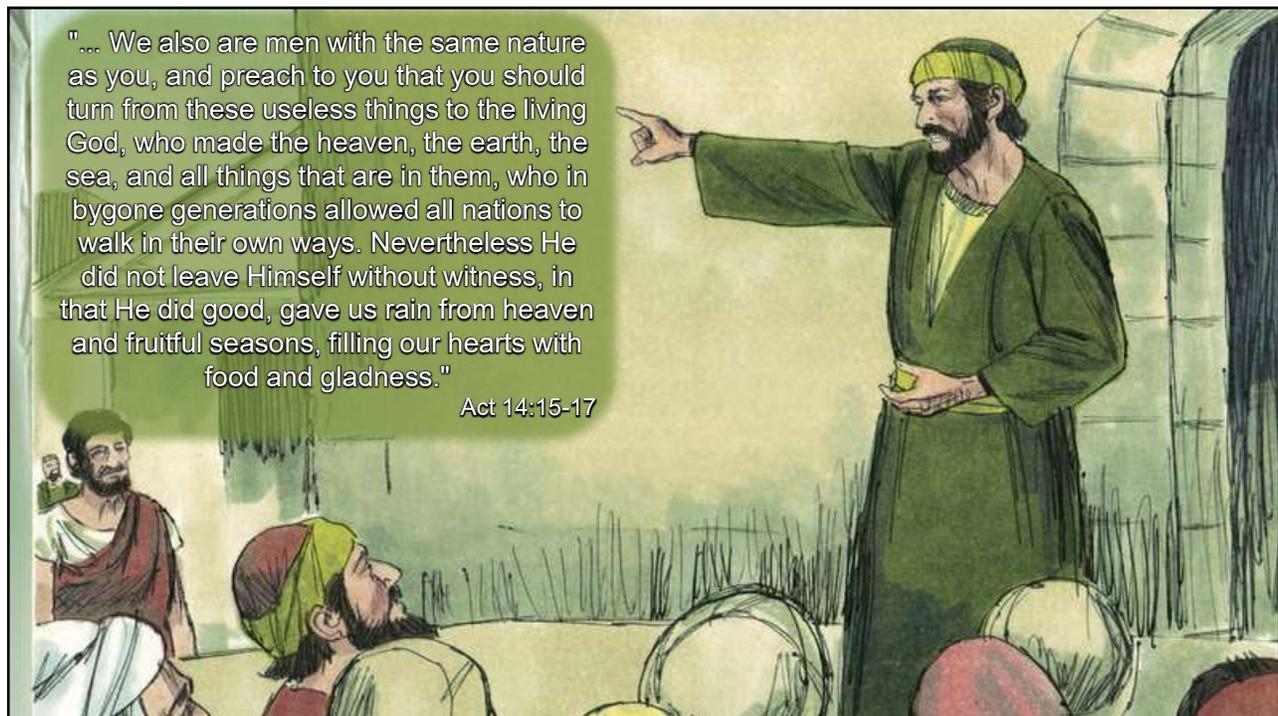
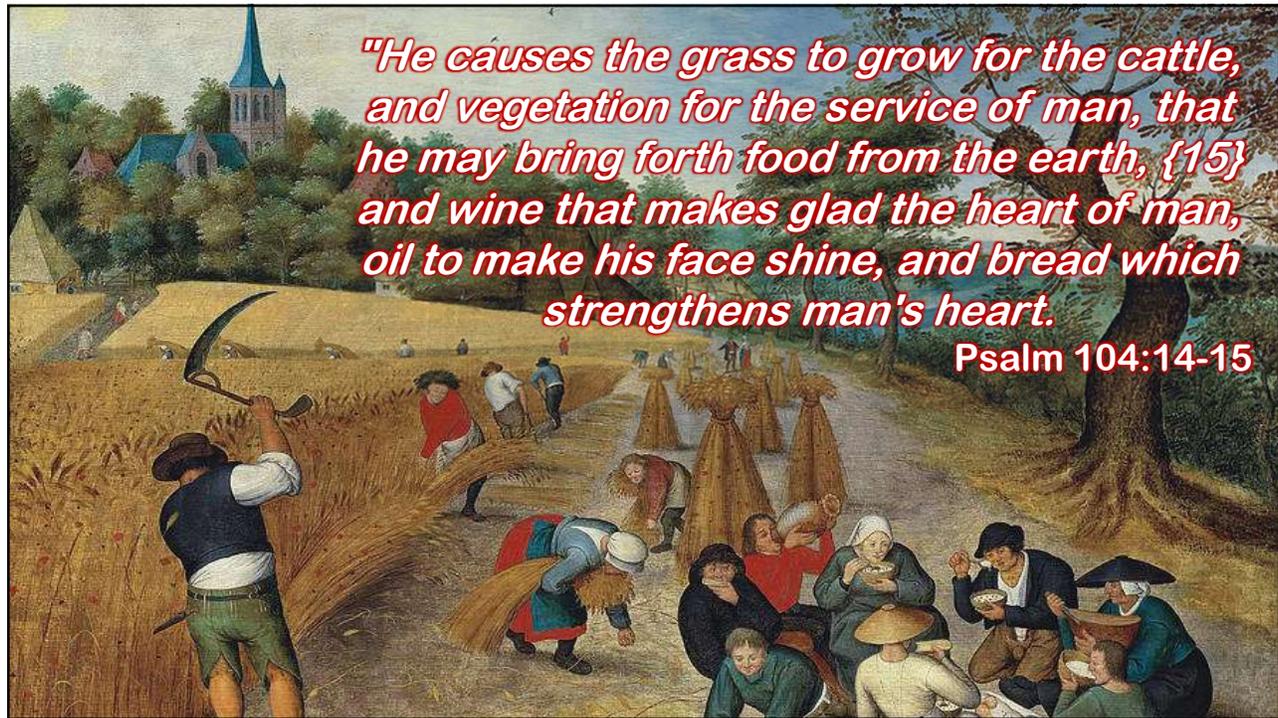
Psalm 19:1

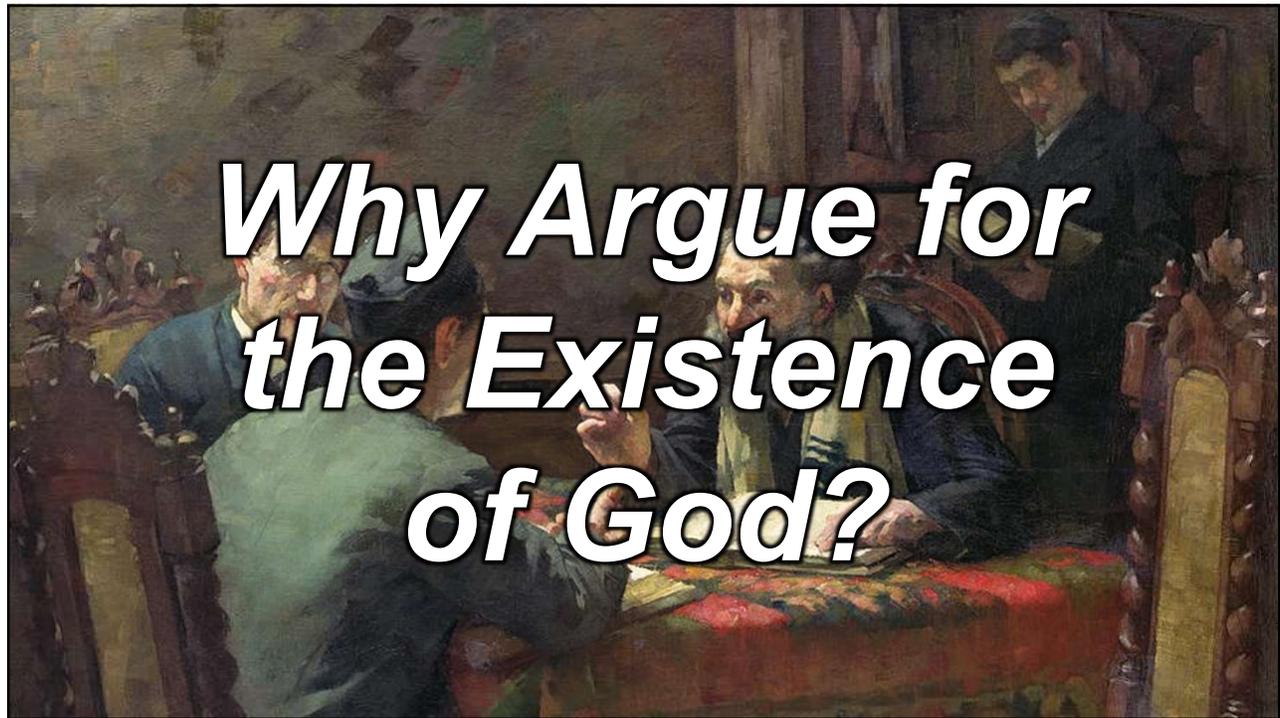


***The heavens declare
His righteousness,
And all the peoples
see His glory.***

Psalm 97:6





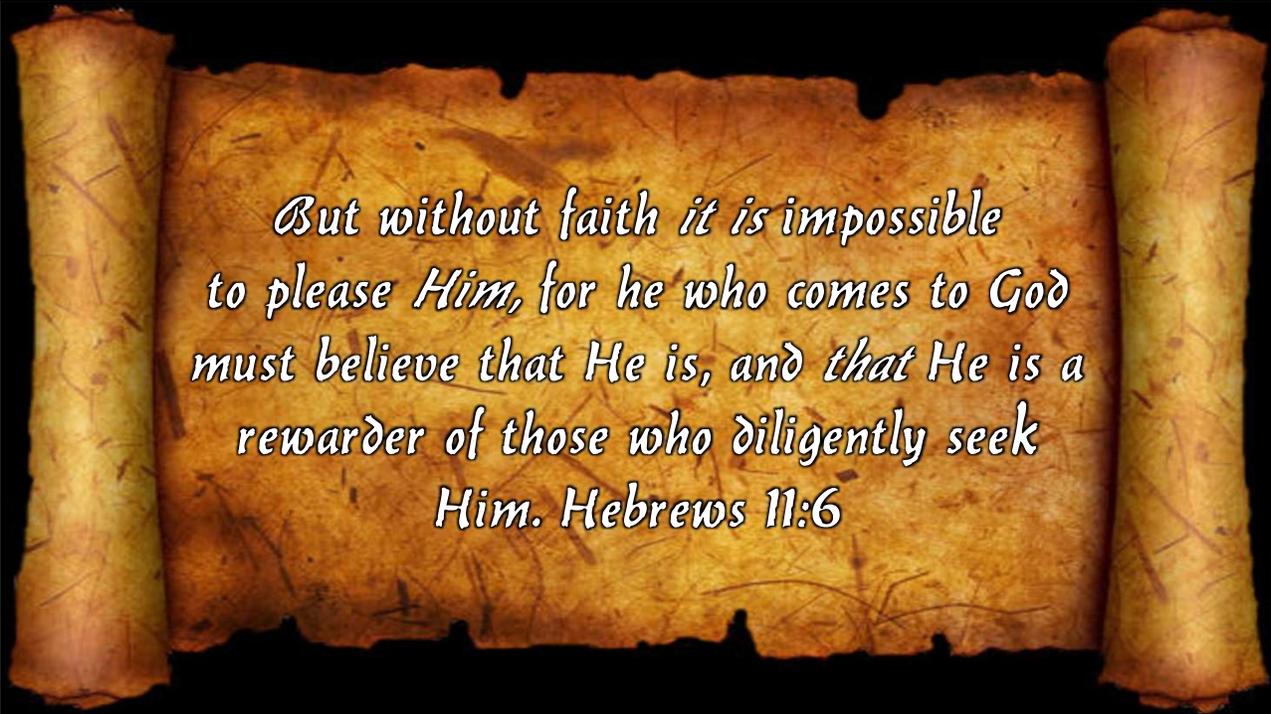


∞ Belief in God and Eternal Life ∞

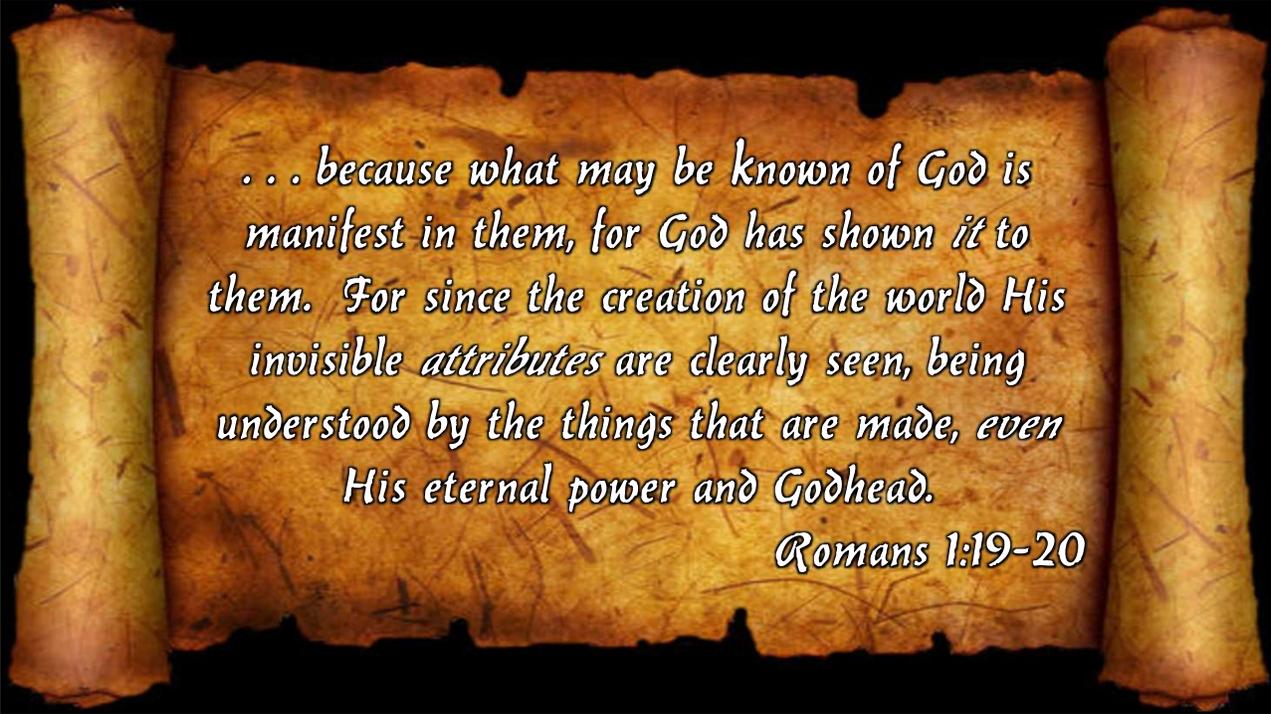
You can't argue someone into faith in Christ.

Belief in God is a necessary but not sufficient condition for salvation.

One can be lost and still believe in God's existence, but one cannot get saved without believing in God's existence.

A scroll of aged parchment with a dark, irregular border. The text is written in a white, serif font with a slight shadow effect. The scroll is unrolled in the center, showing the texture of the parchment and the binding on the sides.

*But without faith it is impossible
to please Him, for he who comes to God
must believe that He is, and that He is a
rewarder of those who diligently seek
Him. Hebrews 11:6*

A scroll of aged parchment with a dark, irregular border. The text is written in a white, serif font with a slight shadow effect. The scroll is unrolled in the center, showing the texture of the parchment and the binding on the sides.

*. . . because what may be known of God is
manifest in them, for God has shown it to
them. 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.*

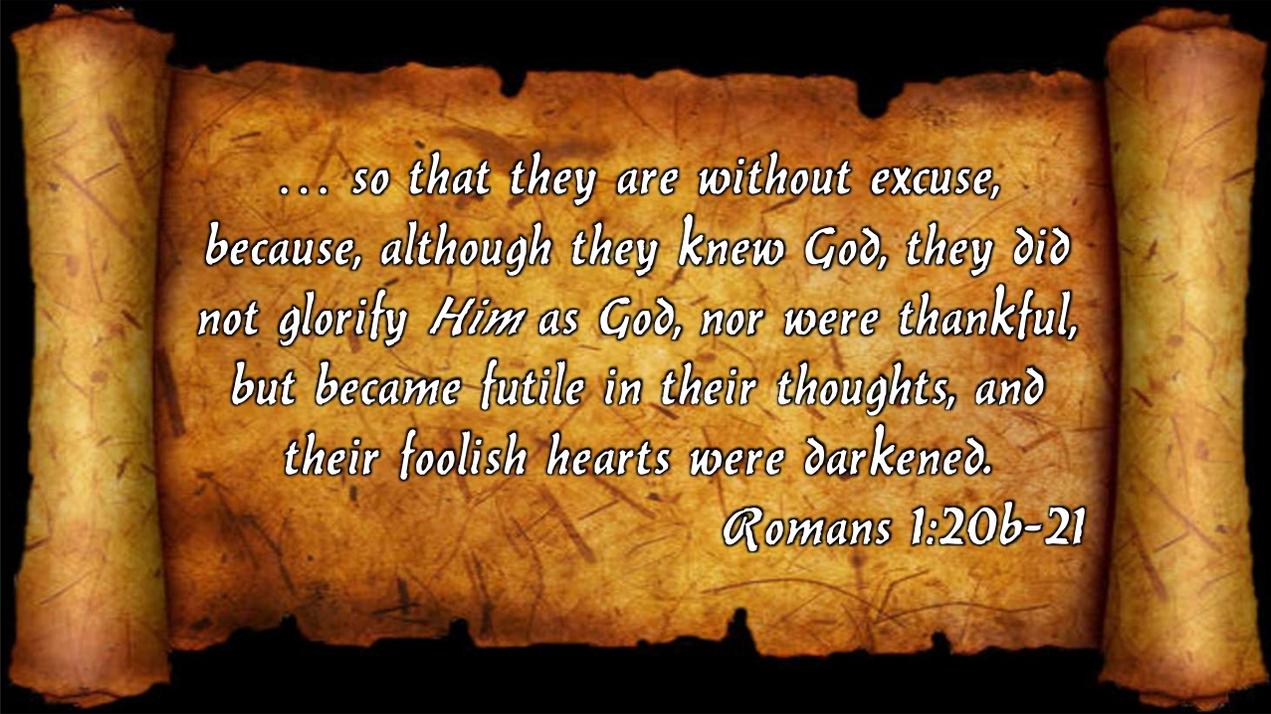
Romans 1:19-20

☞ Belief in God and the Evidence ☞

God may use the evidence to bring some to believe that God exists.

Evidence can expose the fact that, for some, the problem of unbelief is not a matter of their intellect.

Evidence can help strengthen the faith of those who already believe.

A scroll of aged parchment with a dark, textured surface, unrolled to reveal text. The scroll is set against a black background. The text is written in a white, serif font with a slight shadow effect.

*... so that they are without excuse,
because, although they knew God, they did
not glorify Him as God, nor were thankful,
but became futile in their thoughts, and
their foolish hearts were darkened.*

Romans 1:20b-21

*Now a certain Jew named Apollos, born at Alexandria, an eloquent man and mighty in the Scriptures, came to Ephesus. ... And when he desired to cross to Achaia, the brethren wrote, exhorting the disciples to receive him; and when he arrived, **he greatly helped those who had believed through grace**; for he vigorously refuted the Jews publicly, showing from the Scriptures that Jesus is the Christ.*

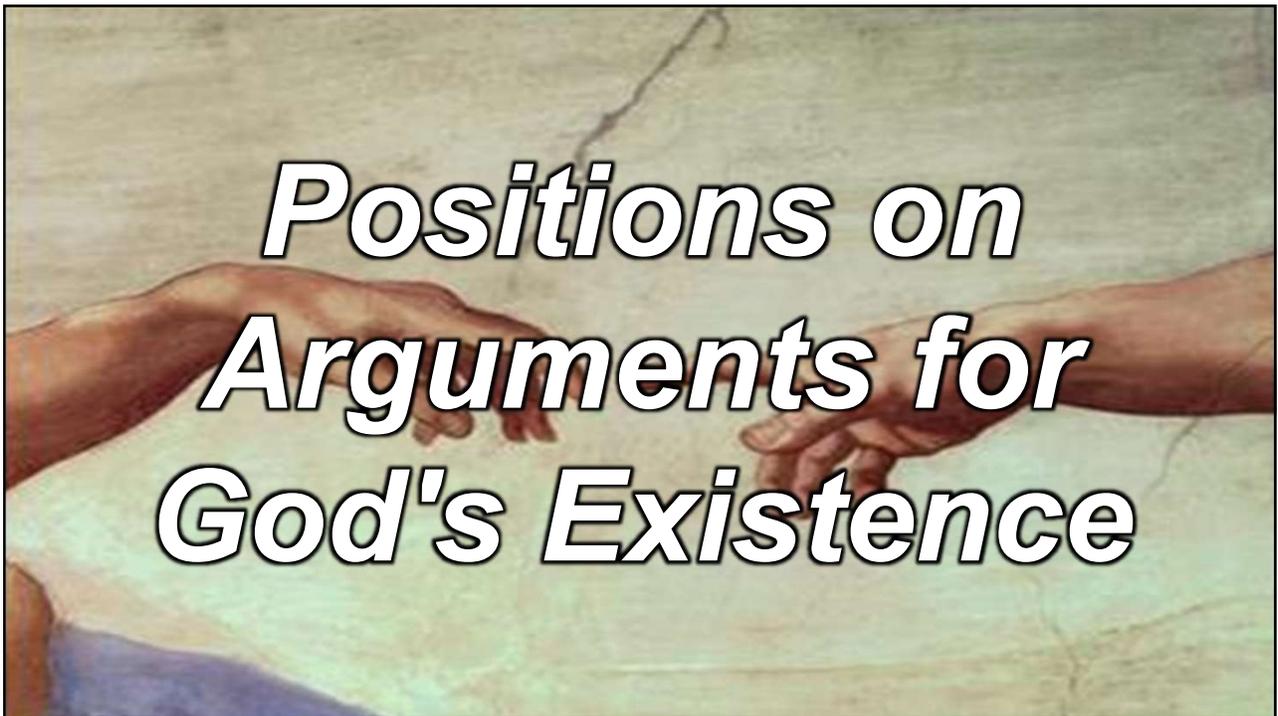
Acts 18:24, 27-28



∞ **Belief in God and the World** ∞

Belief in God is virtually universal geographically (all over the world) and chronologically (throughout all time).

This does not prove that God exists, but it may be an indicator that God exists.

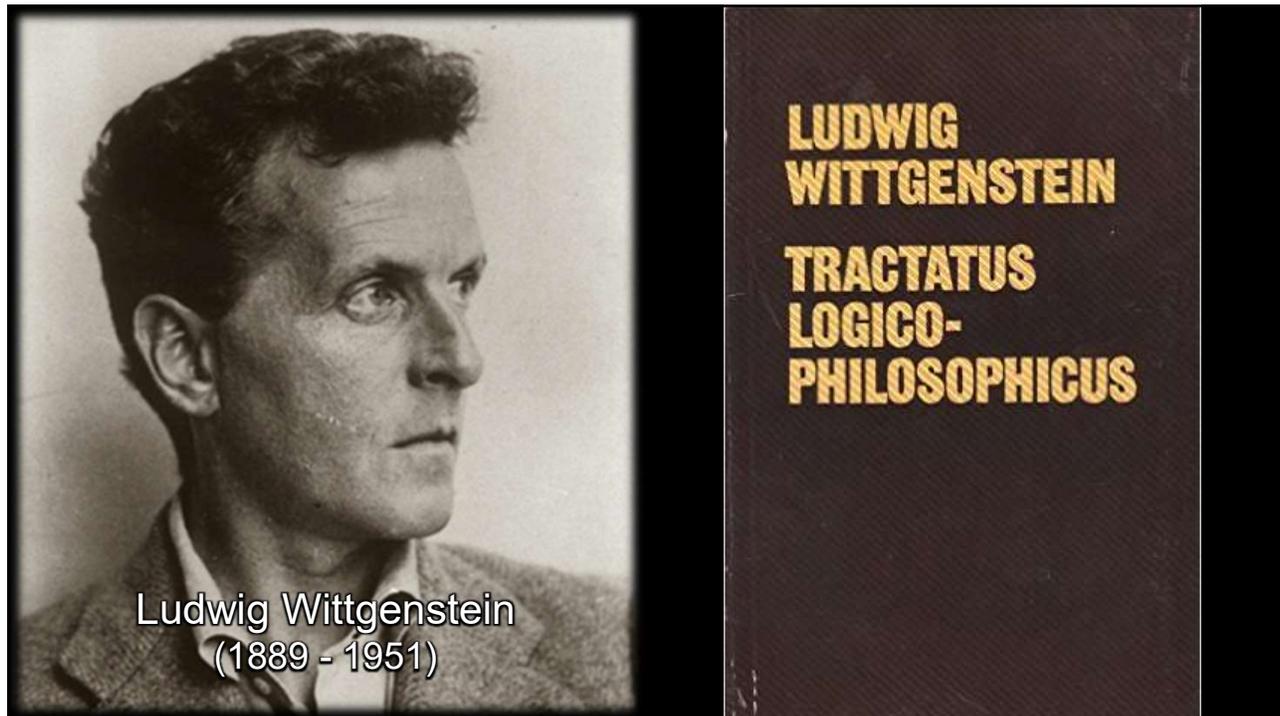
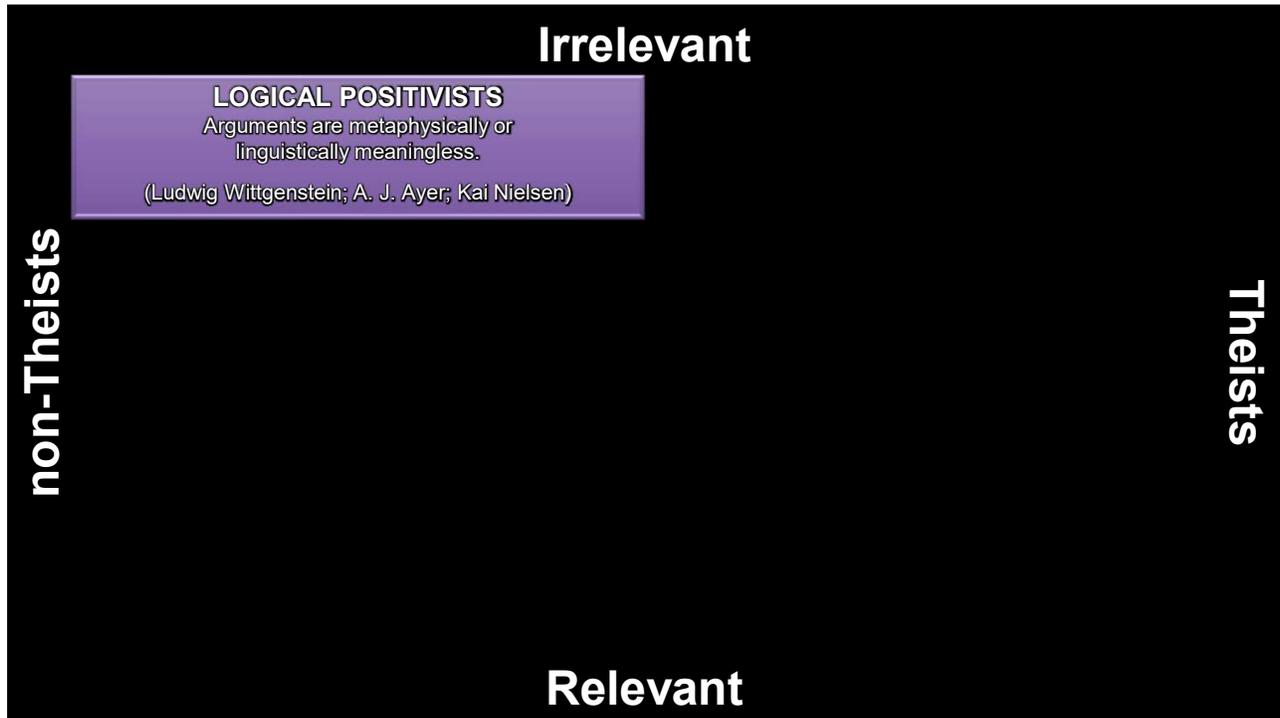


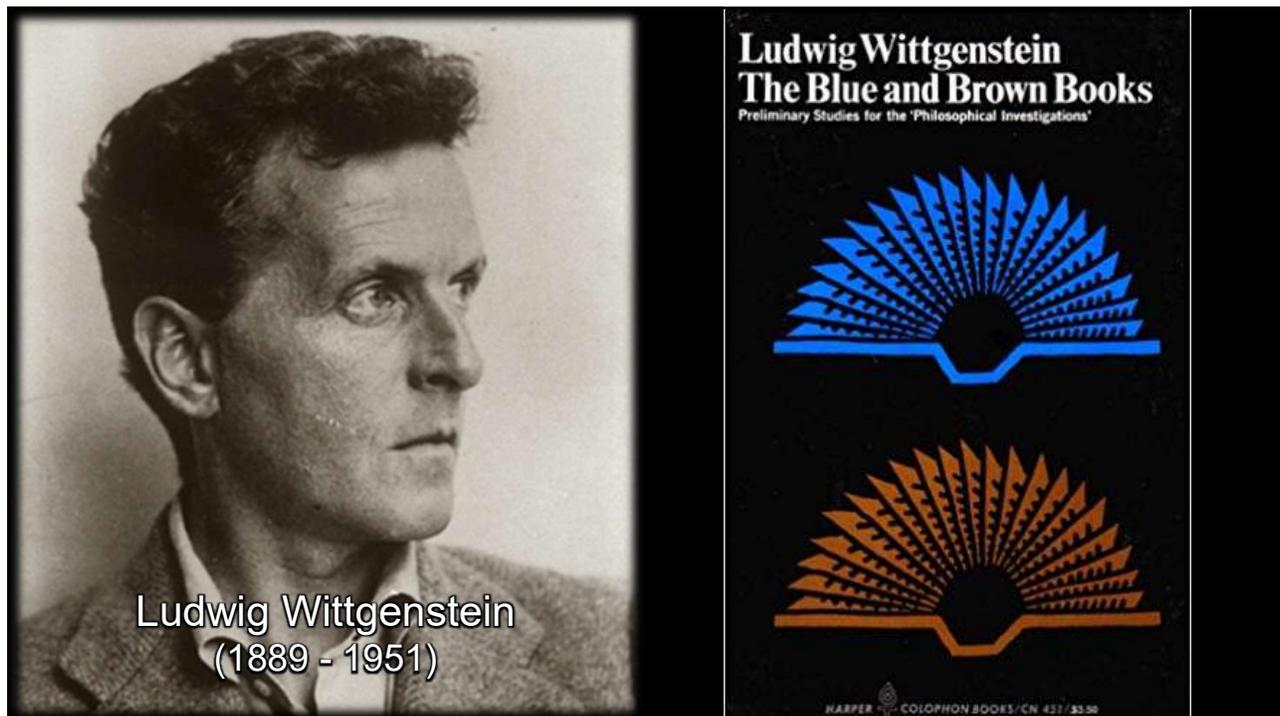
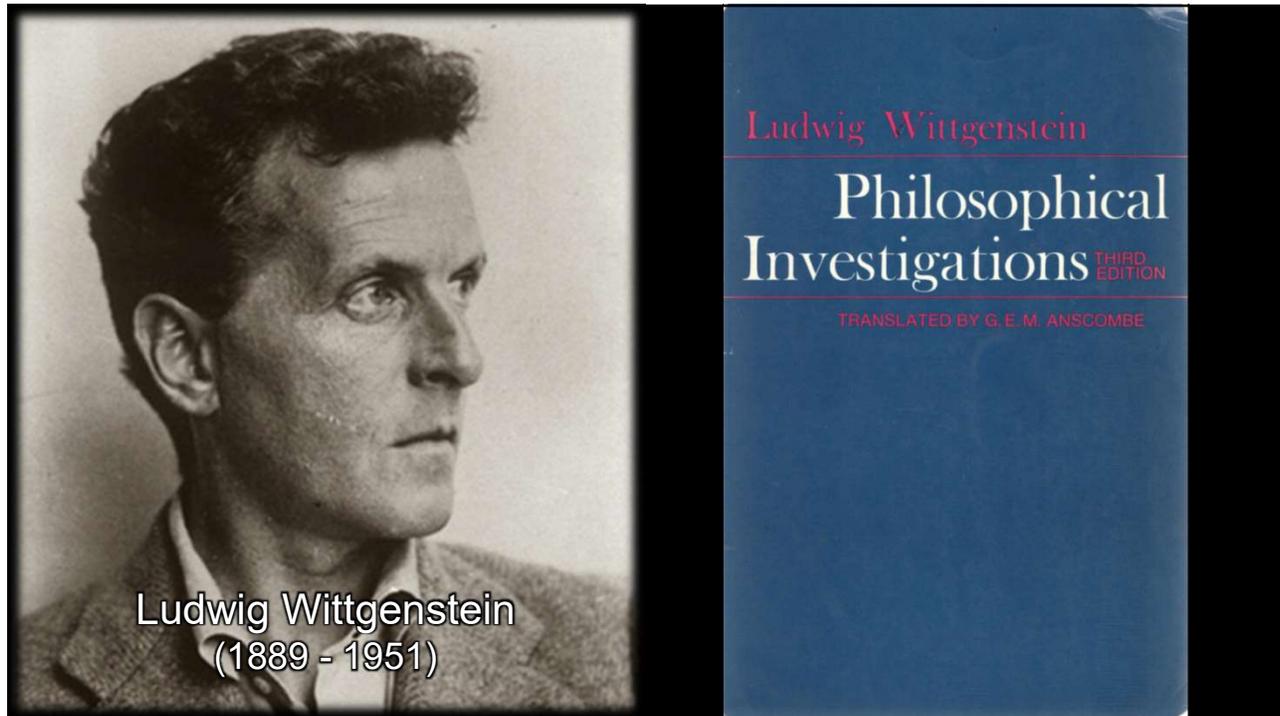
Perhaps it is not surprising that there are different views on whether or how there is any relevance for the arguments for the existence of God.

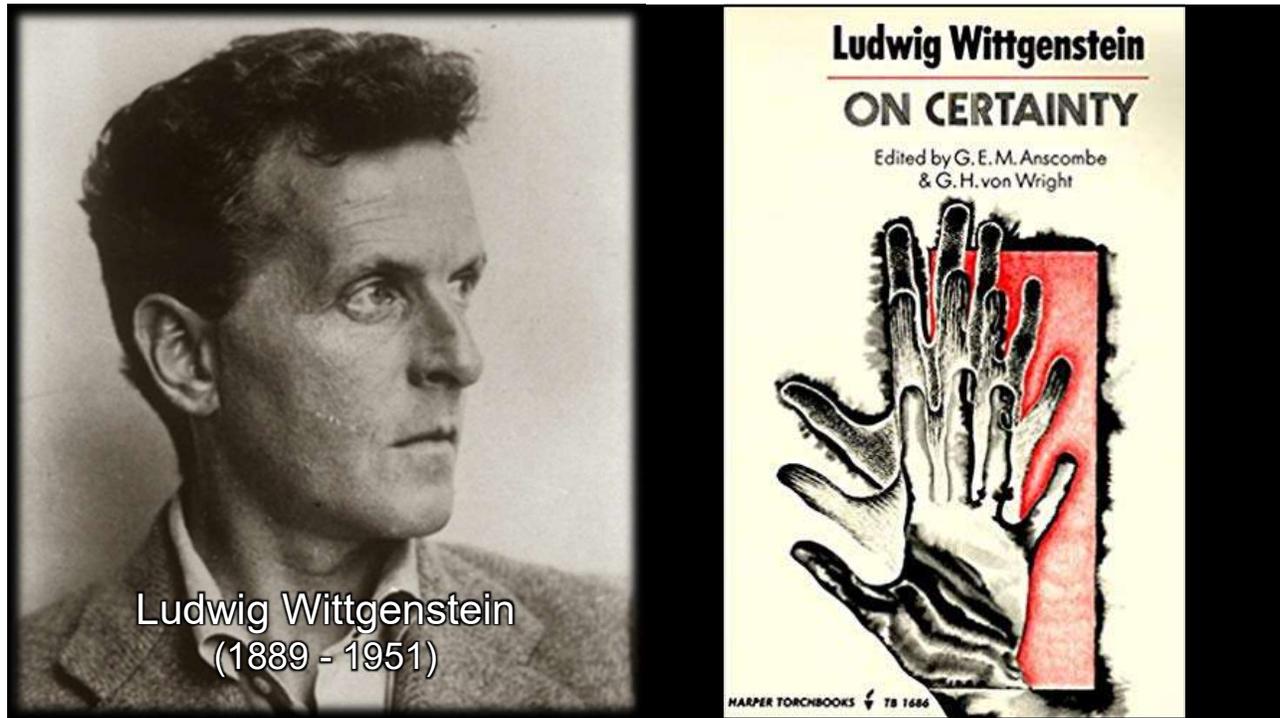
It might be surprising to some, however, that the different views do not fall along the lines of theists and non-theists.

In combining the options of theists and non-theists together with the options of relevant and irrelevant we get these results.

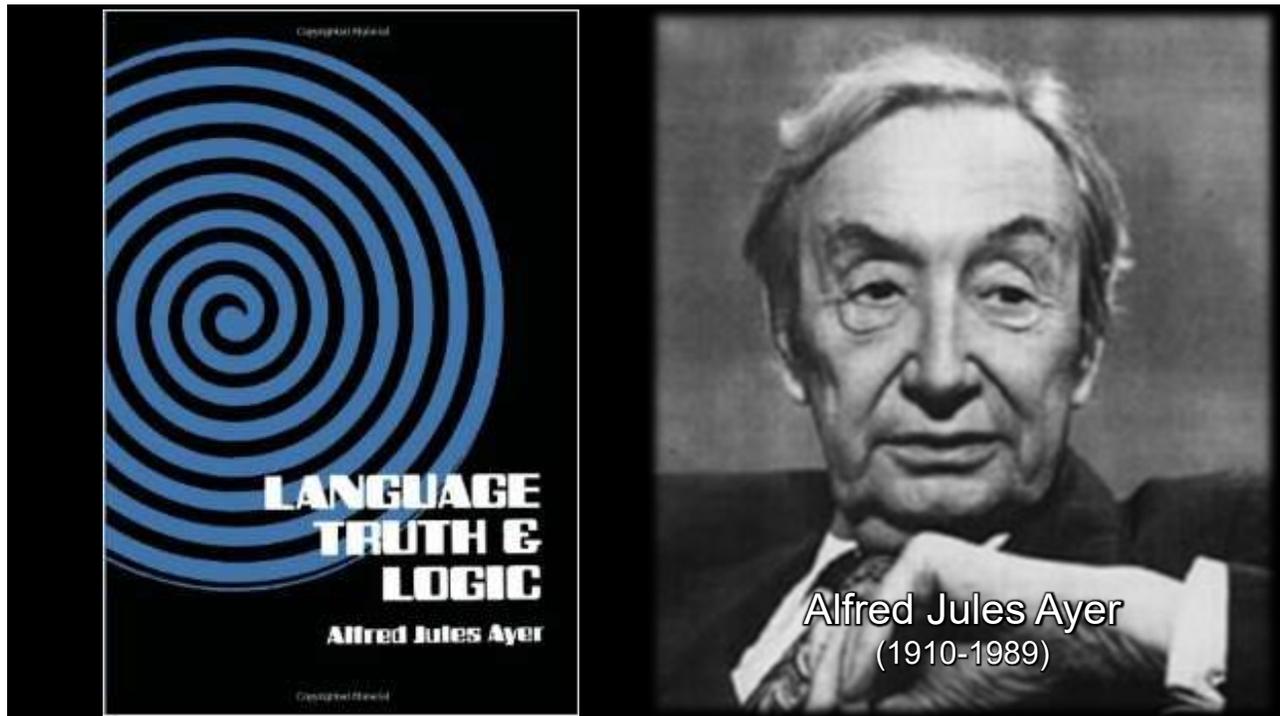
		Irrelevant		
non-Theists		non-Theists / Irrelevant	Theists / Irrelevant	Theists
		non-Theists / Relevant	Theists / Relevant	
		Relevant		



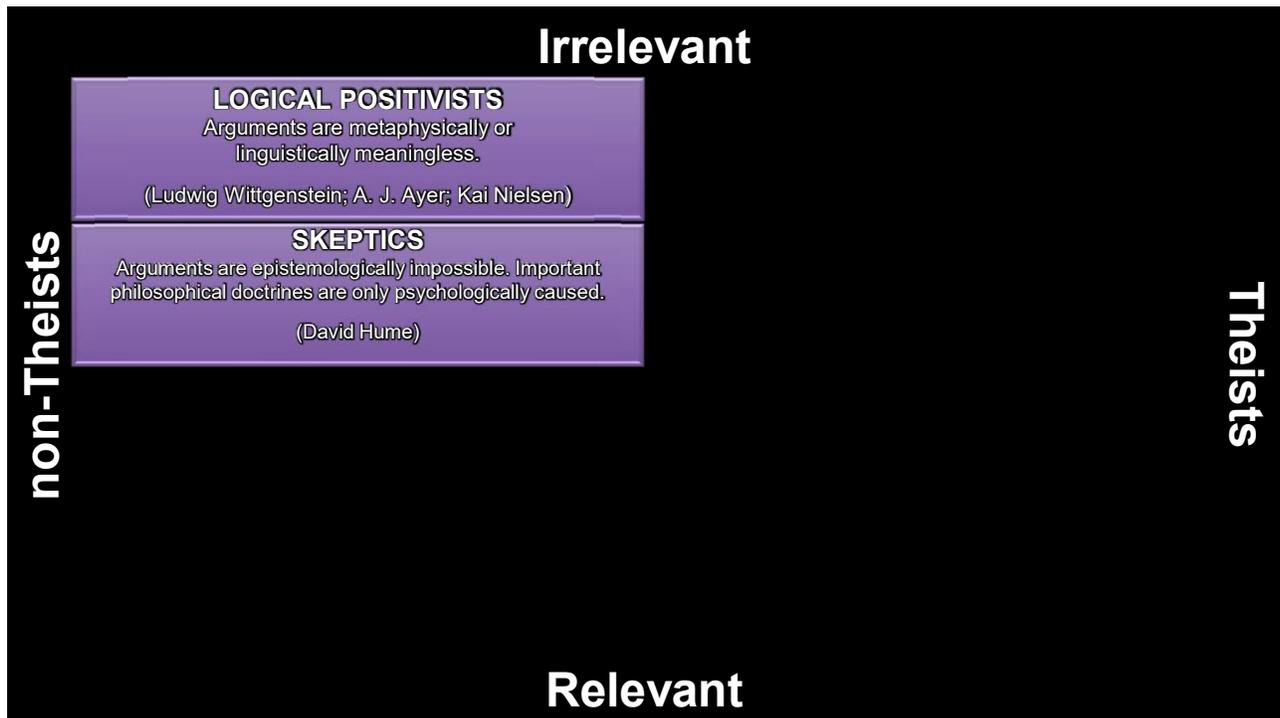
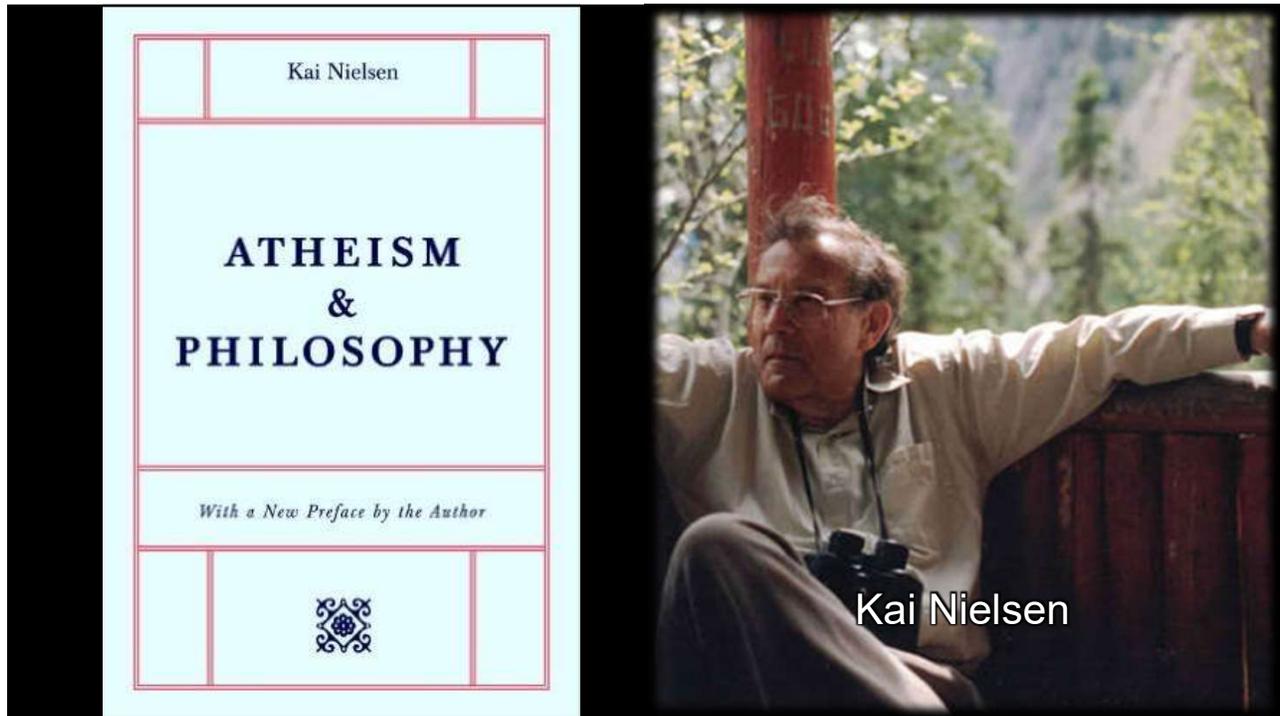


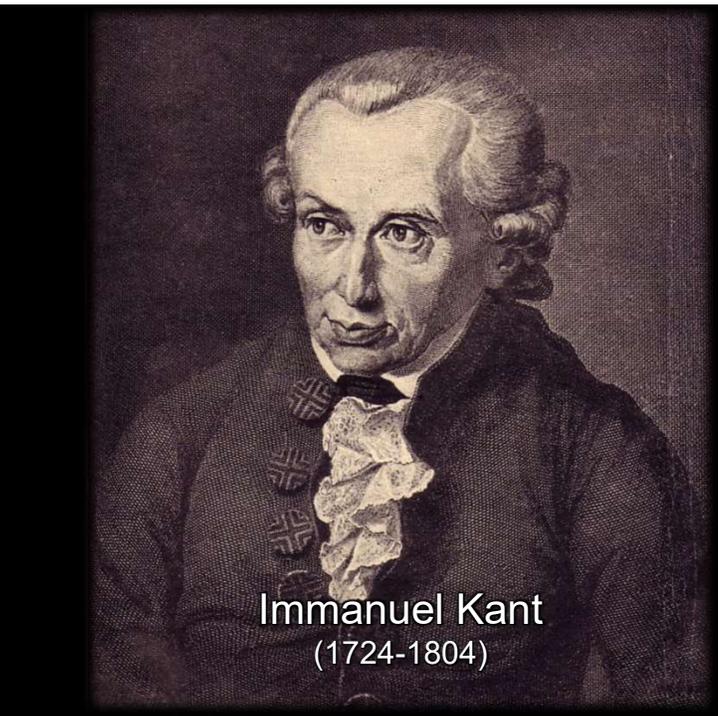
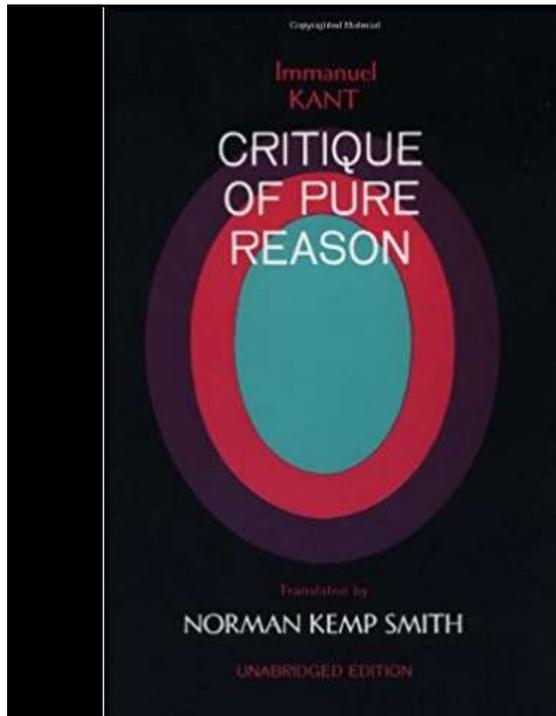
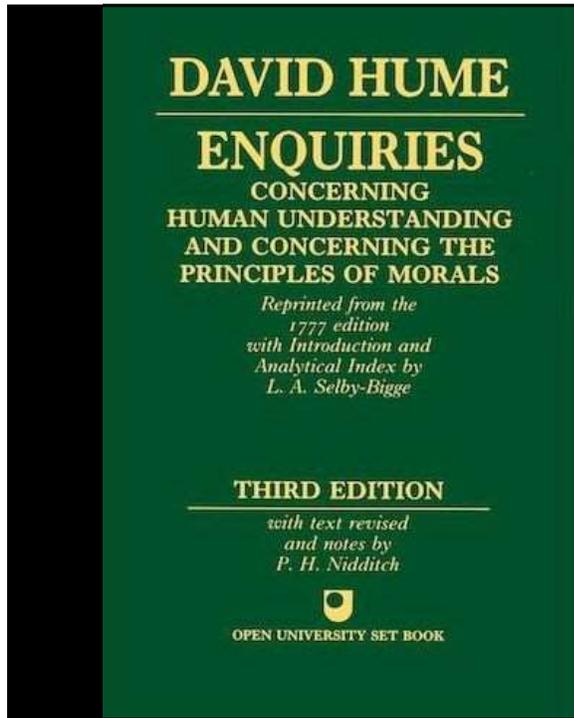


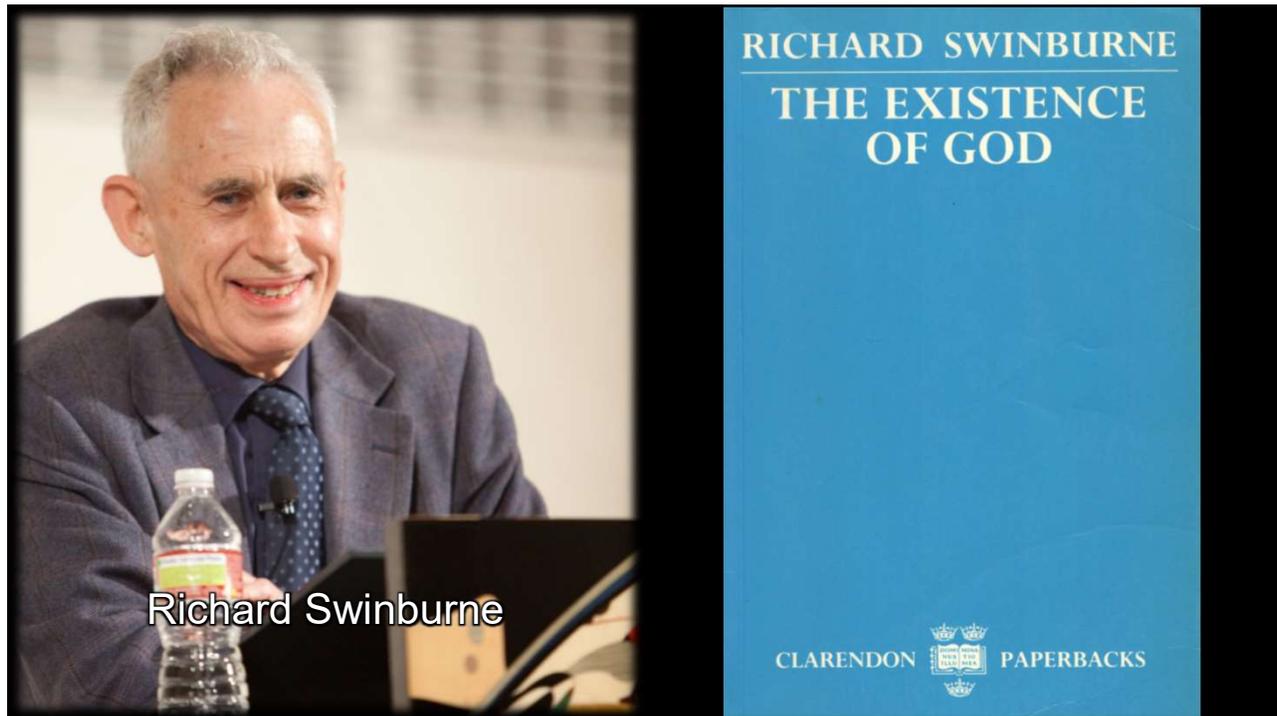
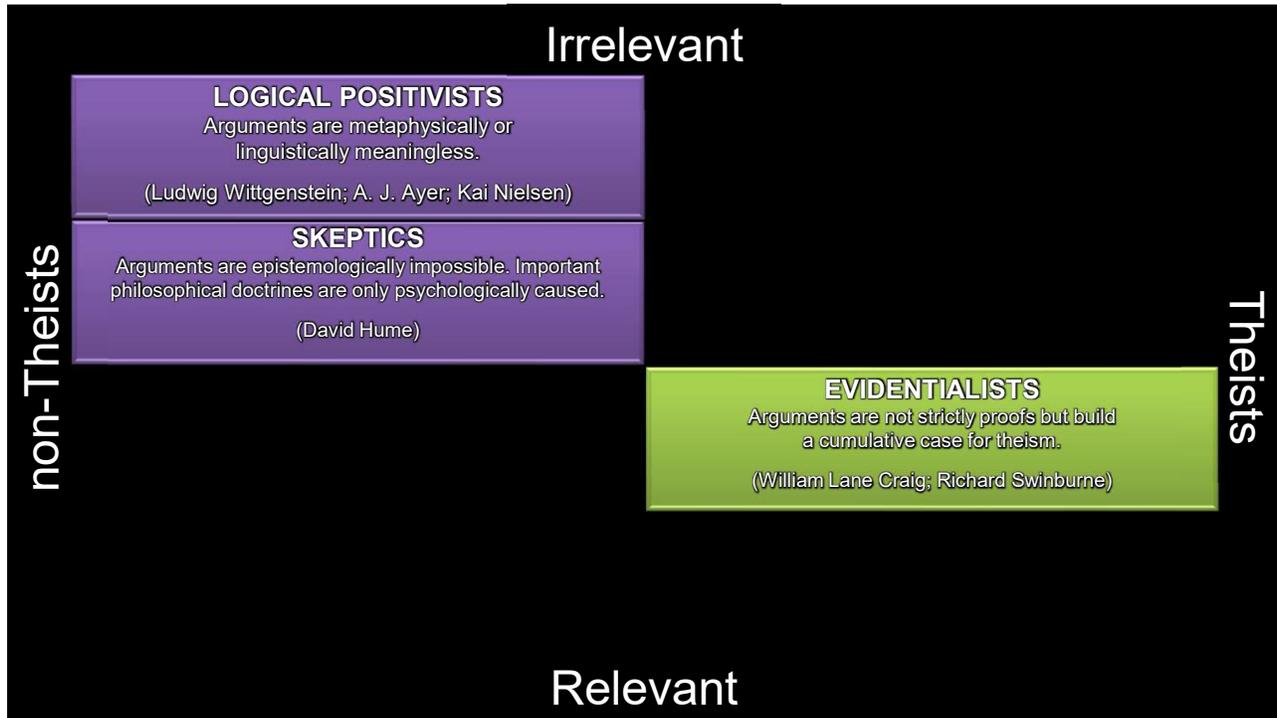
Ludwig Wittgenstein
(1889 - 1951)

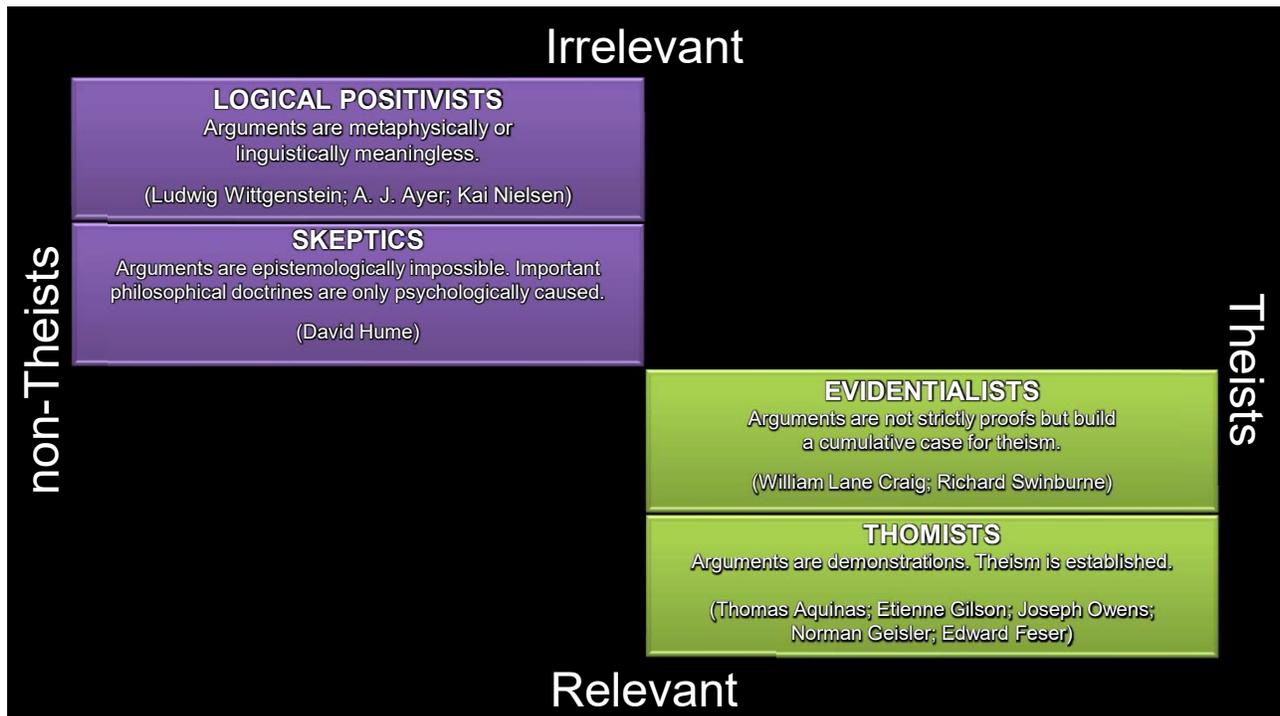
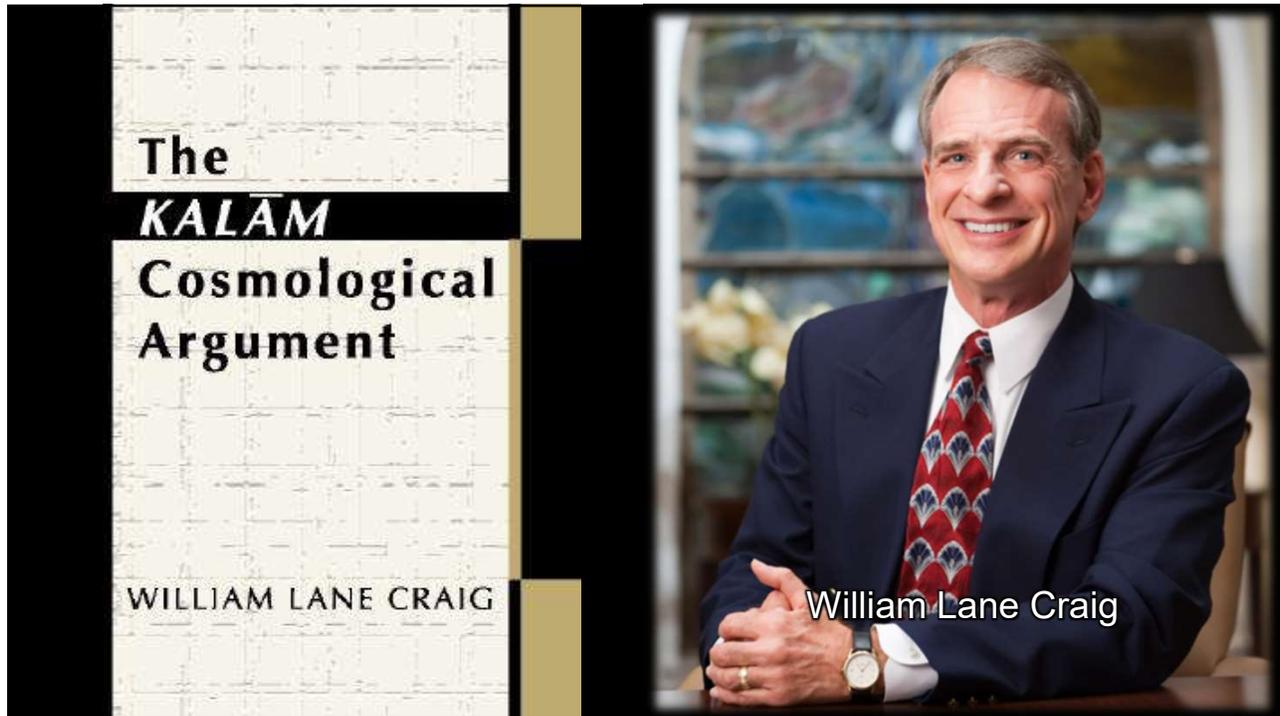


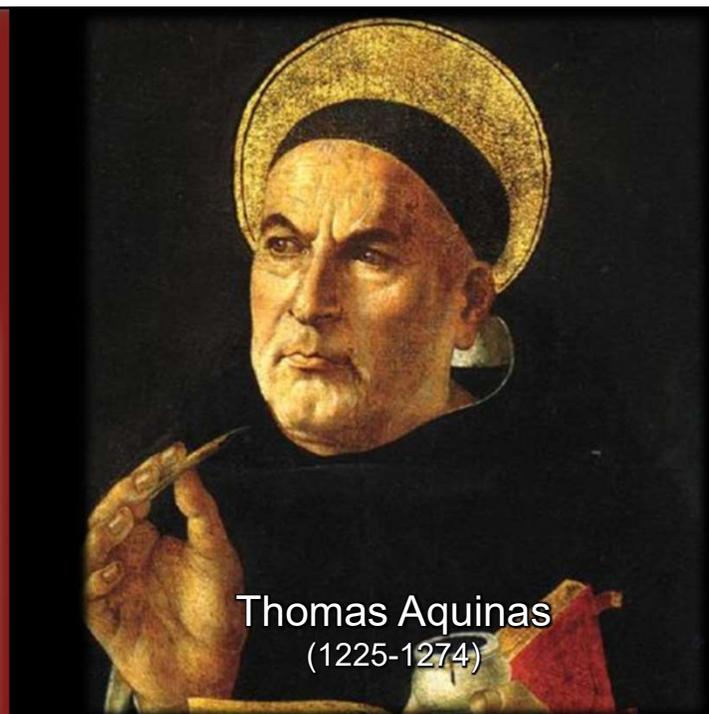
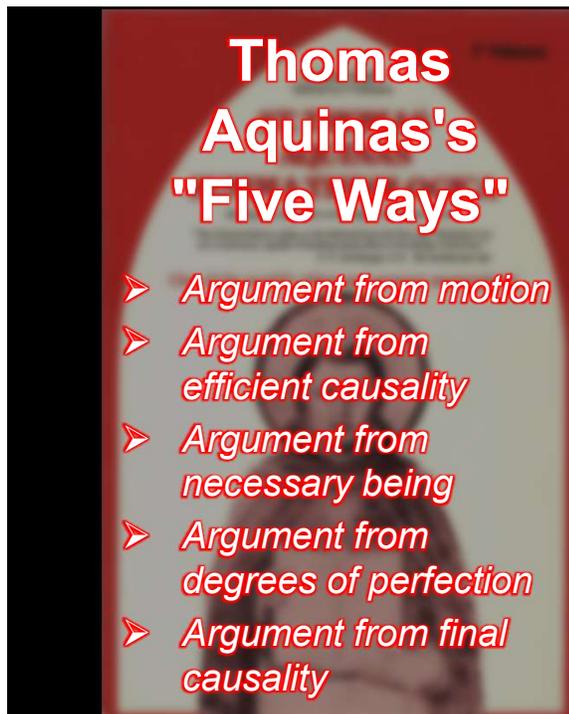
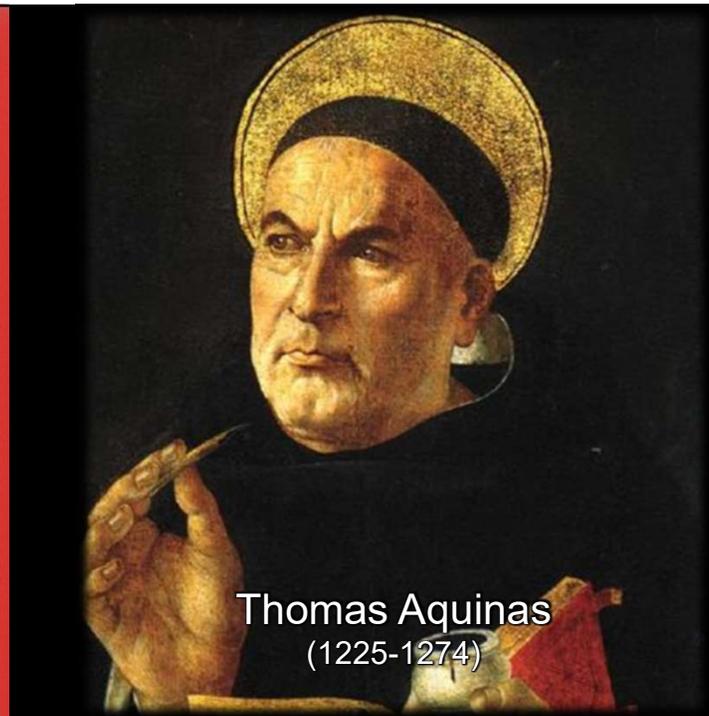
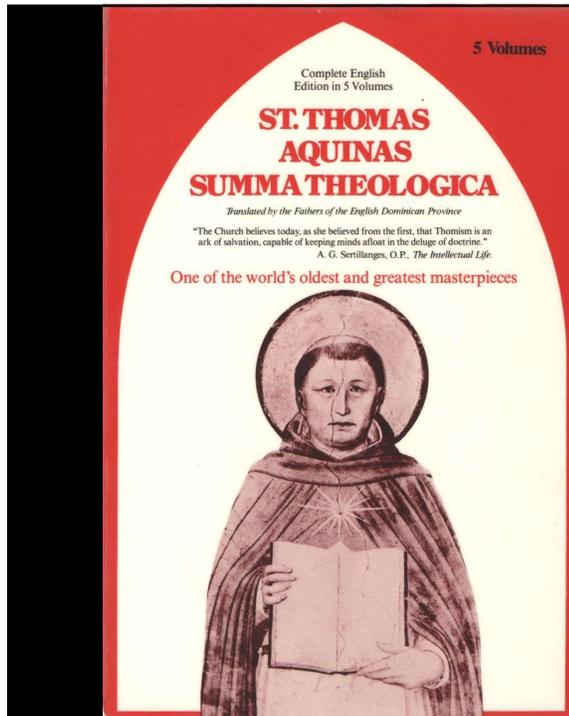
Alfred Jules Ayer
(1910-1989)

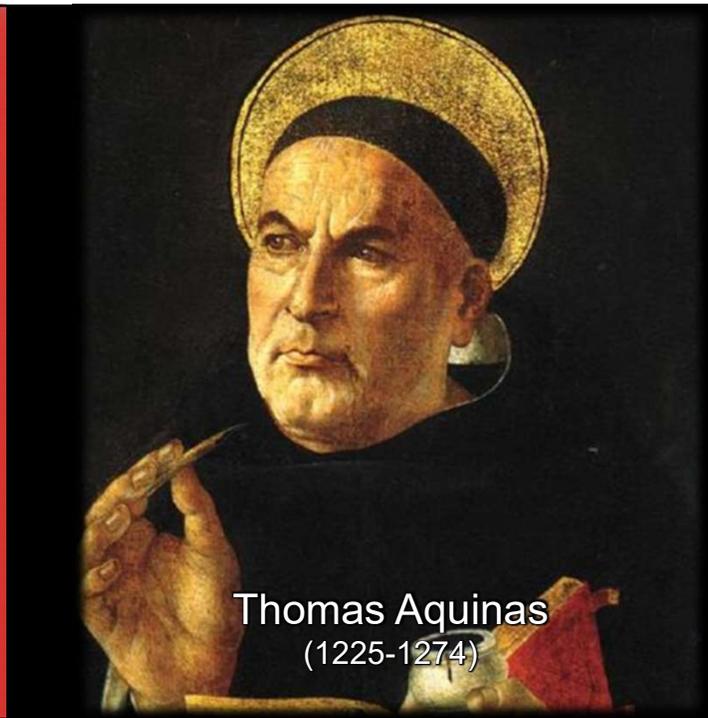
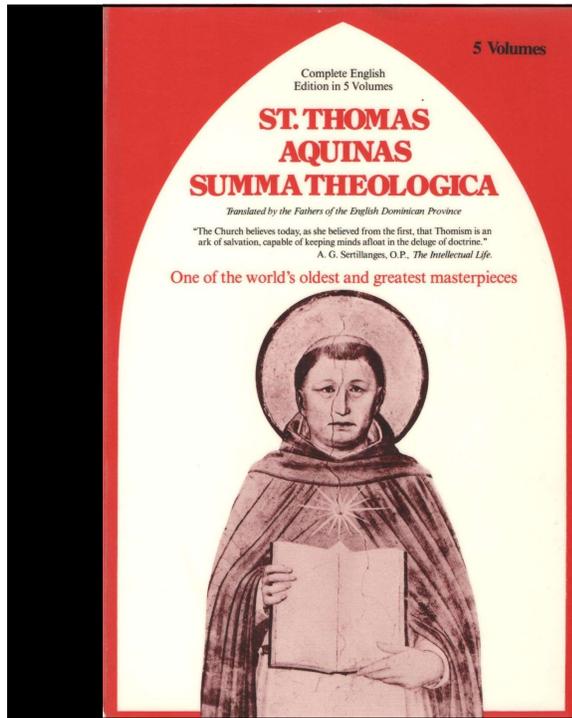




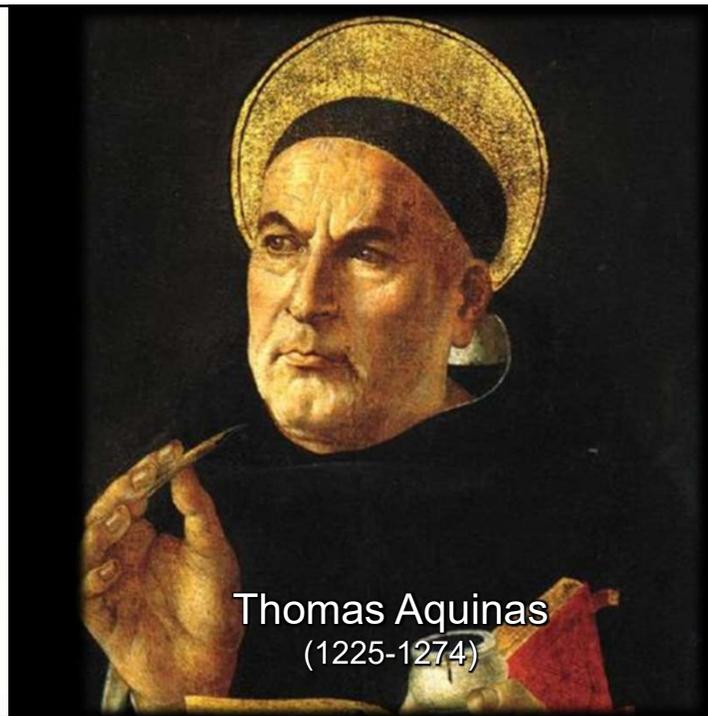
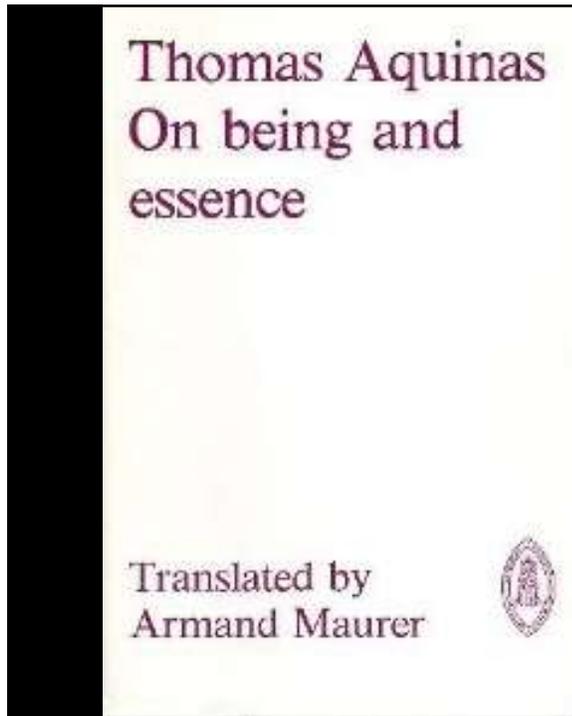








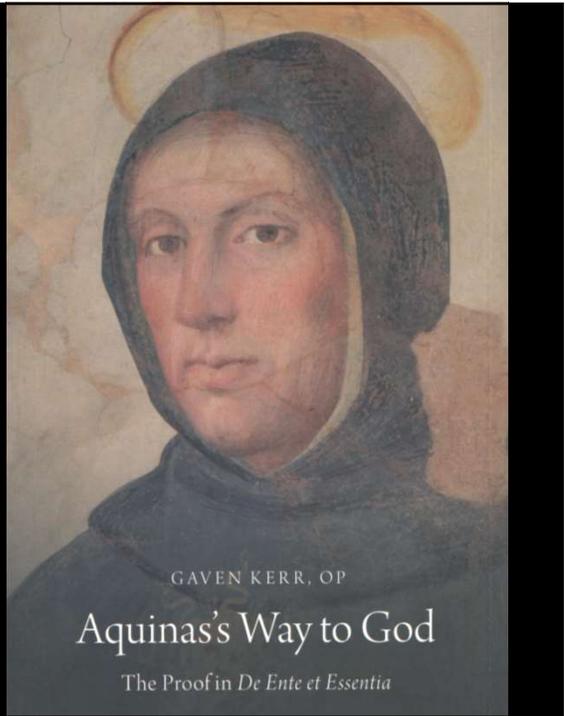
Thomas Aquinas
(1225-1274)



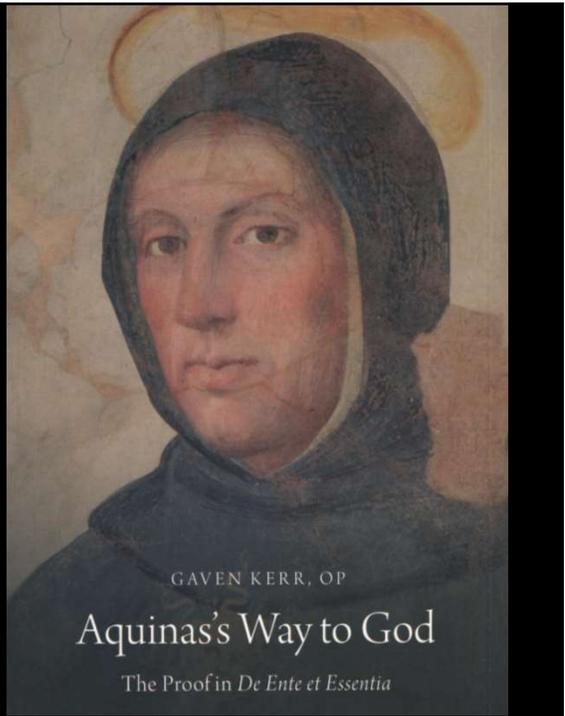
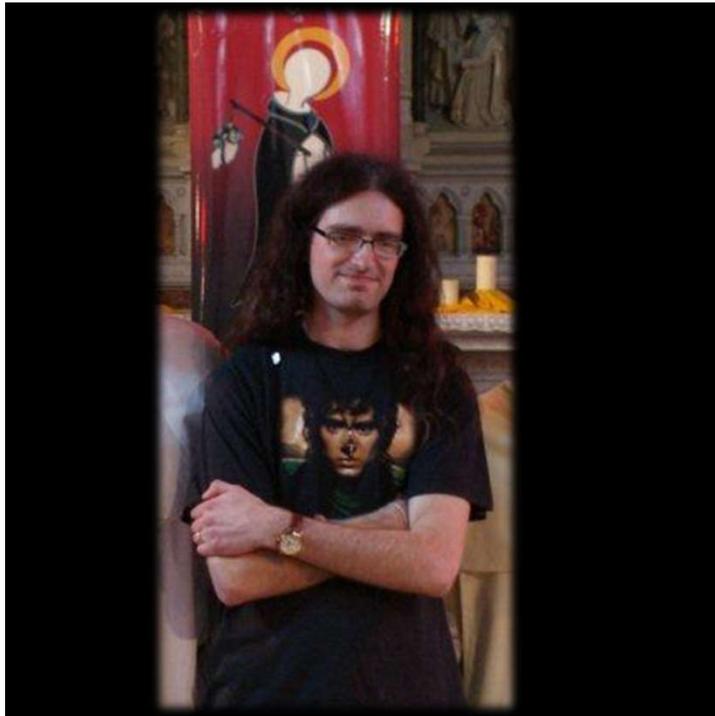
Thomas Aquinas
(1225-1274)



Gaven Kerr



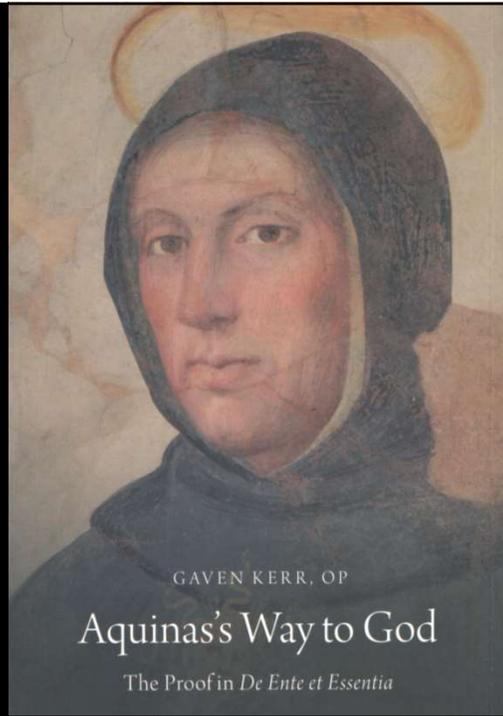
GAVEN KERR, OP
Aquinas's Way to God
The Proof in *De Ente et Essentia*



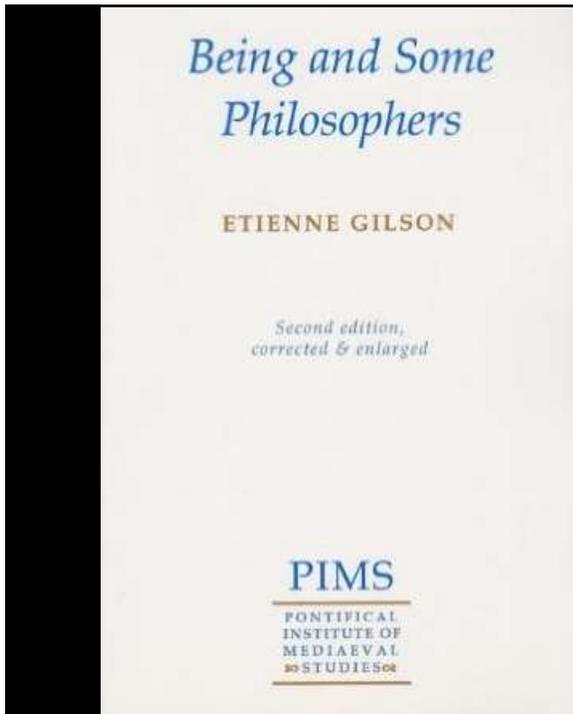
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Gaven Kerr



GAVEN KERR, OP
Aquinas's Way to God
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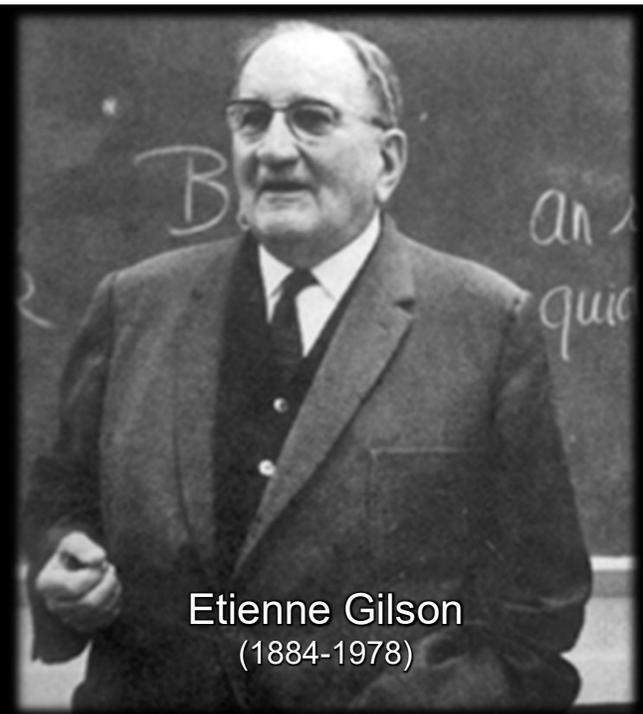
*Being and Some
Philosophers*

ETIENNE GILSON

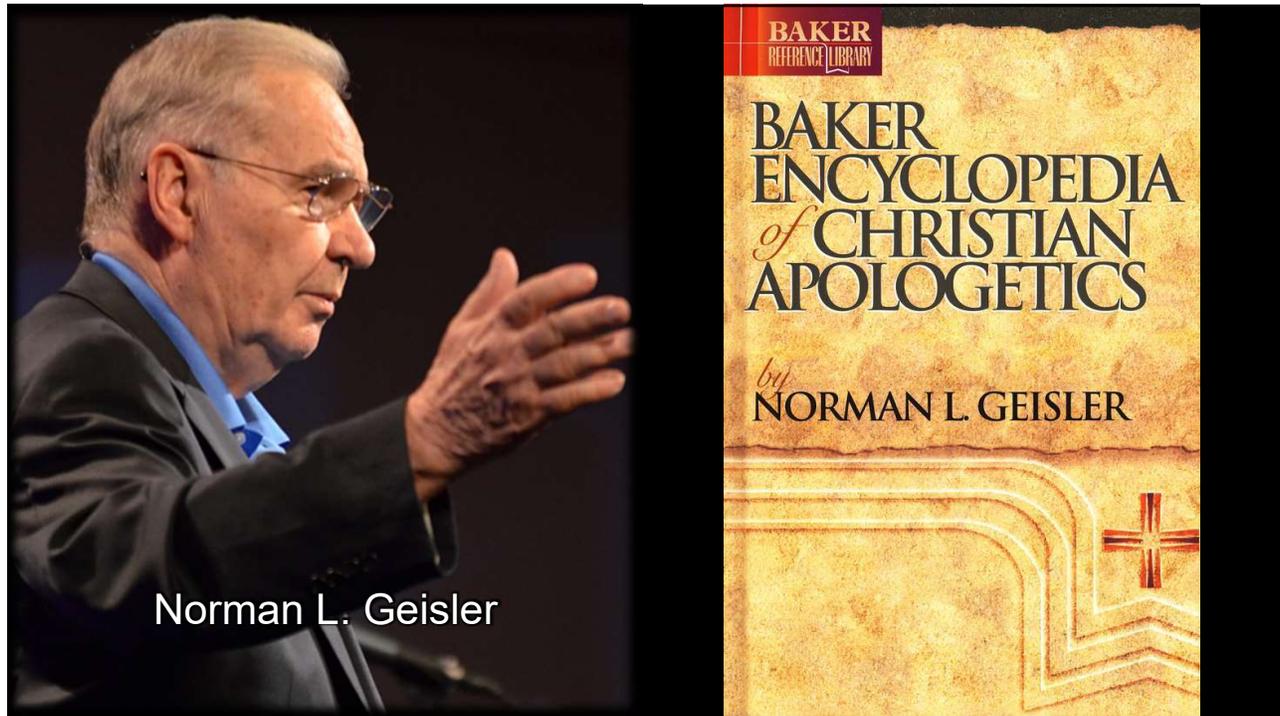
*Second edition,
corrected & enlarged*

PIMS

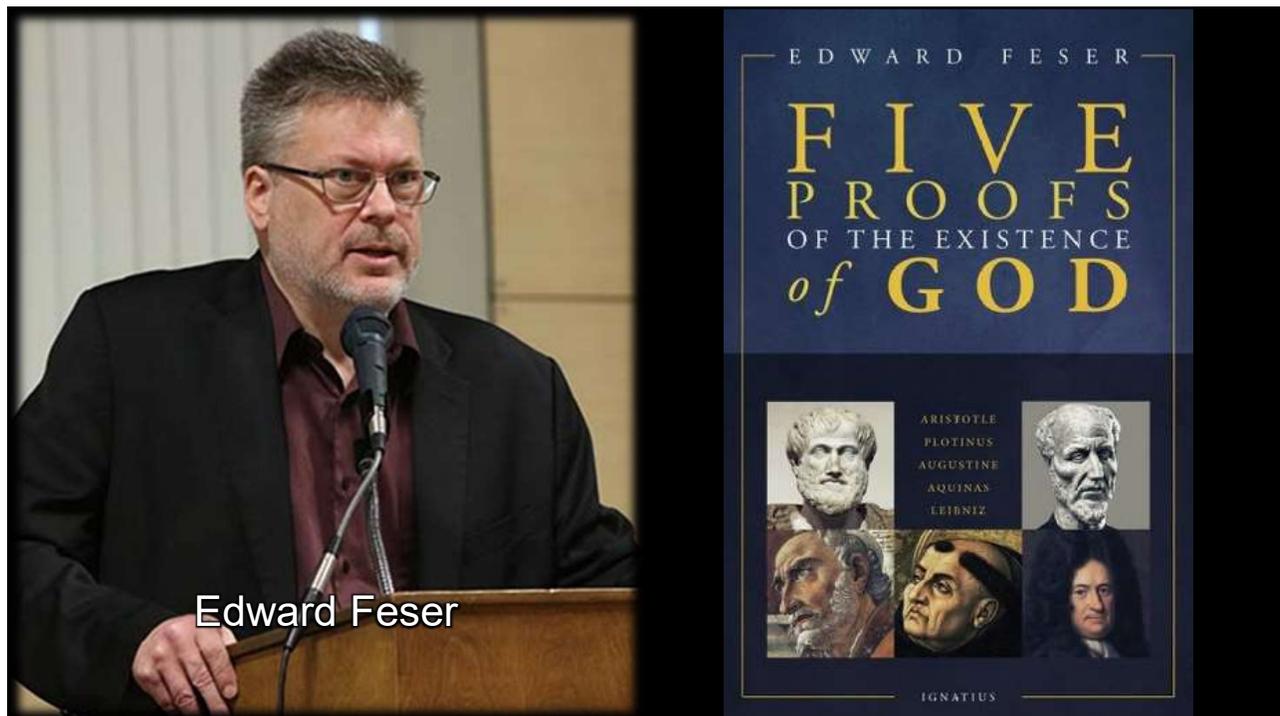
PONTIFICAL
INSTITUTE OF
MEDIAEVAL
STUDIES



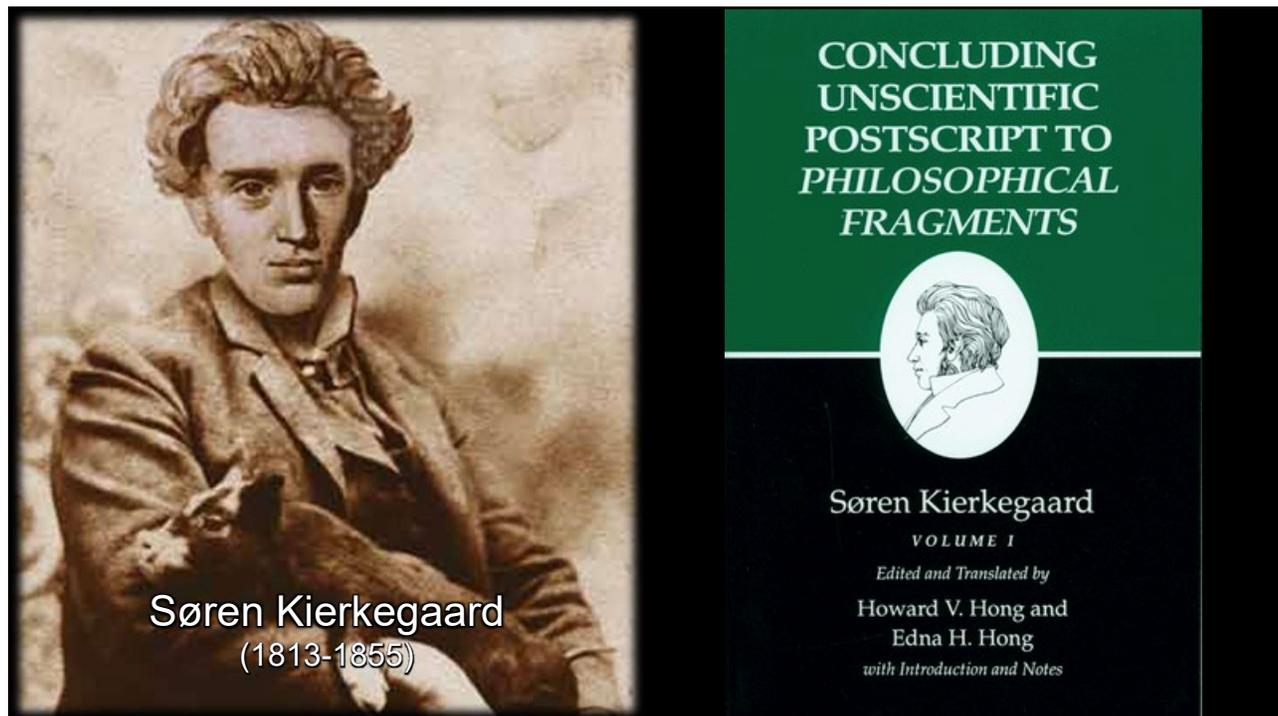
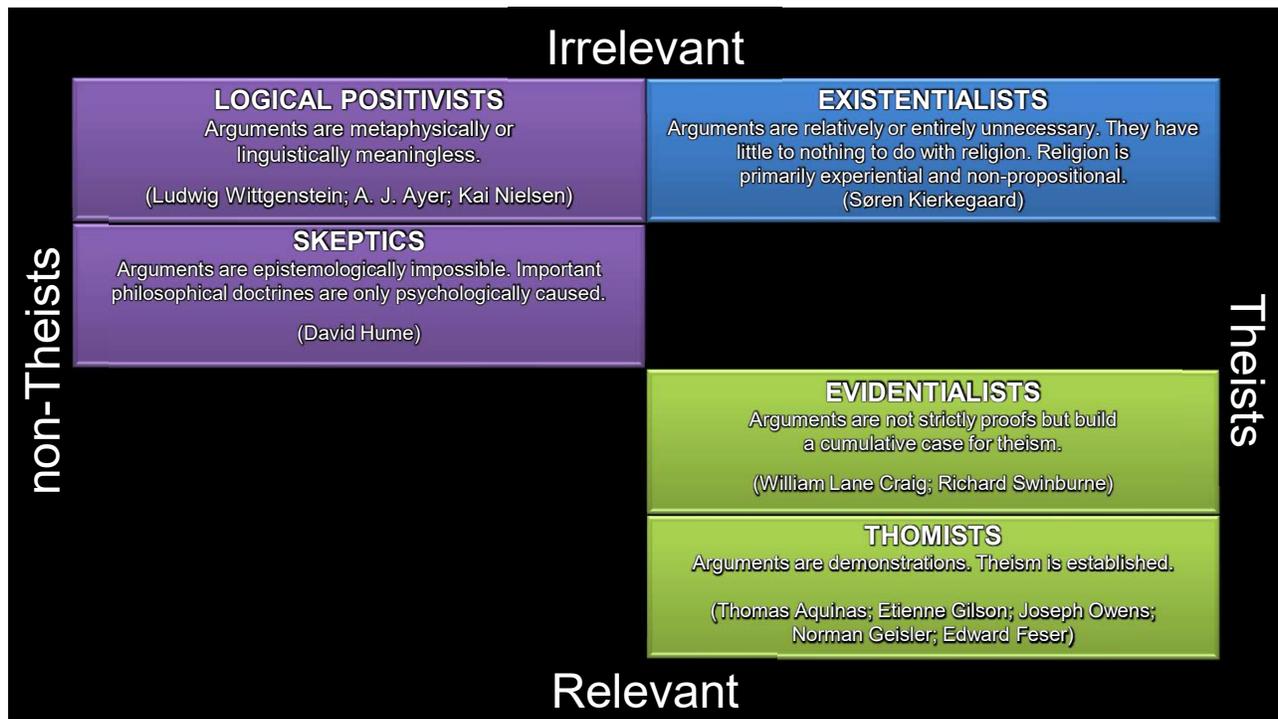
Etienne Gilson
(1884-1978)

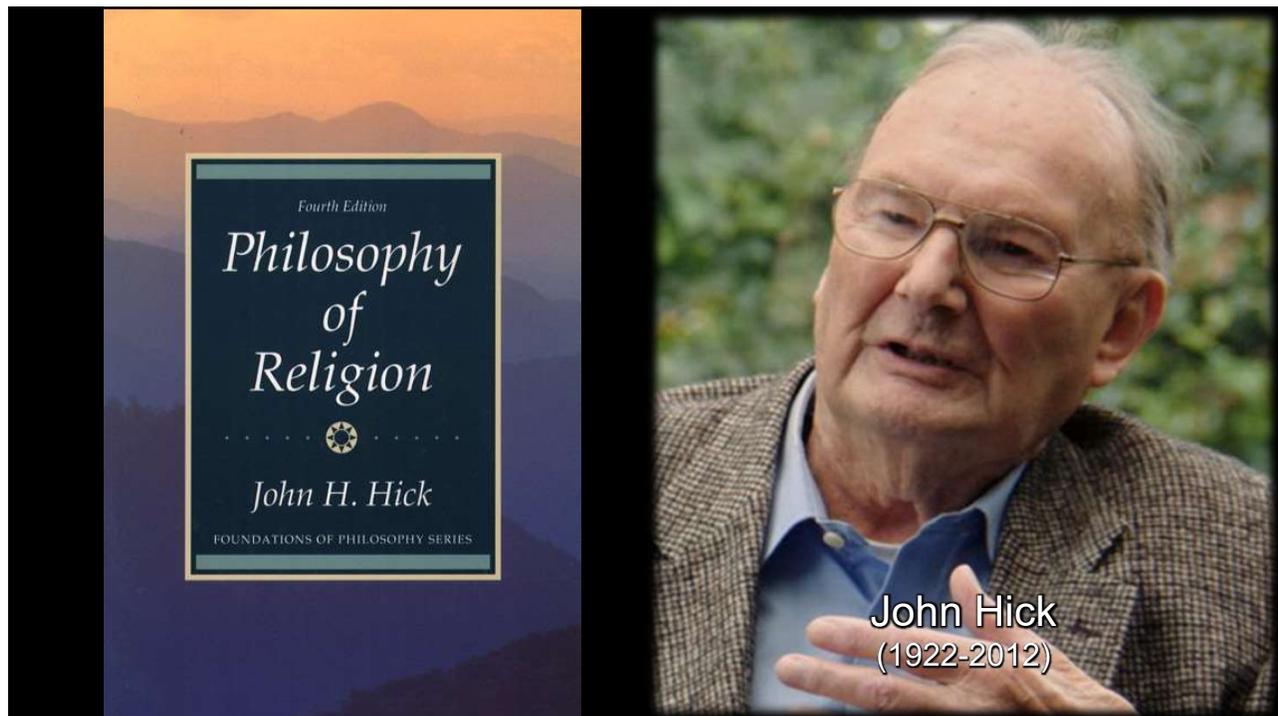
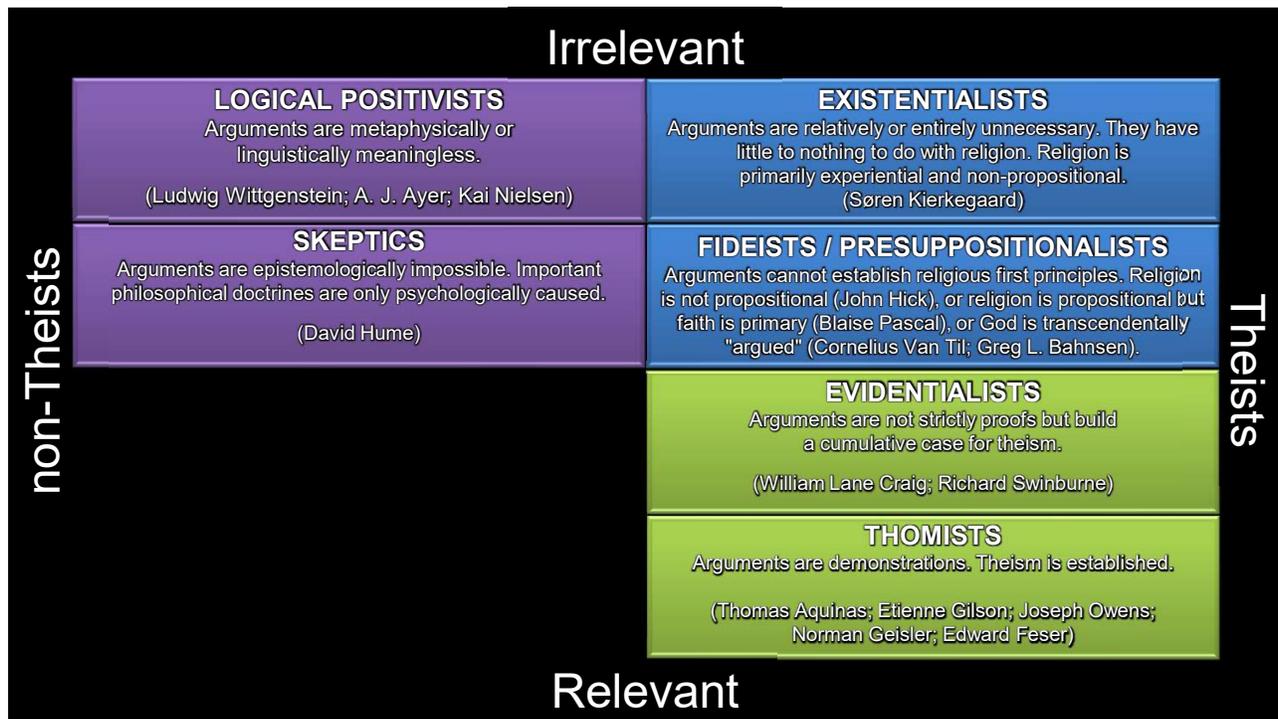


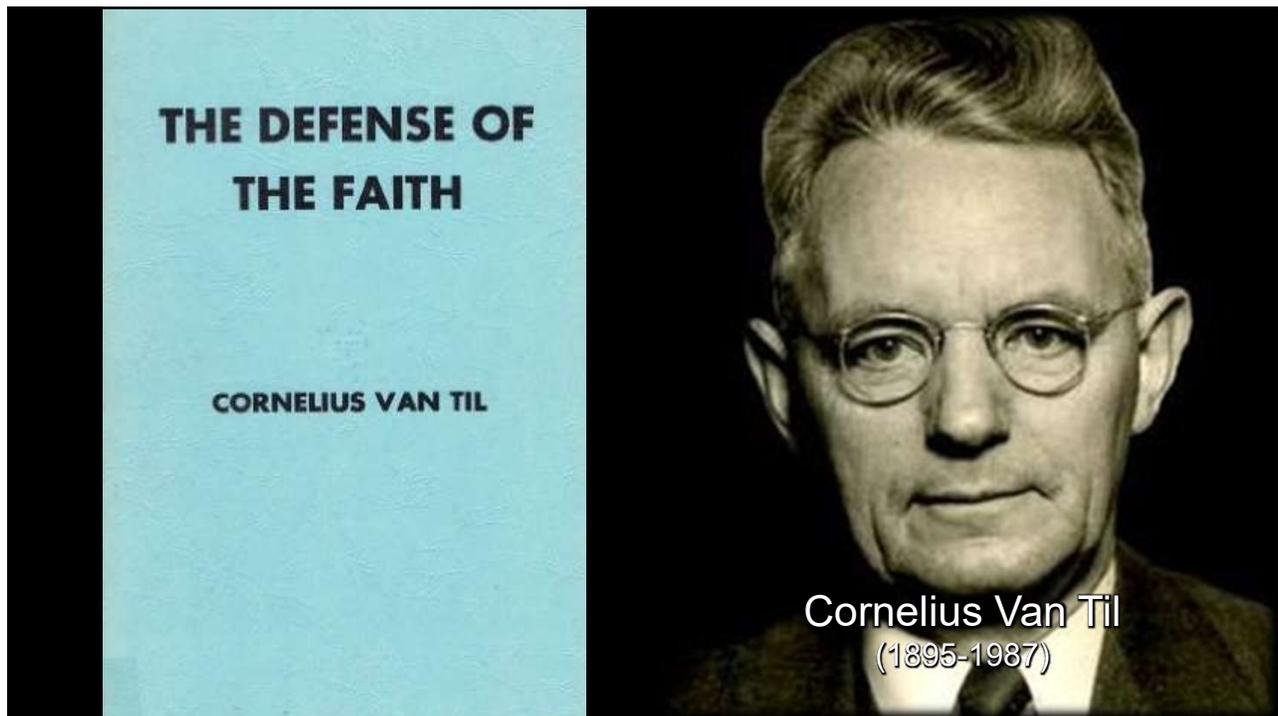
Norman L. Geisler

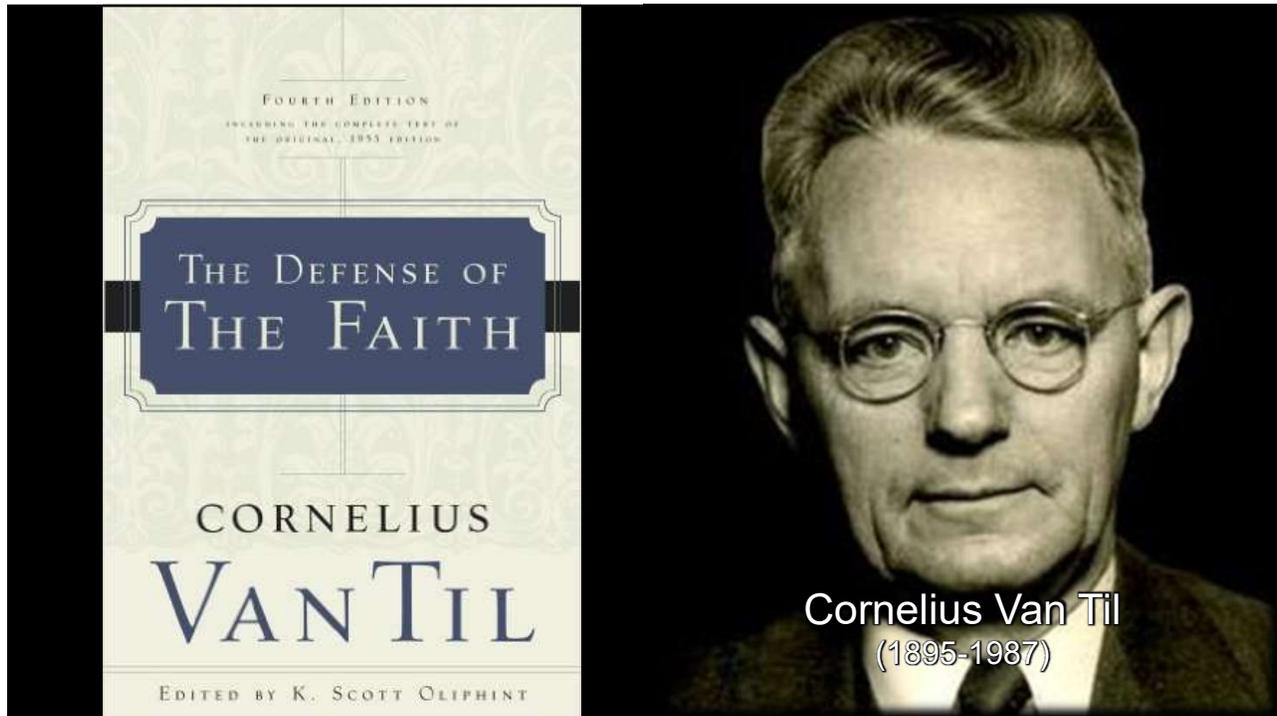


Edward Feser

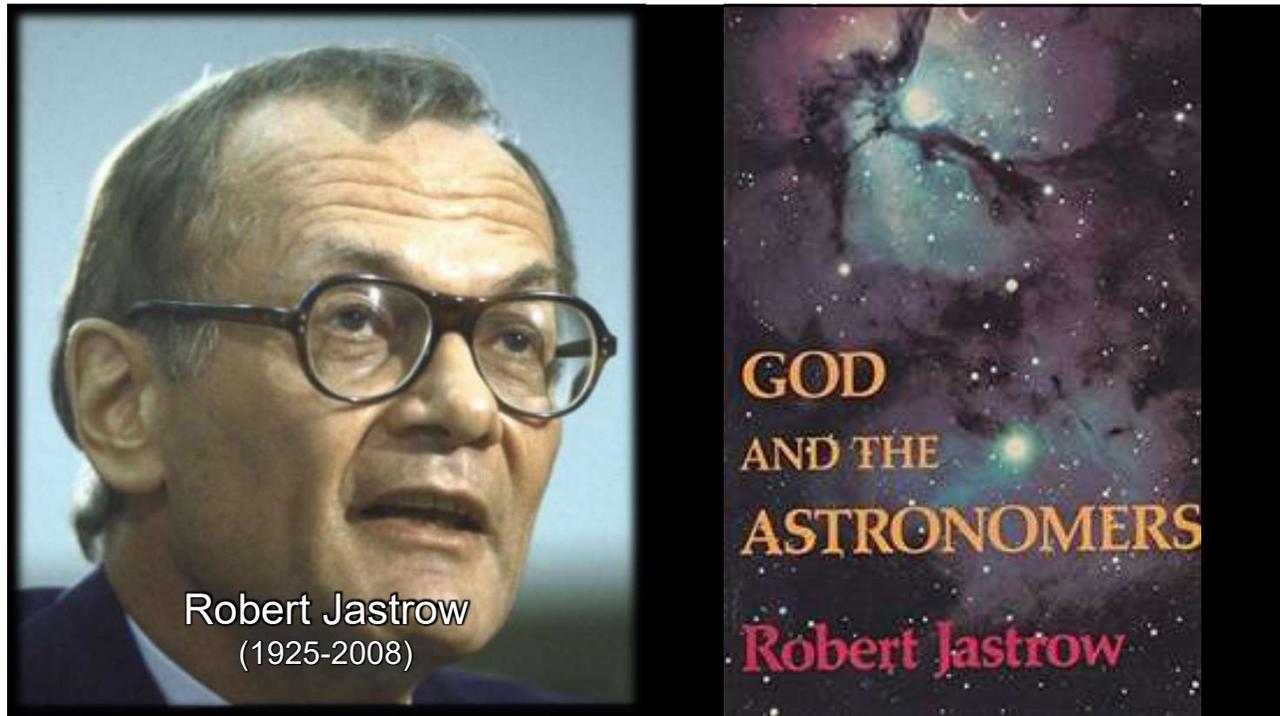






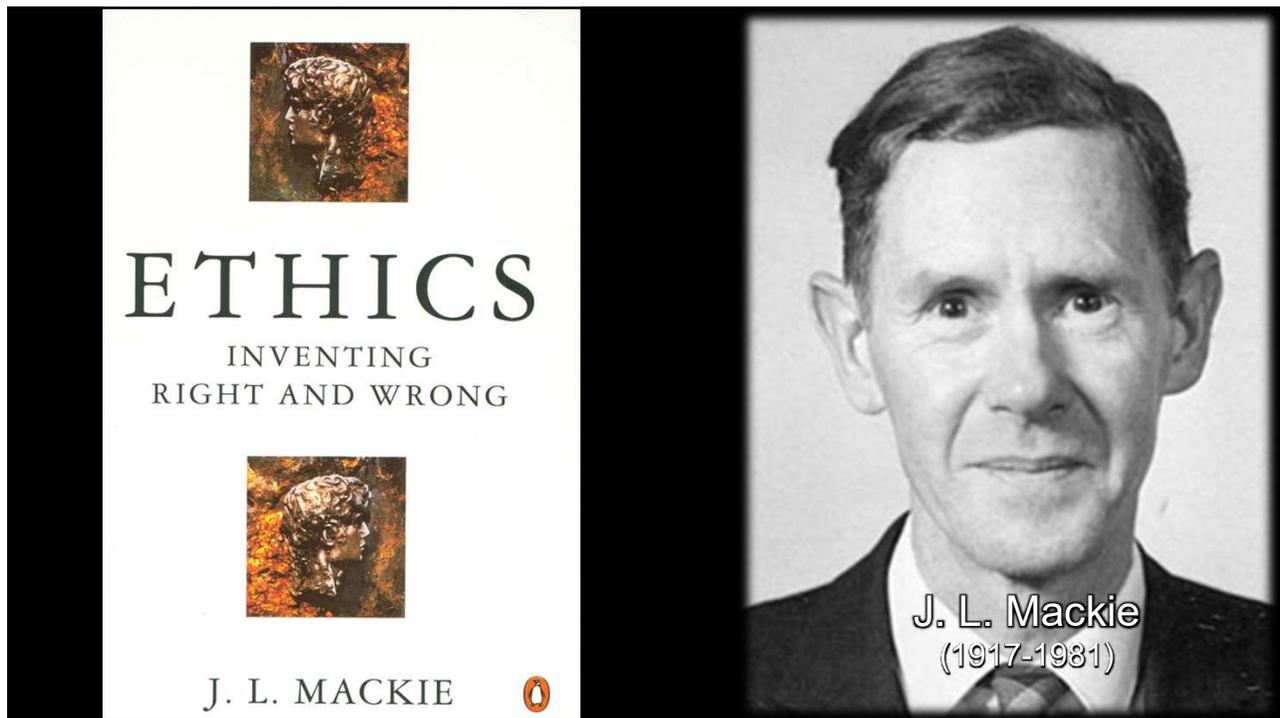
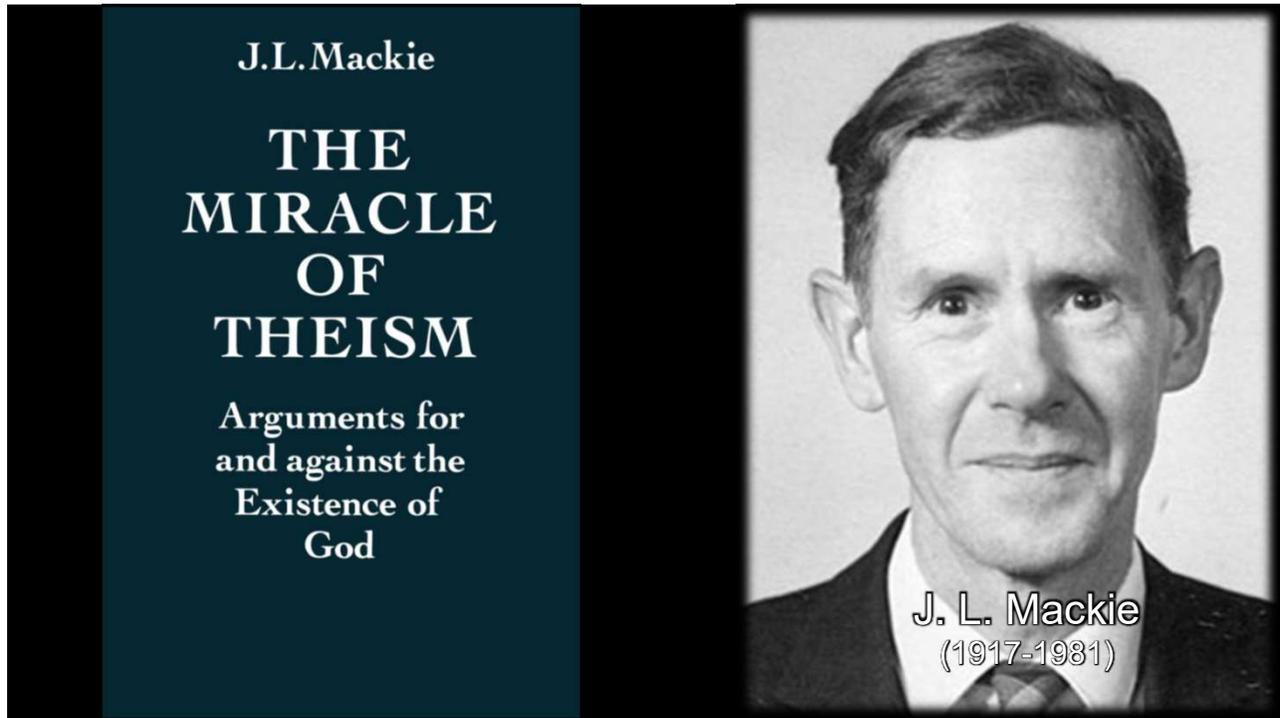


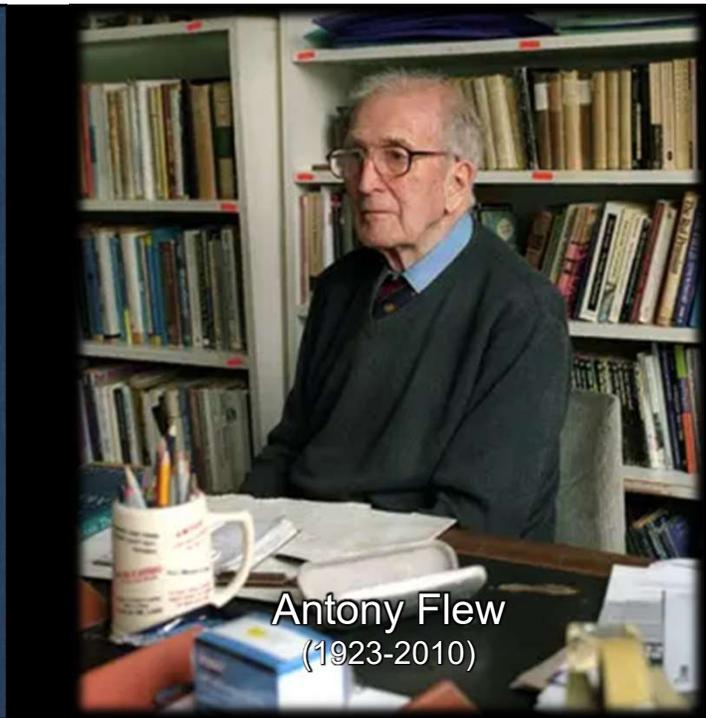
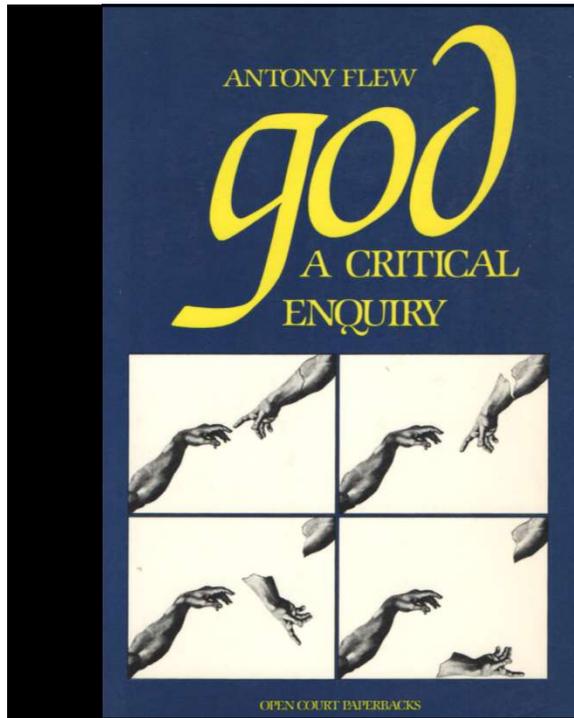
Irrelevant		
non-Theists	LOGICAL POSITIVISTS Arguments are metaphysically or linguistically meaningless. (Ludwig Wittgenstein; A. J. Ayer; Kai Nielsen)	EXISTENTIALISTS Arguments are relatively or entirely unnecessary. They have little to nothing to do with religion. Religion is primarily experiential and non-propositional. (Søren Kierkegaard)
	SKEPTICS Arguments are epistemologically impossible. Important philosophical doctrines are only psychologically caused. (David Hume)	FIDEISTS / PRESUPPOSITIONALISTS Arguments cannot establish religious first principles. Religion is not propositional (John Hick), or religion is propositional but faith is primary (Blaise Pascal), or God is transcendently "argued" (Cornelius Van Til; Greg L. Bahnsen).
	AGNOSTICS Not all of the evidence is in. Theism may be established with further proof. (Robert Jastrow; Anthony Kenny)	EVIDENTIALISTS Arguments are not strictly proofs but build a cumulative case for theism. (William Lane Craig; Richard Swinburne)
		THOMISTS Arguments are demonstrations. Theism is established. (Thomas Aquinas; Etienne Gilson; Joseph Owens; Norman Geisler; Edward Feser)
	Relevant	
Theists		



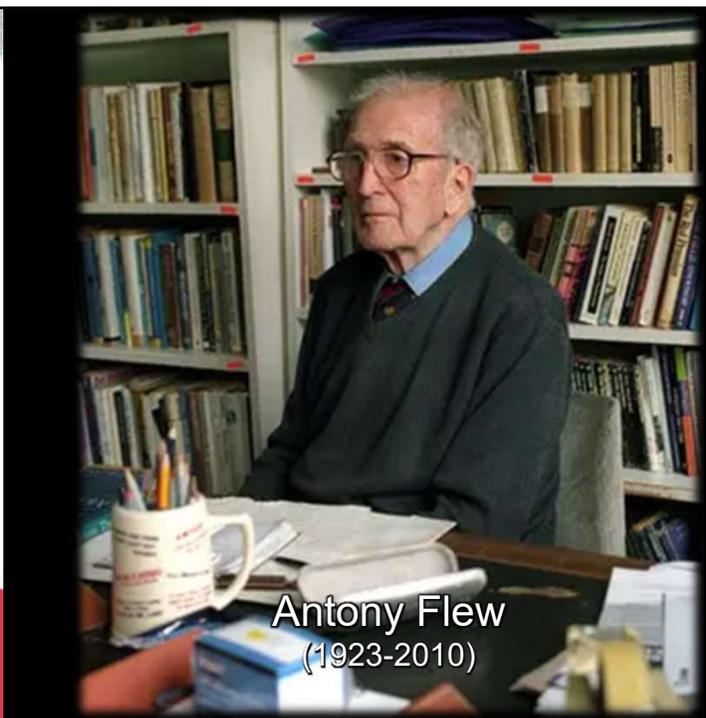
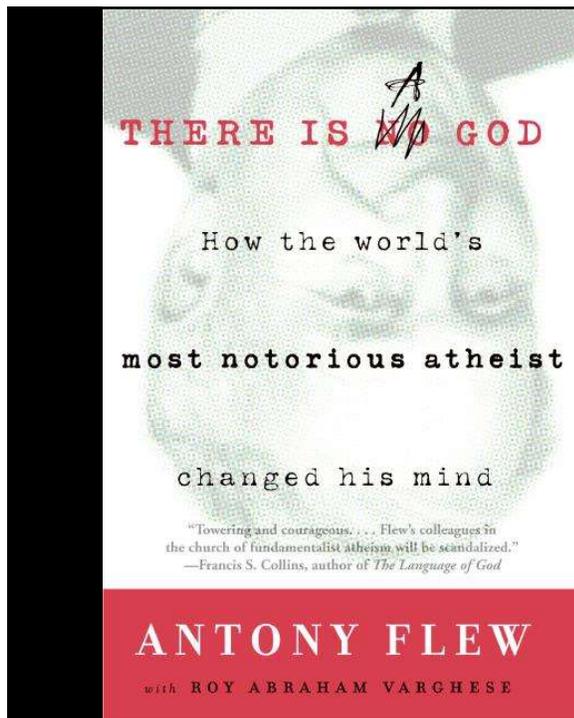
Robert Jastrow
(1925-2008)

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	ATHEISTS Arguments surface important philosophical issues. The evidence proves atheism. (J. L. Mackie; early Antony Flew; Michael Scriven; Theodore Drange; Michael Martin)	THOMISTS Arguments are demonstrations. Theism is established. (Thomas Aquinas; Etienne Gilson; Joseph Owens; Norman Geisler; Edward Feser)
	Relevant	
Theists		

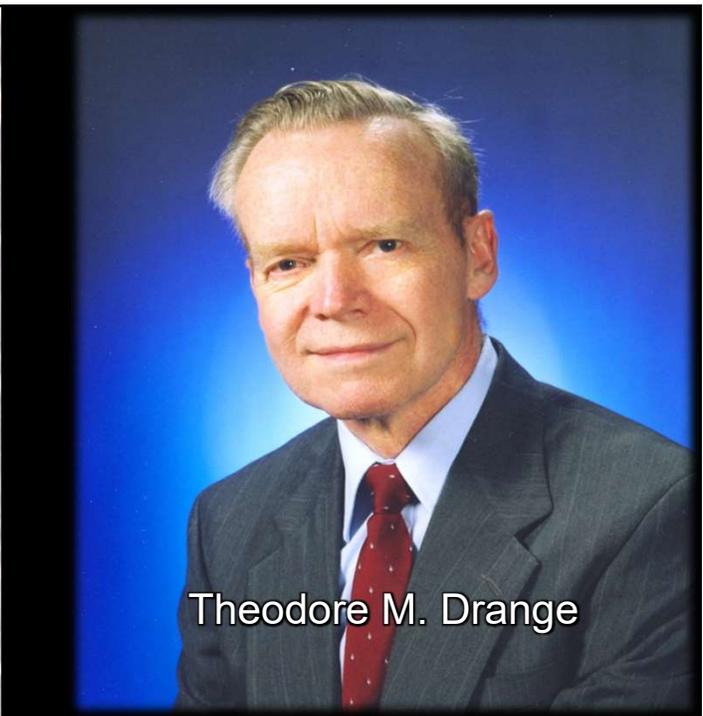
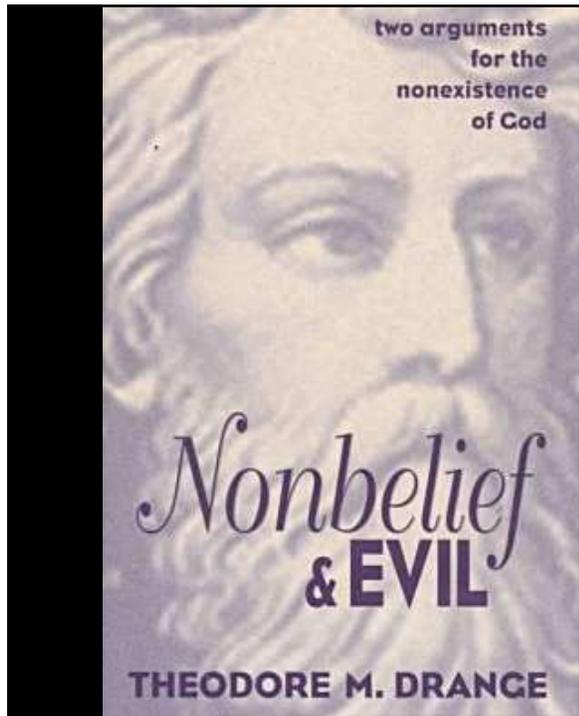
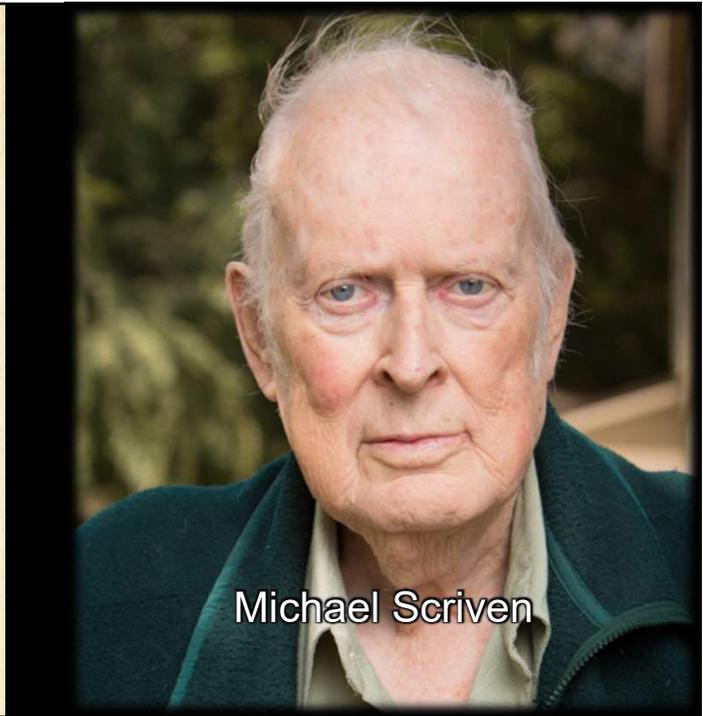
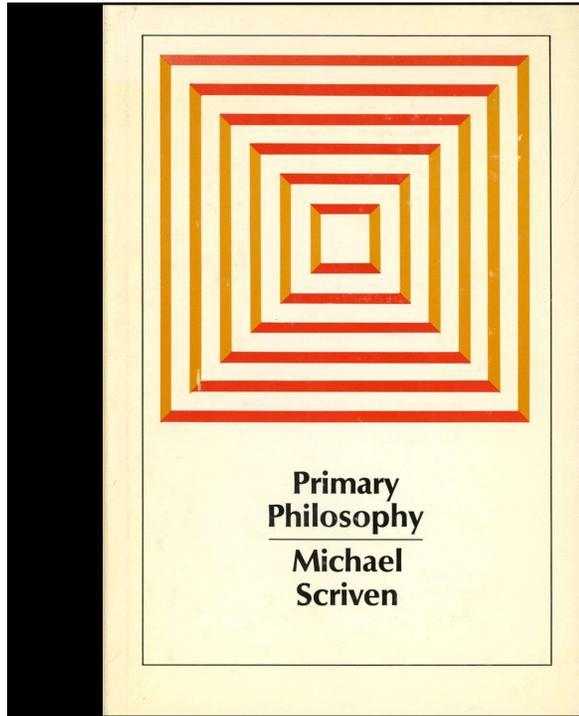


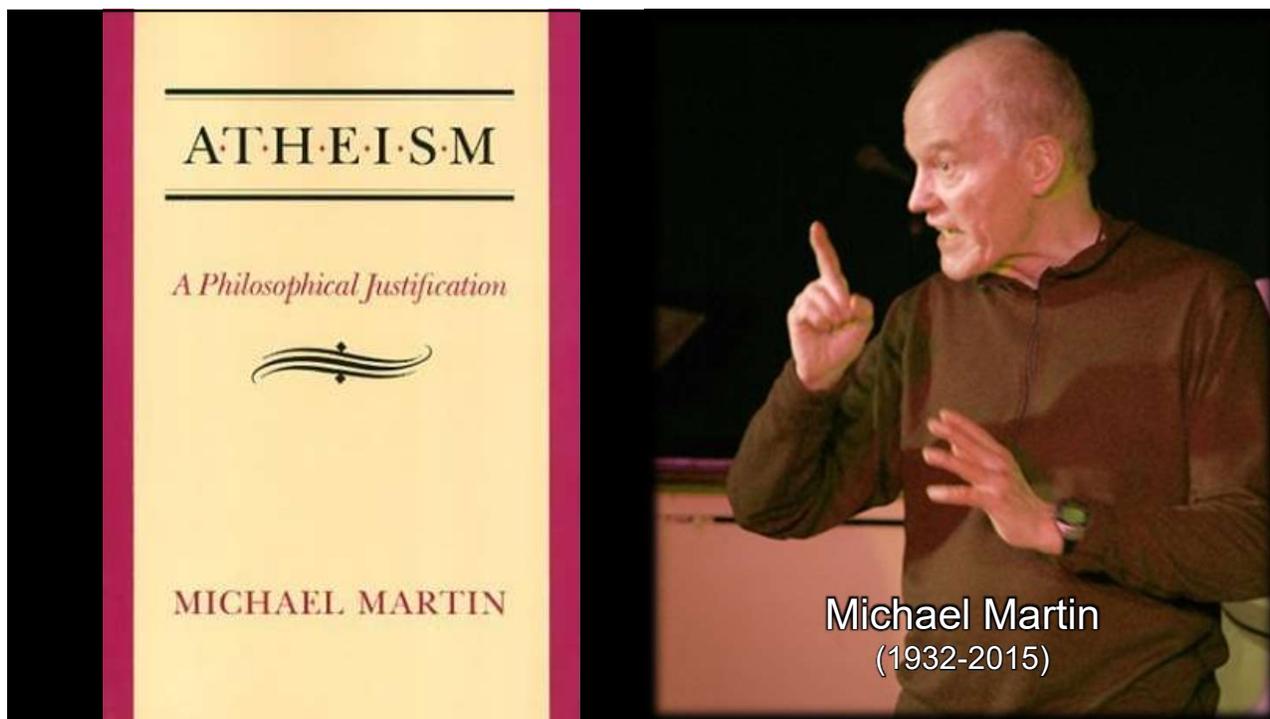


Antony Flew
(1923-2010)

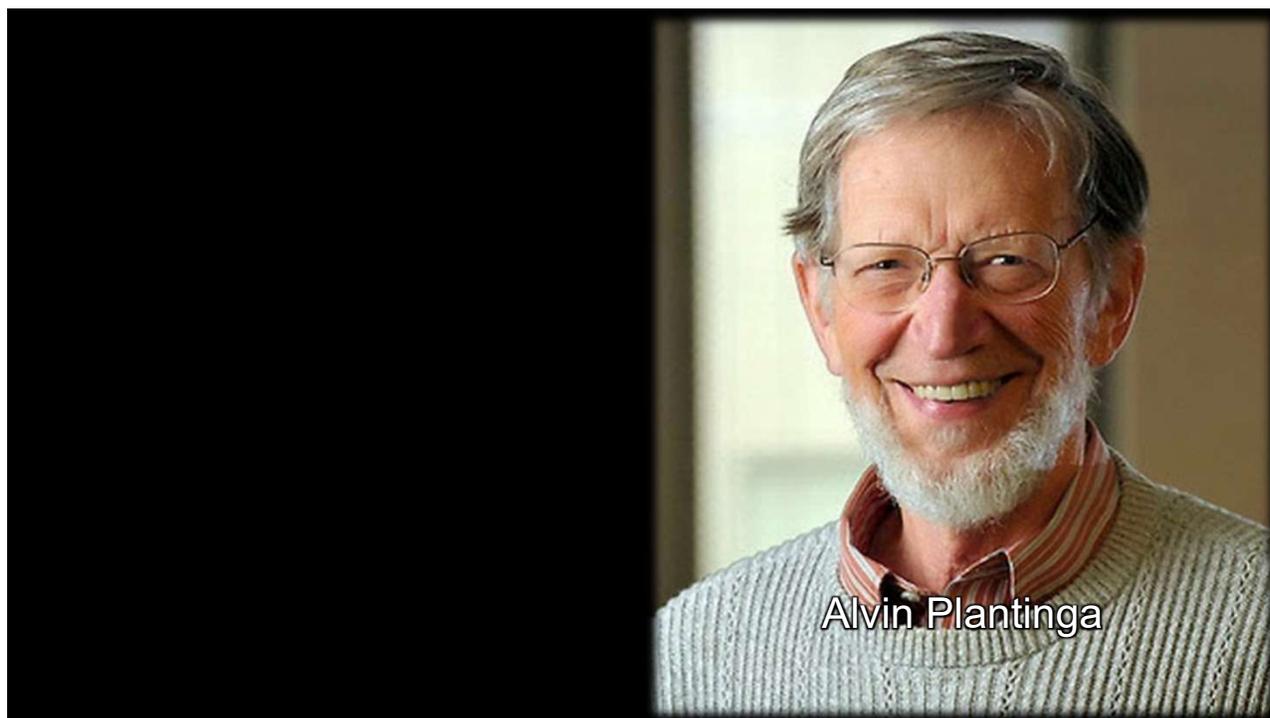


Antony Flew
(1923-2010)

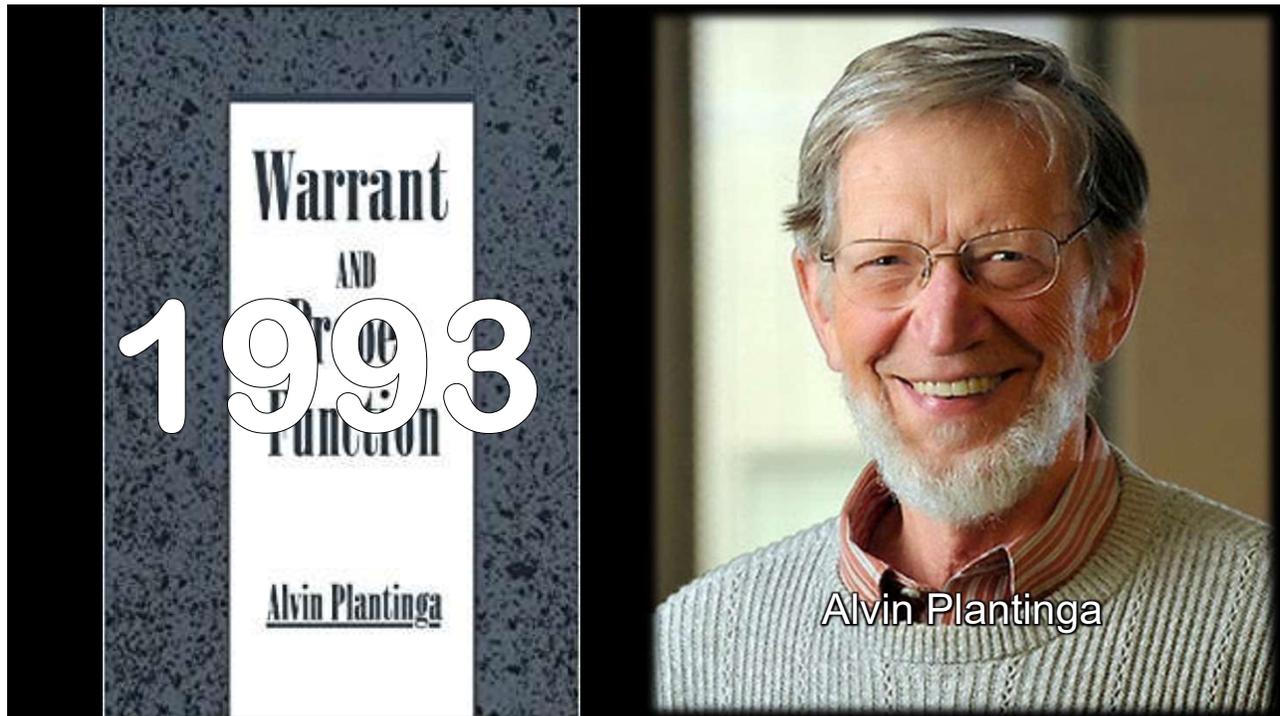
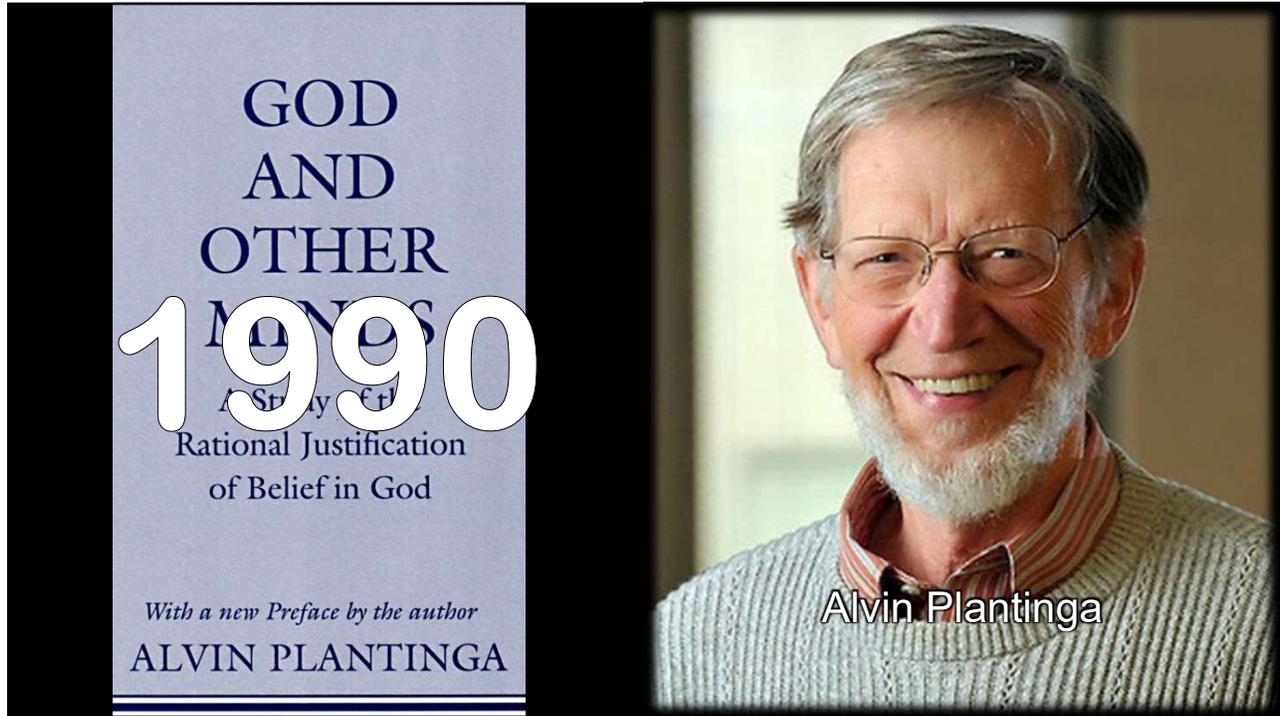


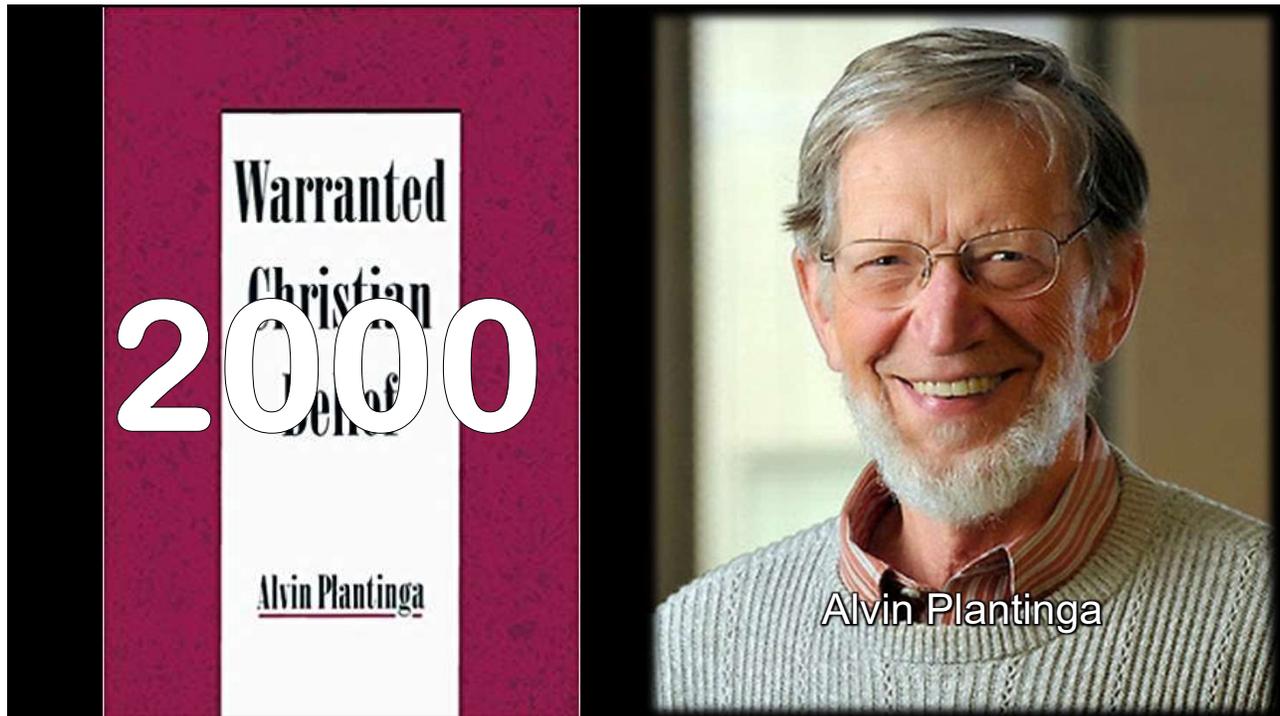
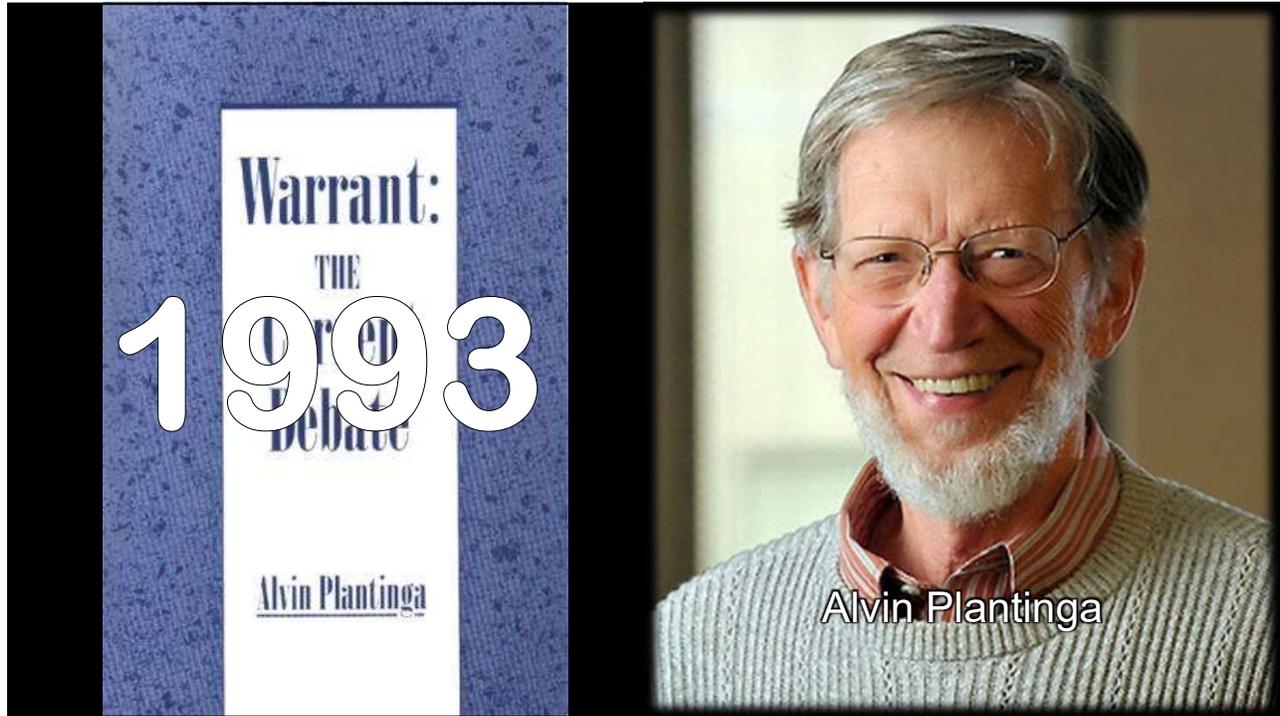


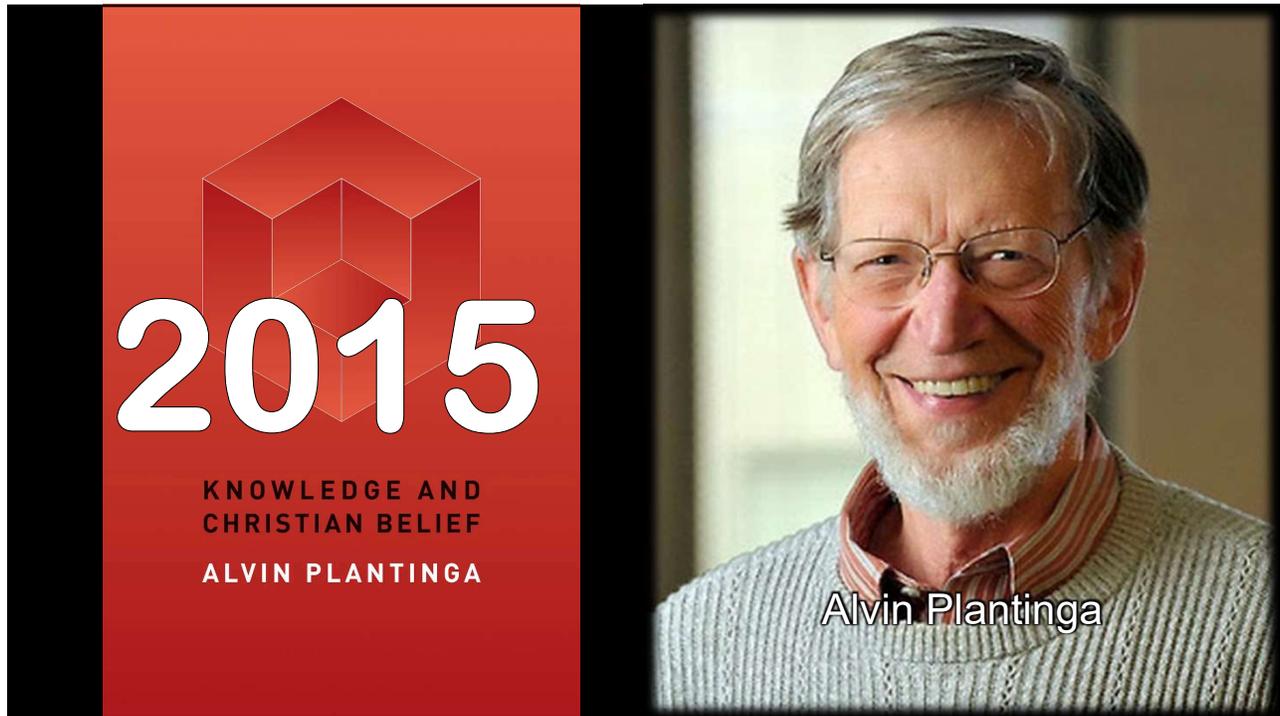
Michael Martin
(1932-2015)



Alvin Plantinga





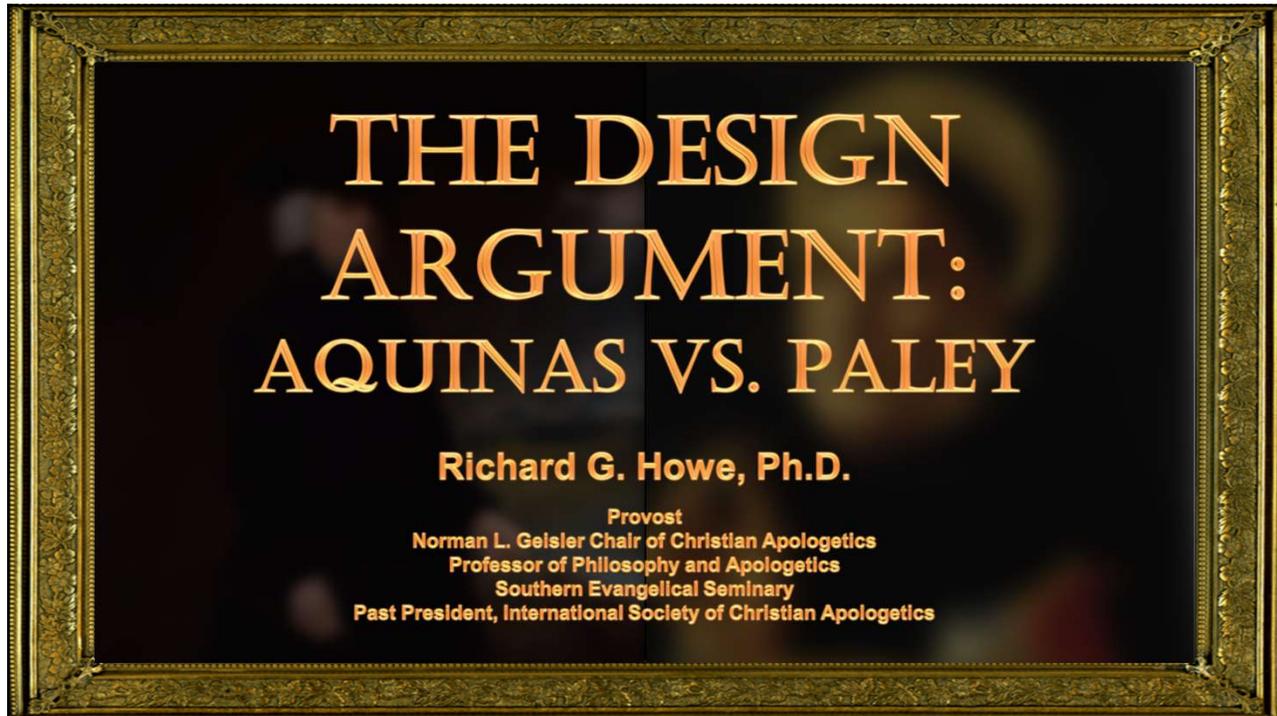


COSMOLOGICAL: based on the existence of the universe (cosmos)

DESIGN: based on the orderly or organized aspects of the universe; largely scientific evidence

TELEOLOGICAL: based on the directedness (teleology) of natural objects; philosophical evidence





COSMOLOGICAL: based on the existence of the universe (cosmos)

DESIGN: based on the orderly or organized aspects of the universe; largely scientific evidence

TELEOLOGICAL: based on the directedness (teleology) of natural objects; philosophical evidence

ONTOLOGICAL: based on the concept of God as the greatest conceivable being

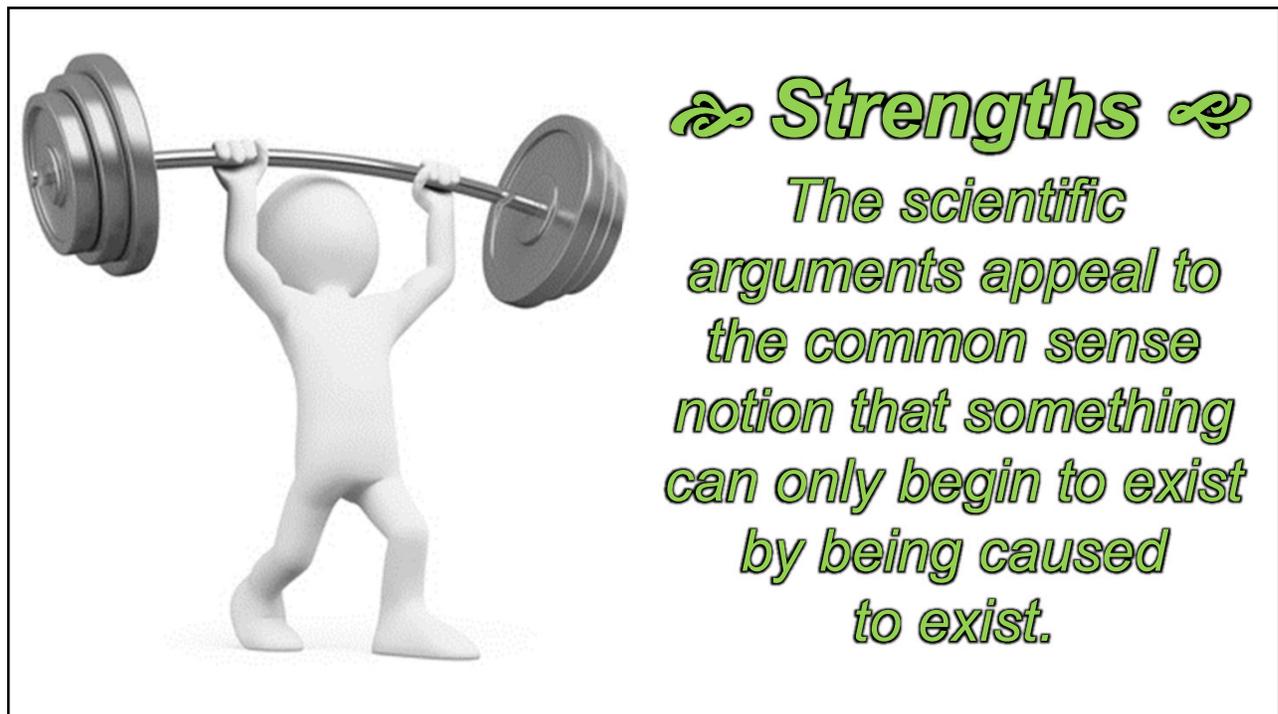
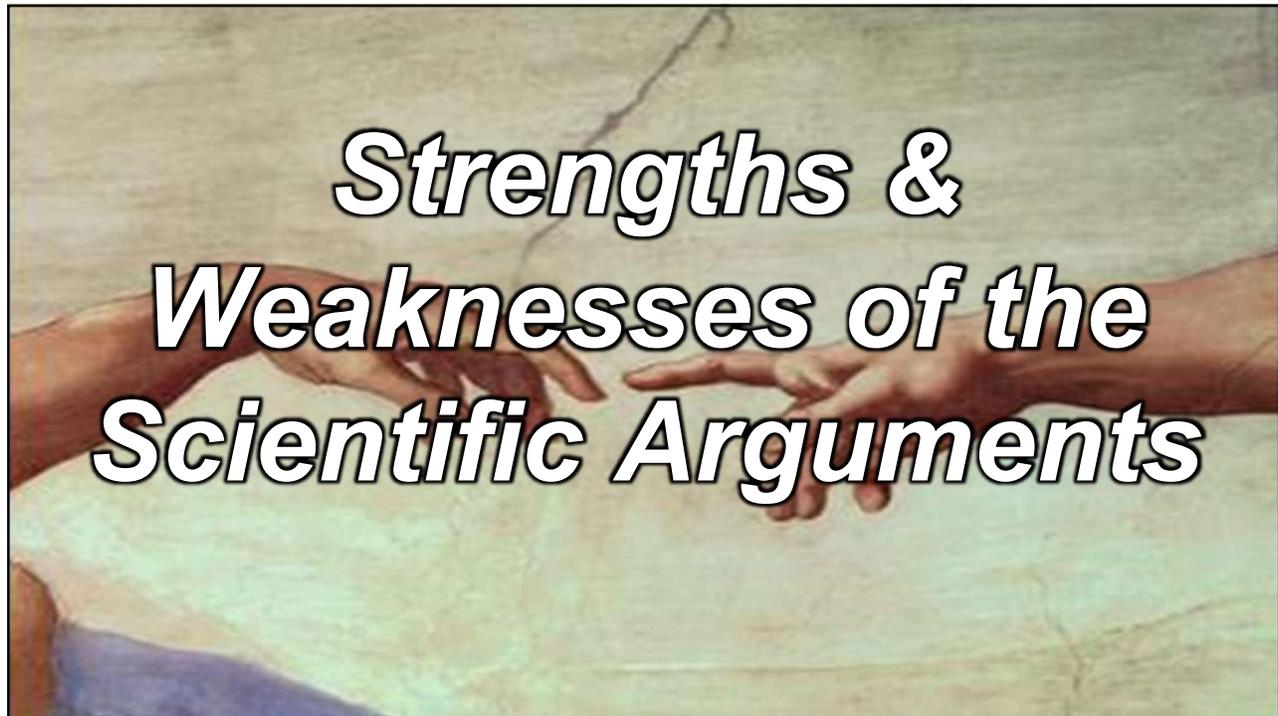
MORAL: based on the existence of moral truths



- ❖ *God as the cause of the beginning of the universe (i.e., the coming into existence of the universe): **Scientific***
- ❖ *God as the cause of the current existing of the universe: **Philosophical***
- ❖ *God as the cause of the design of the universe: **Scientific***
- ❖ *God as the cause of the teleology of the universe: **Philosophical***

Generally, the arguments utilizing the scientific evidence take the form of an "argument to the best explanation."

In contrast, the arguments utilizing the philosophical "evidence" seek to show how the existence of God (together with the classical attributes of God) follow inexorably from the basic tenets of metaphysics.





➤ Strengths ➤

They also appeal to the common sense notion that anything that exhibits sufficient evidence of design is likely caused by an intelligence.



➤ Strengths ➤

These arguments benefit from the academic and social clout enjoyed by the contemporary natural sciences.



∞ Strengths ∞

They generally avoid trafficking in the technicalities of academic philosophy which are less familiar than the general categories of the sciences.



∞ Weaknesses ∞

Without further arguments, the scientific arguments do not demonstrate that the cause of the universe still exists.



Weaknesses

Without further arguments, they do not demonstrate that the cause of the universe is God (i.e., that the cause has the attributes of classical theism).



Weaknesses

Without further arguments, they do not demonstrate that the cause of the universe is God (i.e., that the cause has the attributes of classical theism).



Weaknesses

Without further arguments, they do not demonstrate that the cause of the universe is good (even apart from the other attributes of classical theism).



My Weaknesses

Certain aspects of the science are disputed.

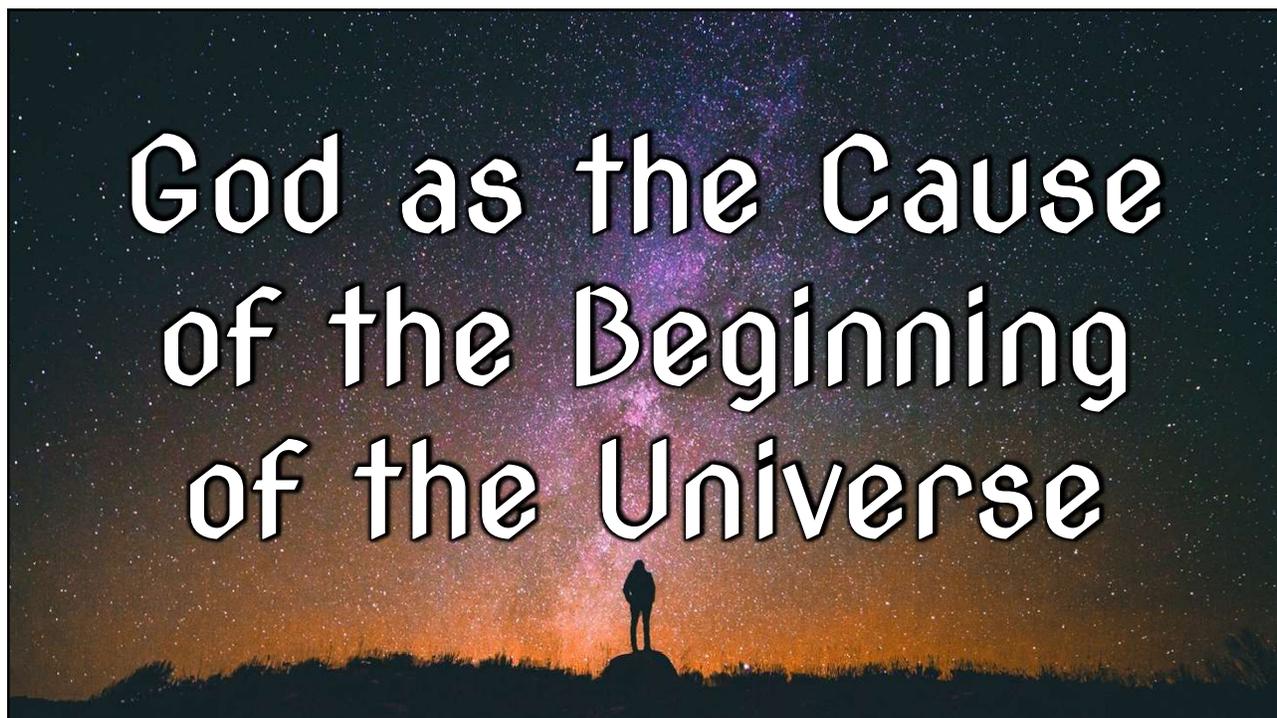
Such disputes can invariably get technical and, thus, are beyond the knowledge of the non-scientist like me.

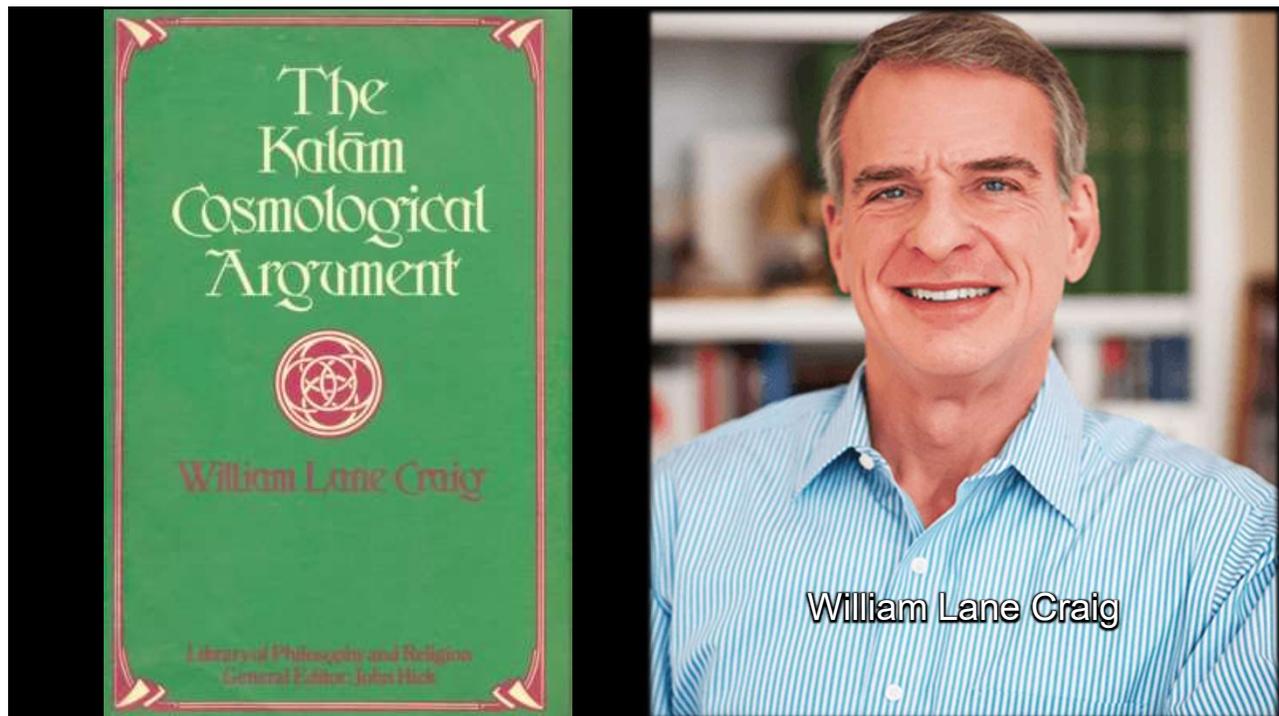
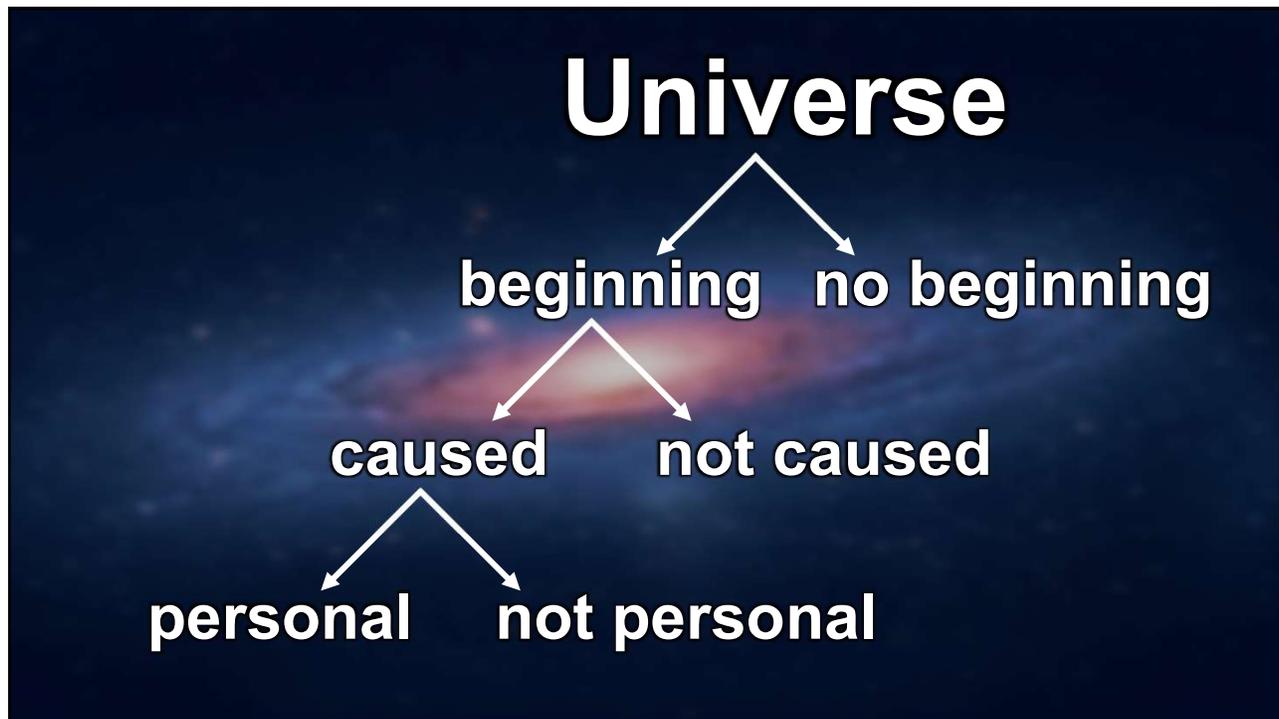


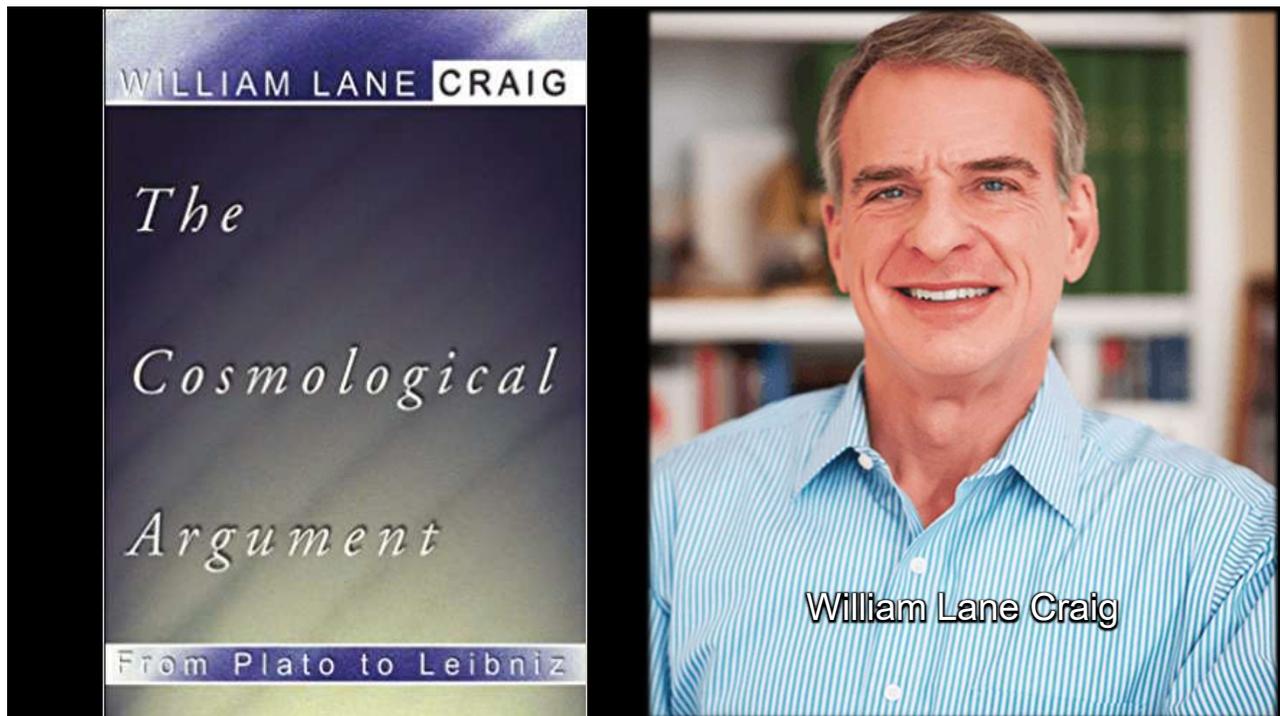
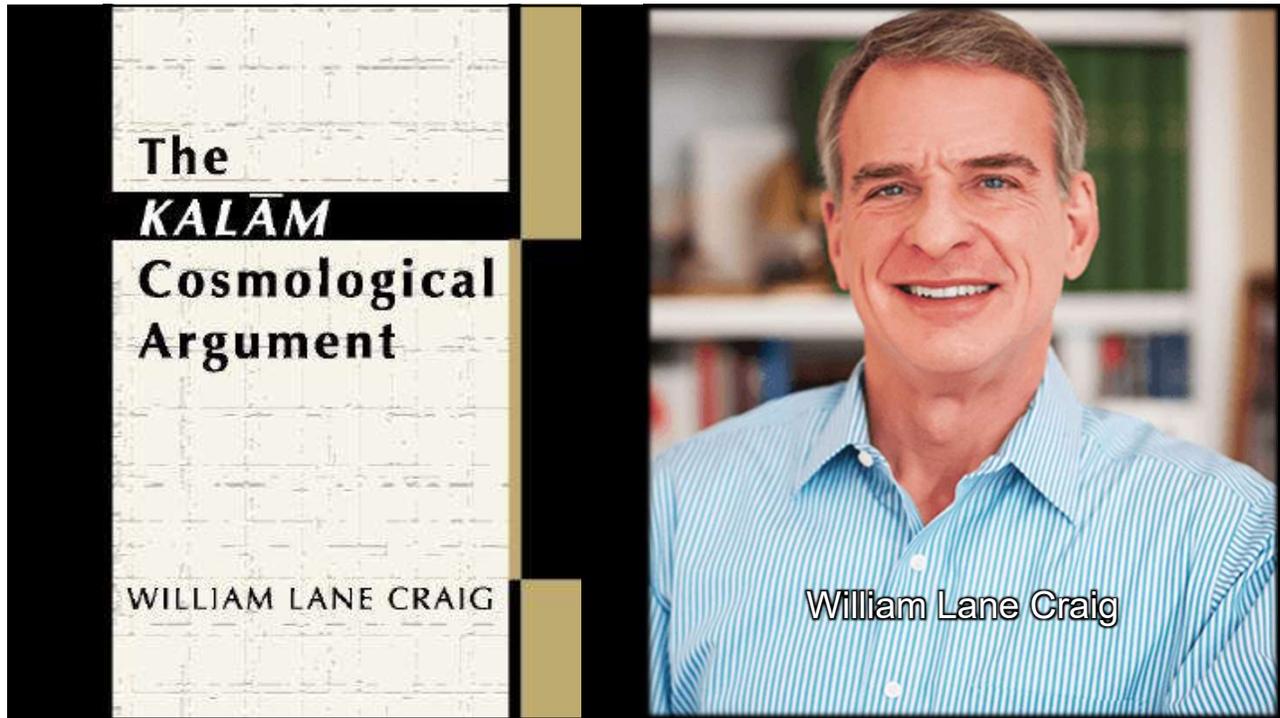
☞ My Weaknesses ☞

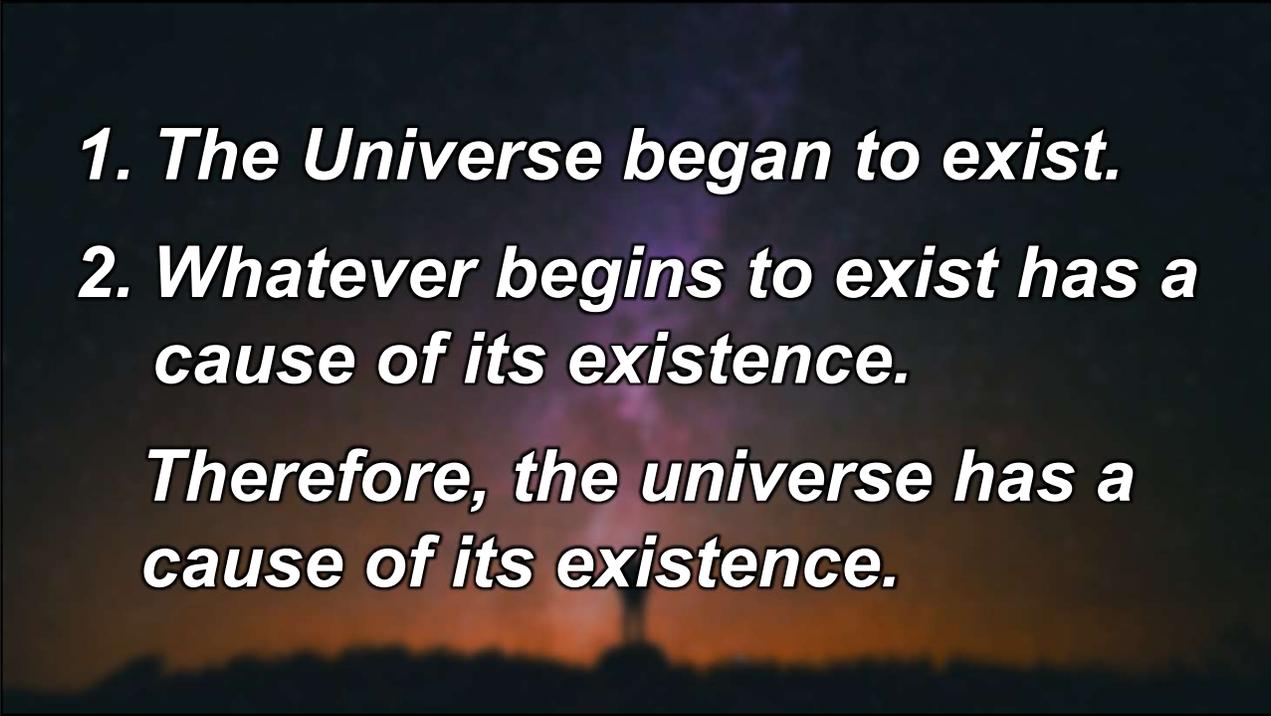
Granted, certain aspects of the philosophy are disputed as well.

However, as a philosopher, I am more accustomed to engaging the issue philosophically rather than scientifically.

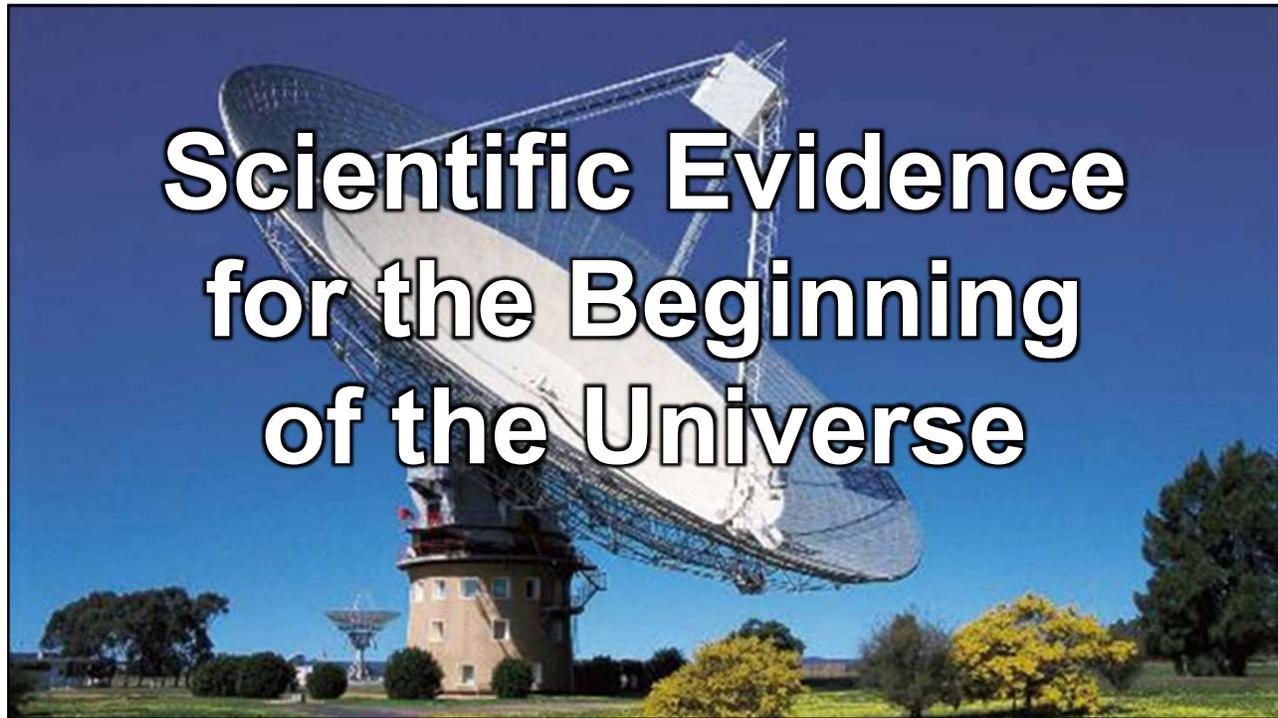






- 
- 1. The Universe began to exist.***
 - 2. Whatever begins to exist has a cause of its existence.***
- Therefore, the universe has a cause of its existence.***

- 
- 1. The Universe began to exist.***



- ✓ *Big Bang Theory*
- ✓ *Expanding Universe*
- ✓ *Second Law of Thermodynamics*

The Big Bang Theory

∞ Definition ∞

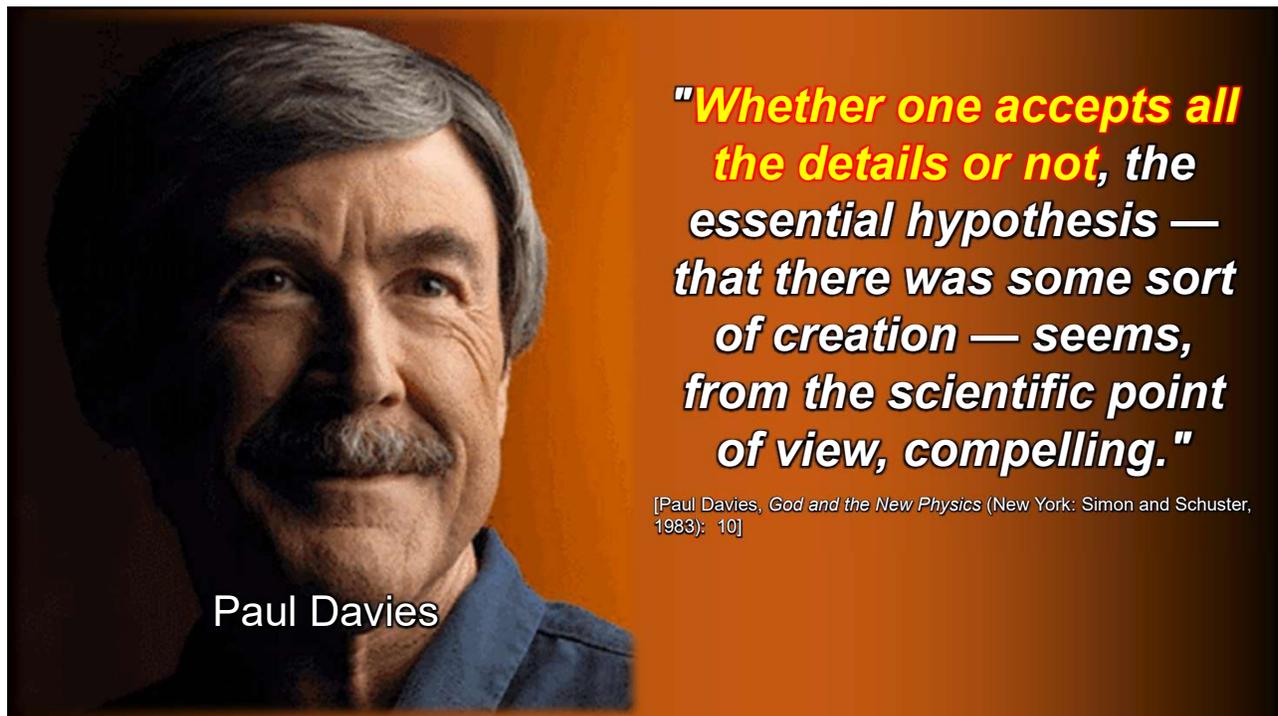
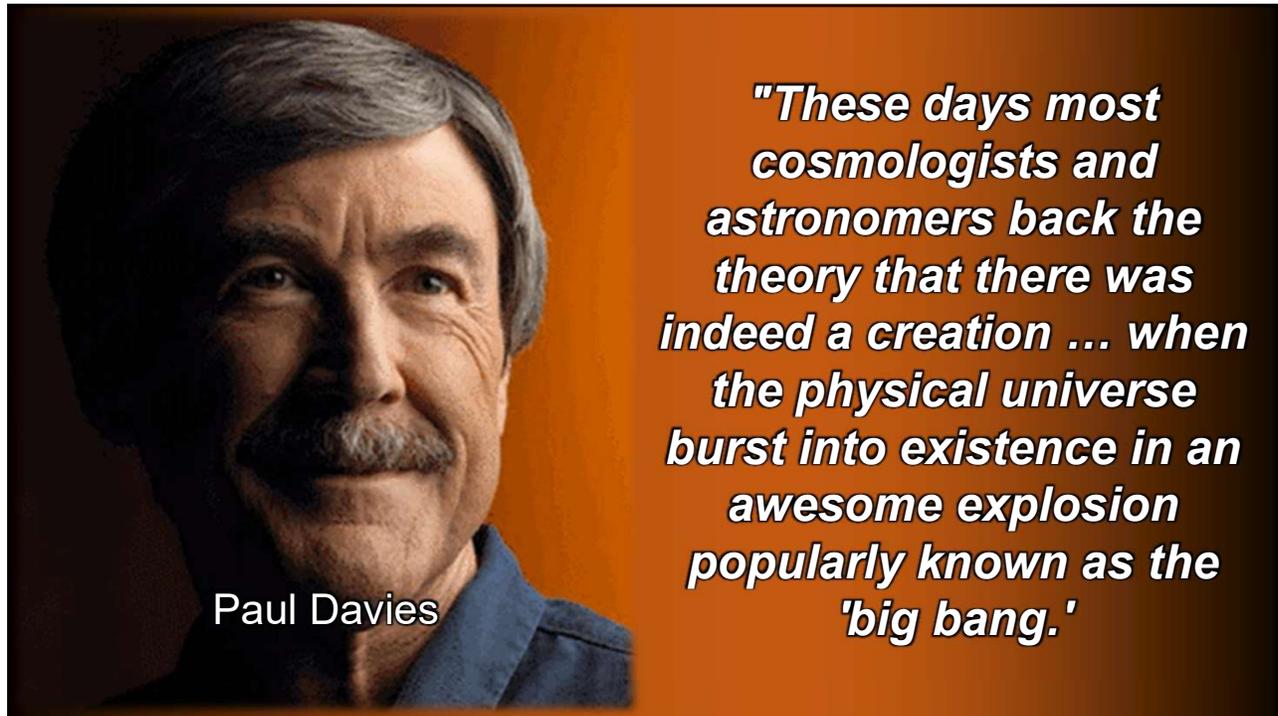
Scientists maintain that the universe began in a colossal explosion a finite time ago.

∞ Significance ∞

The universe has not existed from eternity, according to the Big Bang Theory.

∞ Significance ∞

Therefore, the universe began to exist a finite time ago.





Steven Weinberg

"In the beginning there was an explosion. Not an explosion like those familiar on Earth . . . but an explosion which occurred simultaneously everywhere, filling all space from the beginning"

[Steven Weinberg, *The First Three Minutes* (Fontana Paperbacks, 14) available at <https://www.zuj.edu.jo/download/the-first-three-minutes-a-modern-view-of-the-origin-of-the-universe-s-weinberg-pdf/>, accessed 08/14/24]

"Recent developments in astronomy have implications that may go beyond their contribution to science itself."



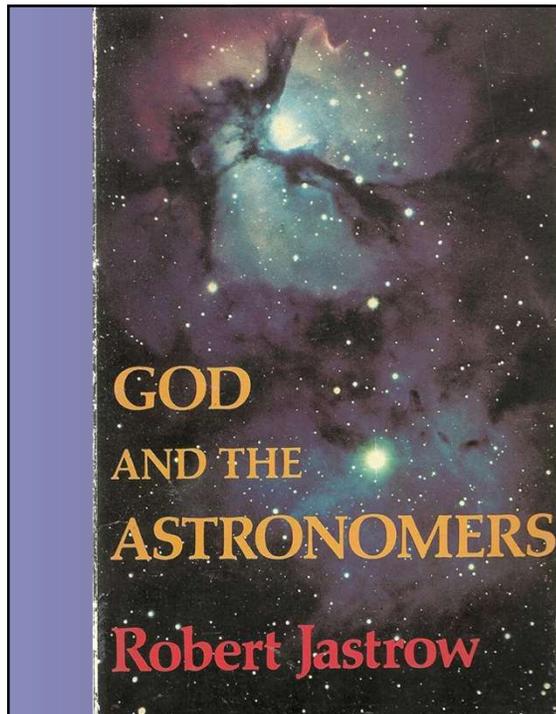
Robert Jastrow
(1925-2008)

*"In a nutshell,
astronomers, studying
the Universe through their
telescopes, have been
forced to the conclusion
that the world began
suddenly, in a moment of
creation, as the product
of unknown forces."*

[Robert Jastrow "Message from Professor Robert Jastrow,"
<http://www.leaderu.com/truth/1truth18b.html>, accessed 08/14/24]



Robert Jastrow
(1925-2008)

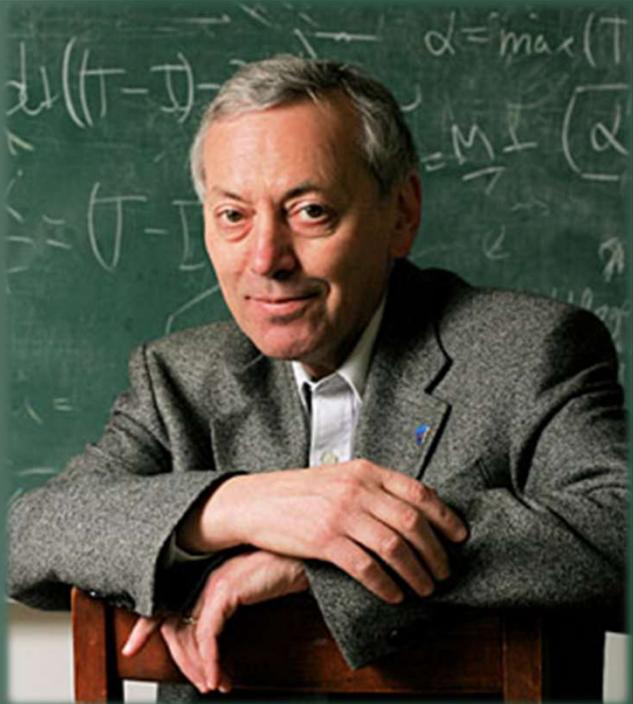


Robert Jastrow
(1925-2008)



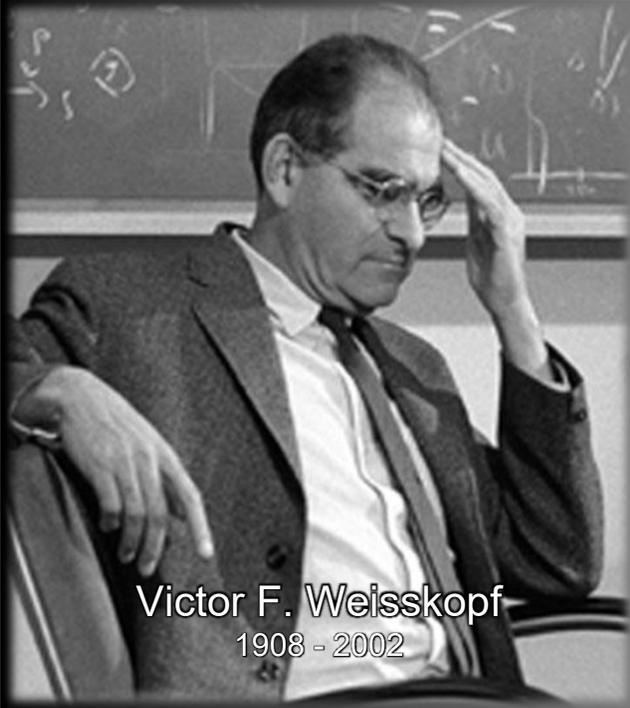
"Almost everyone now believes that the universe, and time itself, had a beginning at the Big Bang."

[Steven W. Hawking and Roger Penrose, *The Nature of Space and Time* (Princeton, N.J.: Princeton University Press, 1996), <https://arxiv.org/pdf/hep-th/9409195>, accessed 08/214/24]



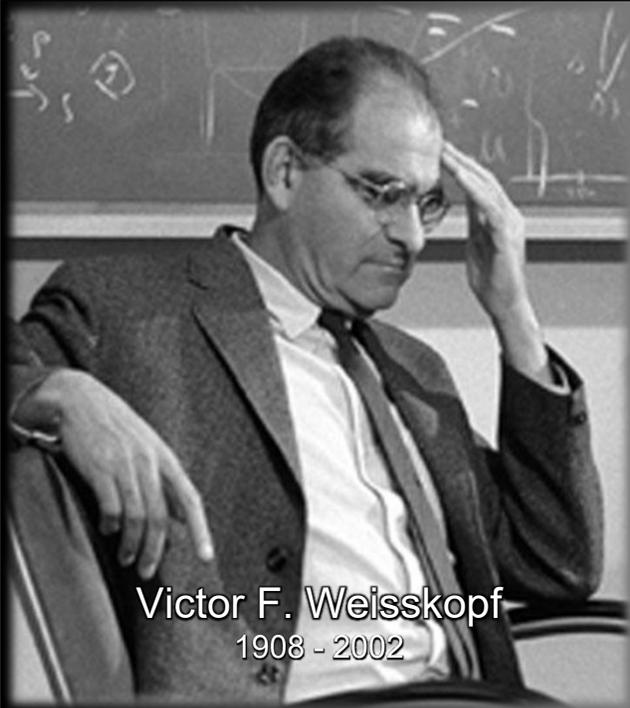
"With the proof now in place, cosmologists can no longer hide behind the possibility of a past-eternal universe. There is no escape, they have to face the problem of a cosmic beginning."

[Alexander Vilenkin, *Many Worlds in One: The Search for Other Universes* (New York: Hill and Wang, 2006), p.176]



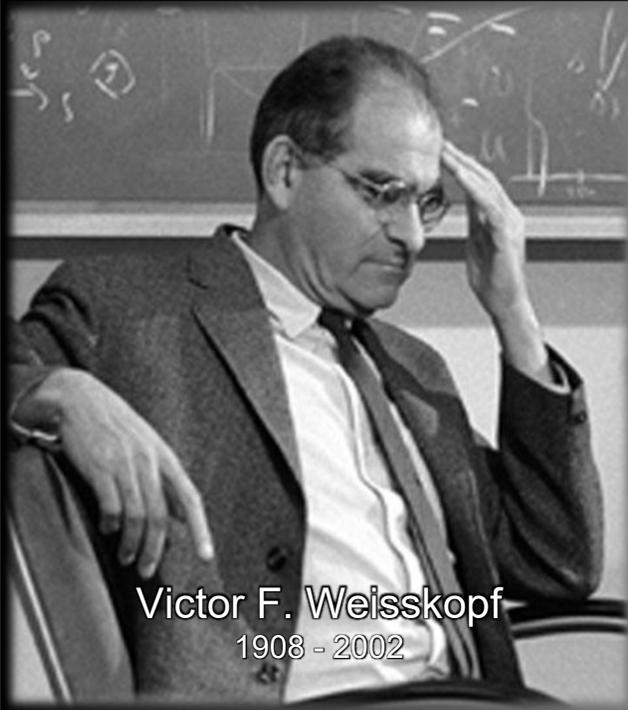
Victor F. Weisskopf
1908 - 2002

"The question of the origin of the universe is one of the most exciting topics for a scientist to deal with. It reaches far beyond its purely scientific significance, since it is related to human existence, to mythology, and to religion. . . ."



Victor F. Weisskopf
1908 - 2002

"It hits us in the heart, as it were. The origin of the universe can be talked about not only in scientific terms, but also in poetic and spiritual language, an approach that is complementary to the scientific one."



"Indeed, the Judeo-Christian tradition describes the beginning of the world in a way that is surprisingly similar to the scientific model."

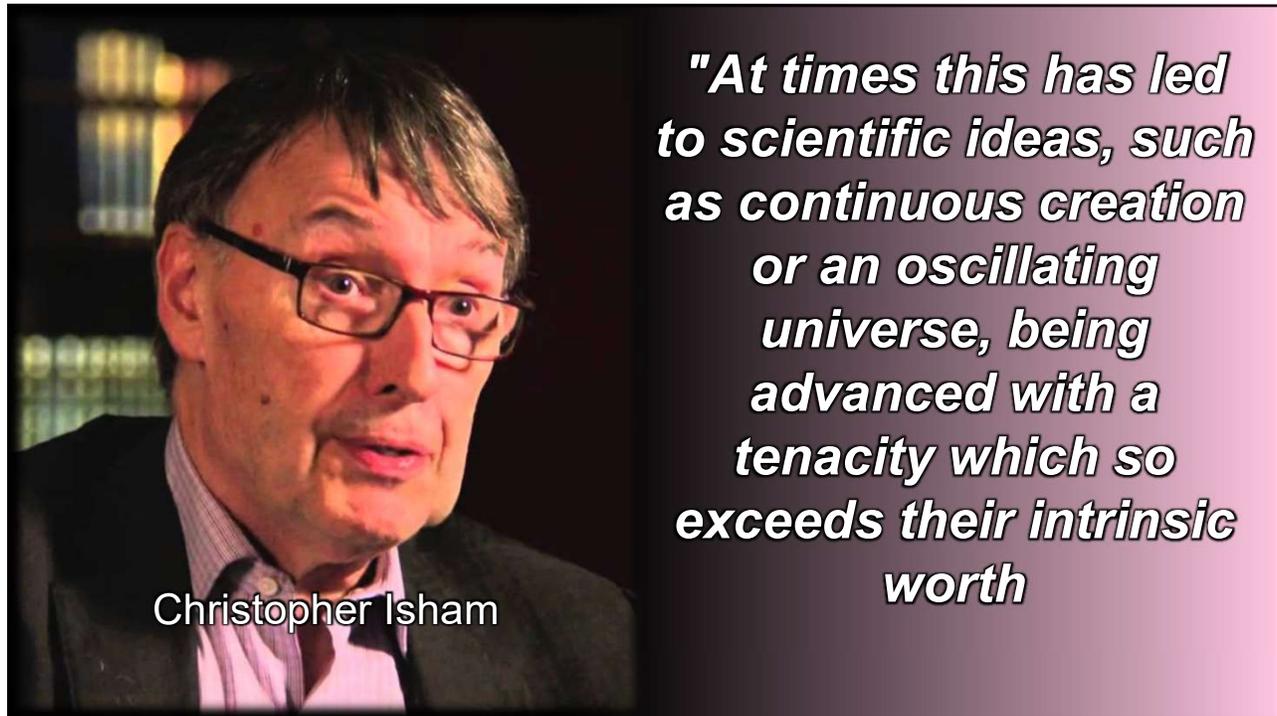
[Victor F. Weisskopf, "The Origin of the Universe," *American Scientist*, Sep.-Oct. 1983, 71, pp. 473-480, reprinted in *The World of Physics: A Small Library of the Literature of Physics from Antiquity to the Present*, 3 vols. (New York: Simon and Schuster, 1987), vol. 3, pp. 300, 317]

Victor F. Weisskopf
1908 - 2002



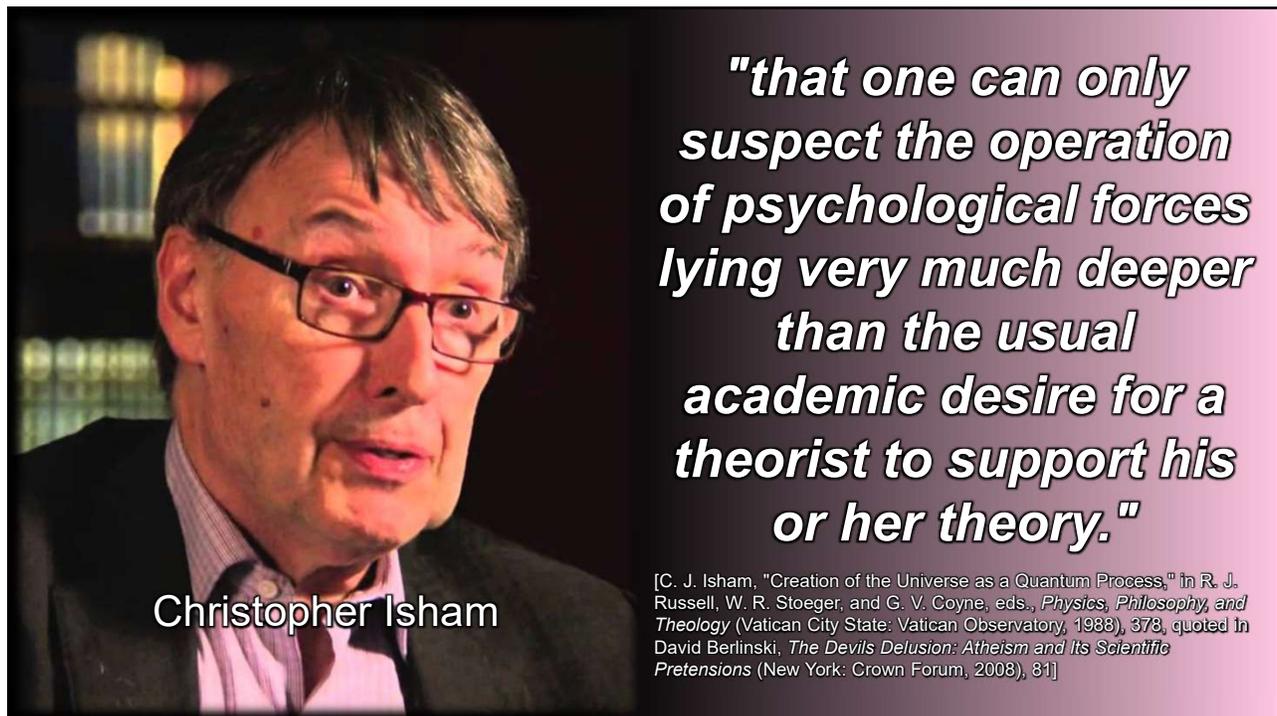
"Perhaps the best argument in favor of the thesis that the Big Bang supports theism is the obvious unease with which it is greeted by some atheist physicists."

Christopher Isham



Christopher Isham

"At times this has led to scientific ideas, such as continuous creation or an oscillating universe, being advanced with a tenacity which so exceeds their intrinsic worth"



Christopher Isham

"that one can only suspect the operation of psychological forces lying very much deeper than the usual academic desire for a theorist to support his or her theory."

[C. J. Isham, "Creation of the Universe as a Quantum Process," in R. J. Russell, W. R. Stoeger, and G. V. Coyne, eds., *Physics, Philosophy, and Theology* (Vatican City State: Vatican Observatory, 1988), 378, quoted in David Berlinski, *The Devils Delusion: Atheism and Its Scientific Pretensions* (New York: Crown Forum, 2008), 81]



The Expanding Universe

∞ Definition ∞

Scientists maintain that every object in the universe is moving away from every other object such that even space itself is expanding.

∞ Significance ∞

The universe could not have been expanding from eternity otherwise it would be infinitely dispersed (which it is not).

∞ Significance ∞

Therefore, the universe began to exist a finite time ago.

Question

What does it mean when they say the universe is expanding?

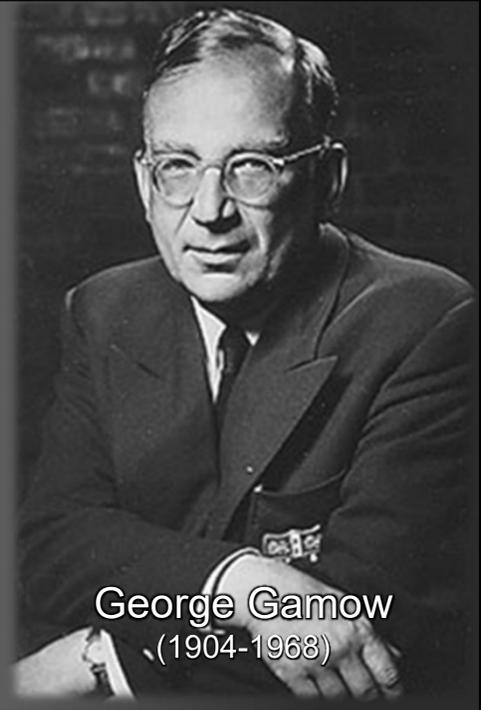
Answer

When scientists talk about the expanding universe, they mean that it has been growing ever since its beginning with the Big Bang.

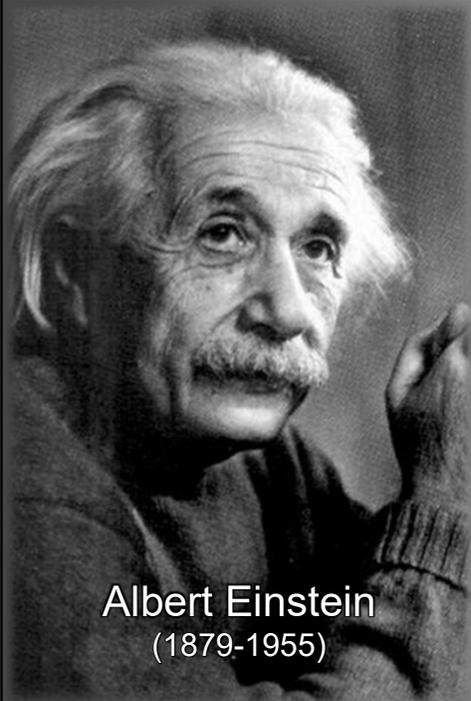
[<https://www.loc.gov/everyday-mysteries/astronomy/item/what-does-it-mean-when-they-say-the-universe-is-expanding/>, accessed 08/14/24]

"The entire space of the universe, populated by billions of galaxies, is in a state of rapid expansion, with all its members flying away from one another at high speed."

[George Gamow, "Broadening Horizons," 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. 3, 259]



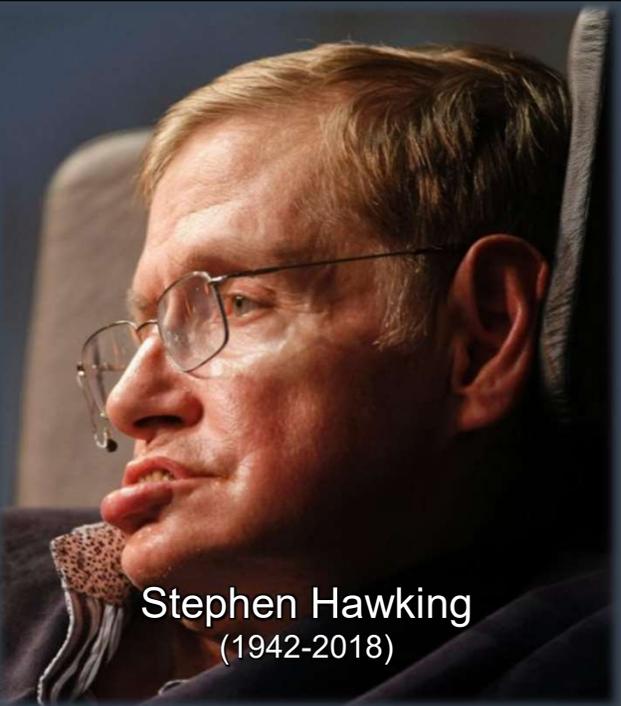
George Gamow
(1904-1968)



"Hubble's discovery can, therefore, be considered to some extent as a confirmation of the theory [of an expansion of space]."

Albert Einstein
(1879-1955)

[Albert Einstein, *Relativity: The Special and the General Theory*. (New York: Bonanza Books, 1961), 134]



"The old idea of an essentially unchanging universe that could have existed, and could continue to exist, forever was replaced by the notion of a dynamic, expanding universe that seemed to have begun a finite time ago, and that might end at a finite time in the future."

Stephen Hawking
(1942-2018)

[Steven W. Hawking, *A Brief History of Time: From the Big Bang to Black Holes* (Toronto: Bantam Books, 1988), pp. 33-34]



The Second Law of Thermodynamics

∞ Definition ∞

All isolated systems will tend toward a state of maximum disorder (entropy).

∞ Definition ∞

In an isolated system the amount of energy available to do work decreases and becomes uniform.

∞ Definition ∞

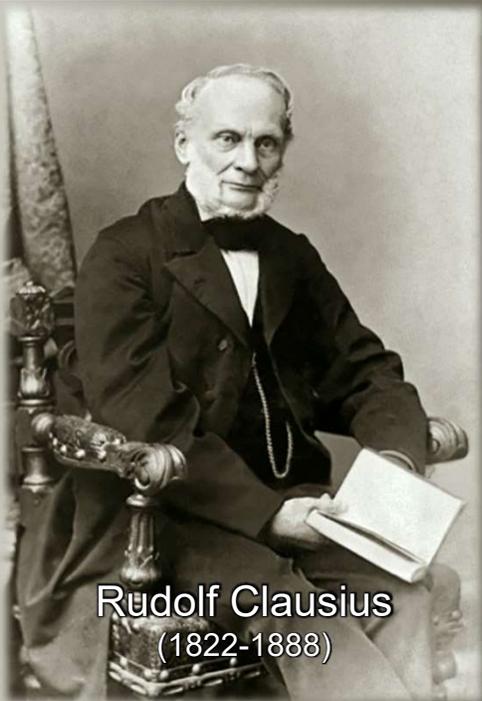
This amounts to saying that the universe is "running down."

∞ Significance ∞

The universe could not have been running down from eternity otherwise it would have run down by now (which it has not).

∞ Significance ∞

Therefore, the universe began to exist a finite time ago.

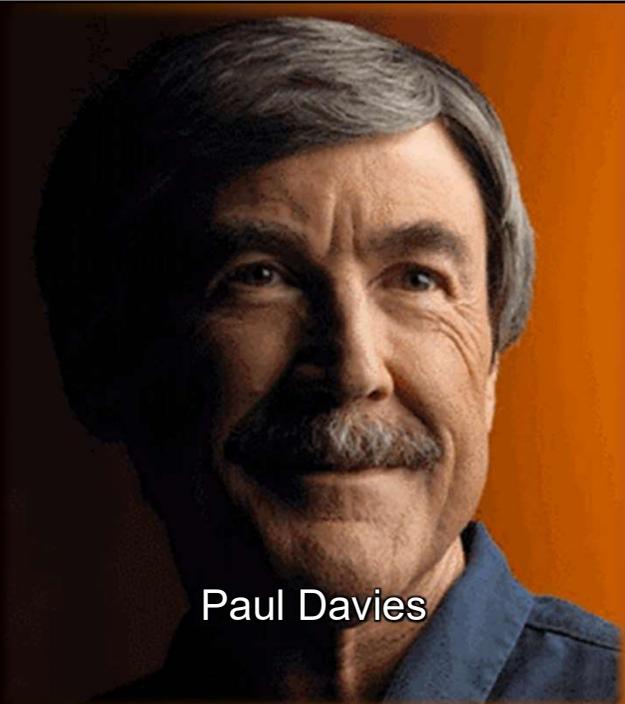


Rudolf Clausius
(1822-1888)

"We can express the fundamental laws of the universe which correspond to the two fundamental laws of the mechanical theory of heat in the following simple form:

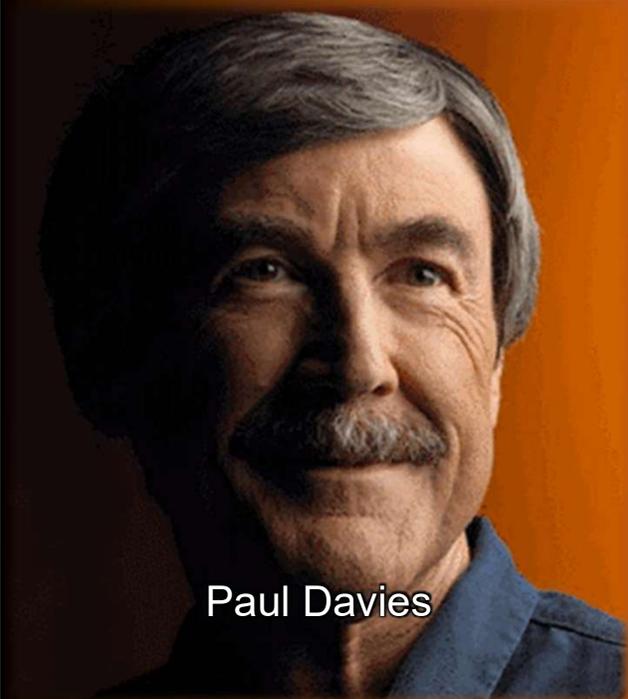
- 1. The energy of the universe is constant.***
- 2. The entropy of the universe tends toward a maximum."***

[Rudolf Clausius, "The Second Law of Thermodynamics," 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. 734]



Paul Davies

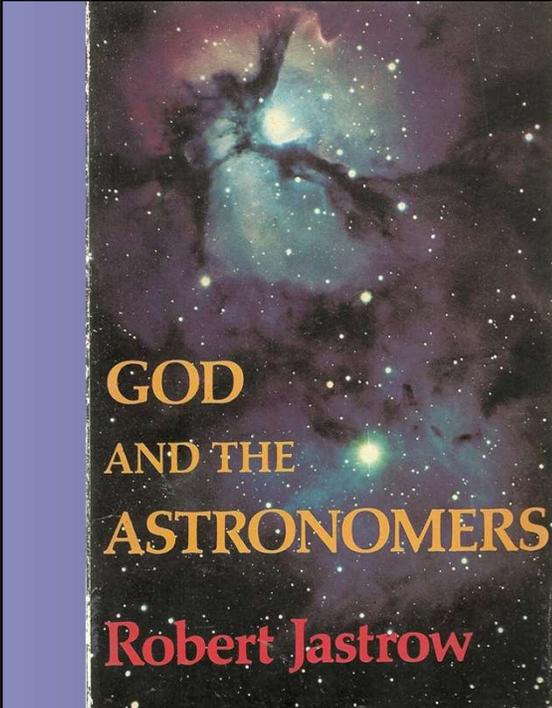
"The second law of thermodynamics ... says, roughly speaking, that in any change, the Universe becomes a slightly more disorderly place;"



Paul Davies

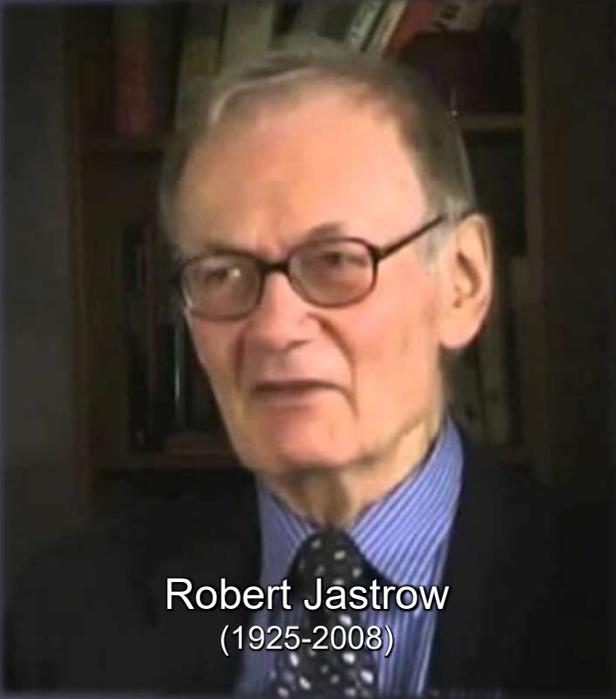
"This natural tendency towards disintegration and chaos is evident all around us: people grow old, ... stars burn out, clocks run down."

[Paul Davies, "Chance or Choice: Is the Universe an Accident?" *New Scientist* 80 (1978): 506, as cited in W. R. Bird *The Origin of Species Revisited: Theories of Evolution and of Abrupt Appearance*, 2 vols. (Nashville: Regency, 1991): vol. 1, p. 397]



**GOD
AND THE
ASTRONOMERS**

Robert Jastrow



Robert Jastrow
(1925-2008)

"The laws of thermodynamics ... [point] to one conclusion; ... that the Universe had a beginning."

[Robert Jastrow, *God and the Astronomers* (New York: W. W. Norton & Company, Inc., 1978), 111]



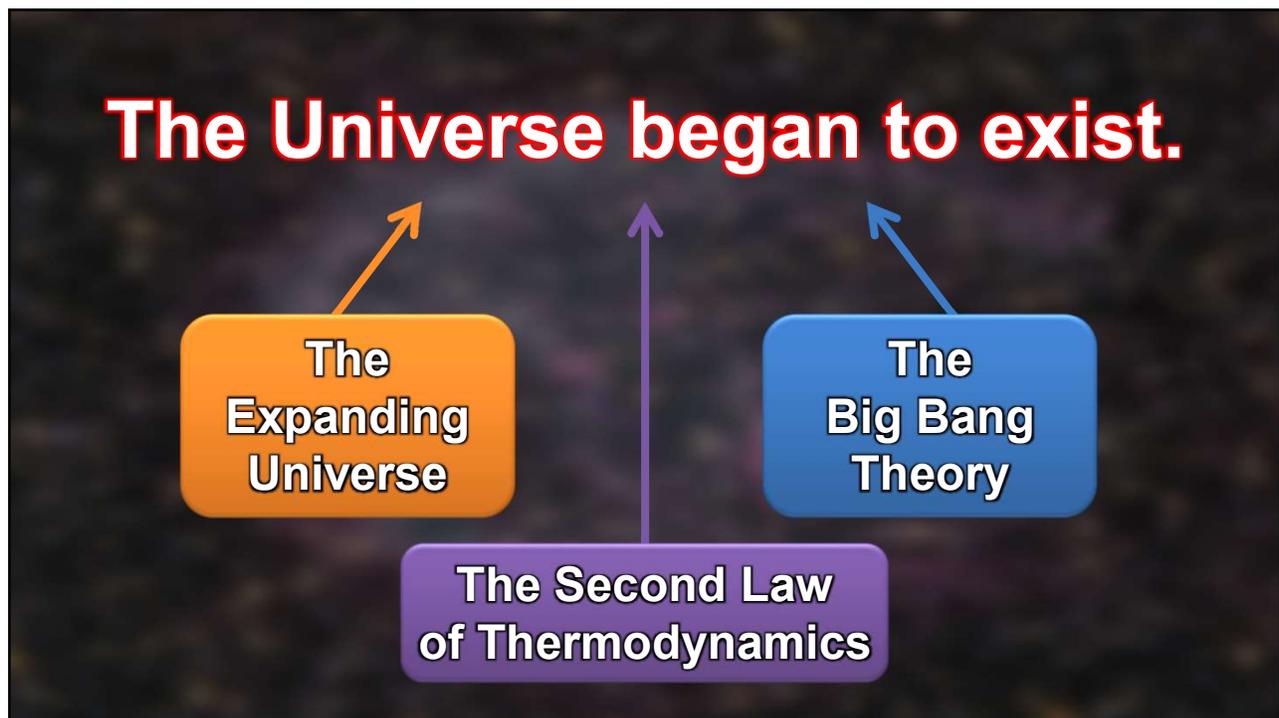
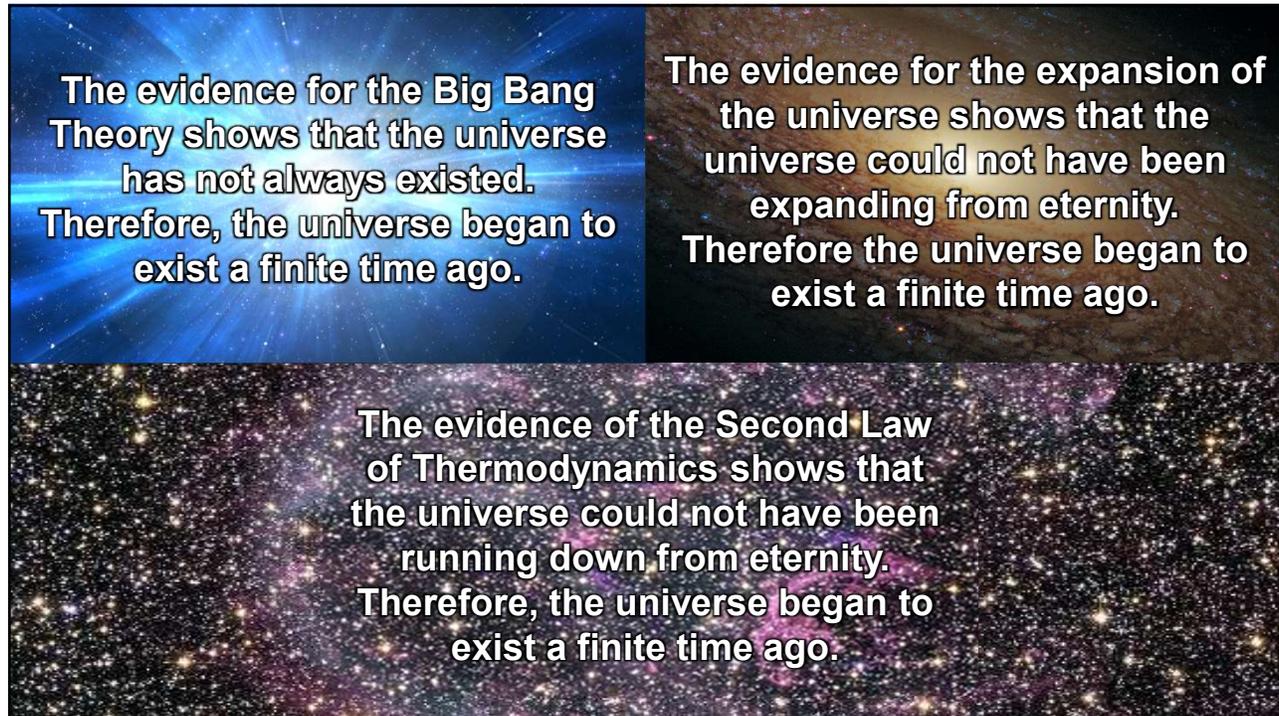
Robert Jastrow
(1925-2008)

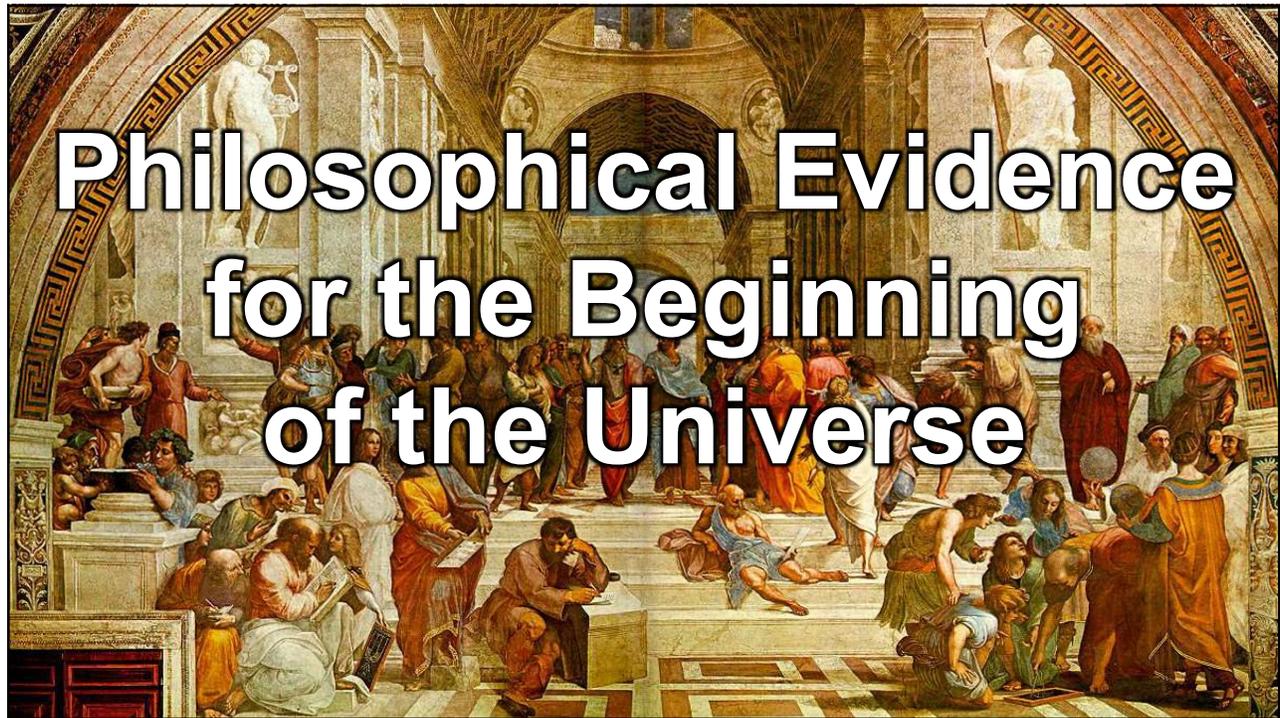
"For the scientist who has lived by his faith in the power of reason, the story ends like a bad dream. He has scaled the mountains of ignorance; he is about to conquer the highest peak; as he pulls himself over the final rock, he is greeted by a band of theologians who have been sitting there for centuries."

[Robert Jastrow, *God and the Astronomers* (New York: W. W. Norton & Company, Inc., 1978), 116]

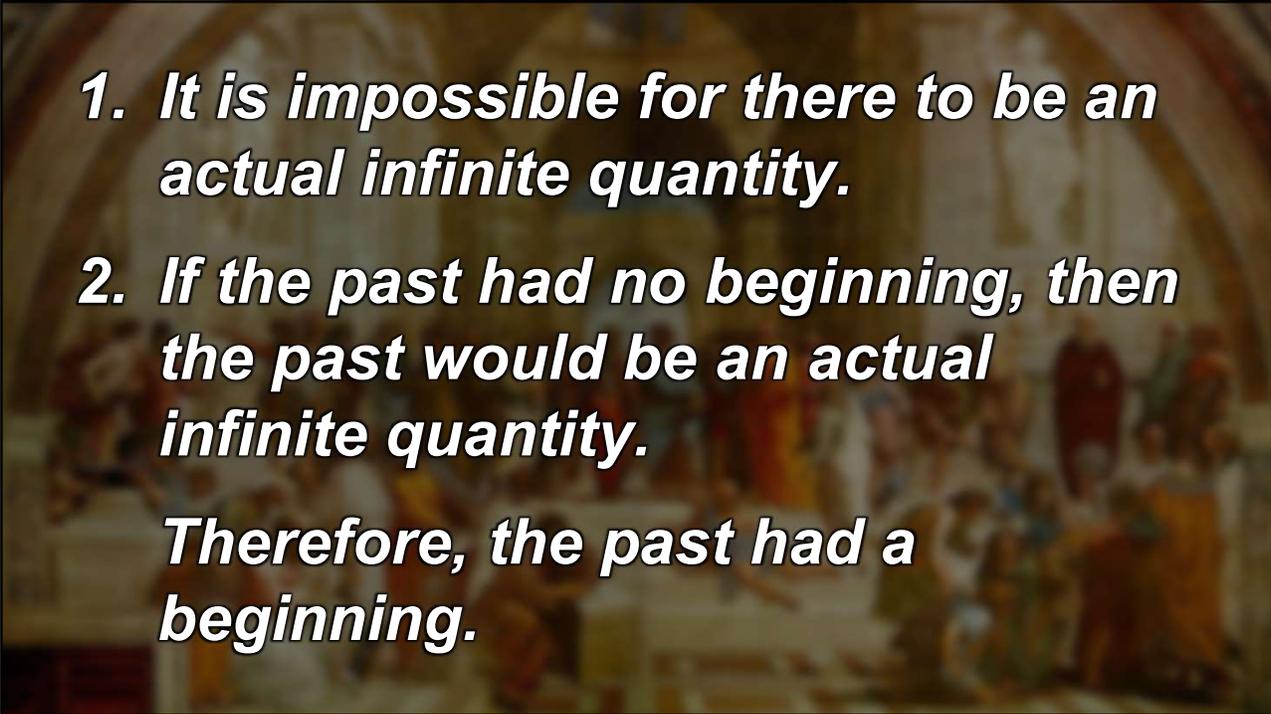


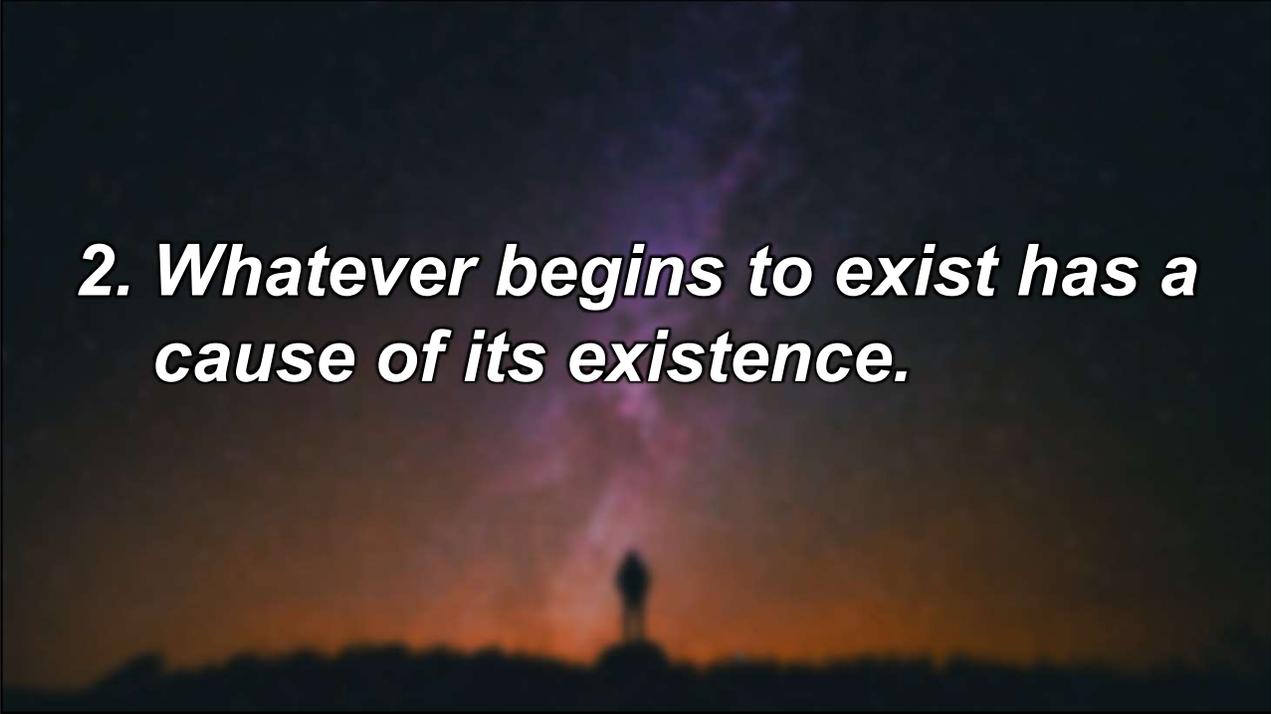
Robert Jastrow
(1925-2008)

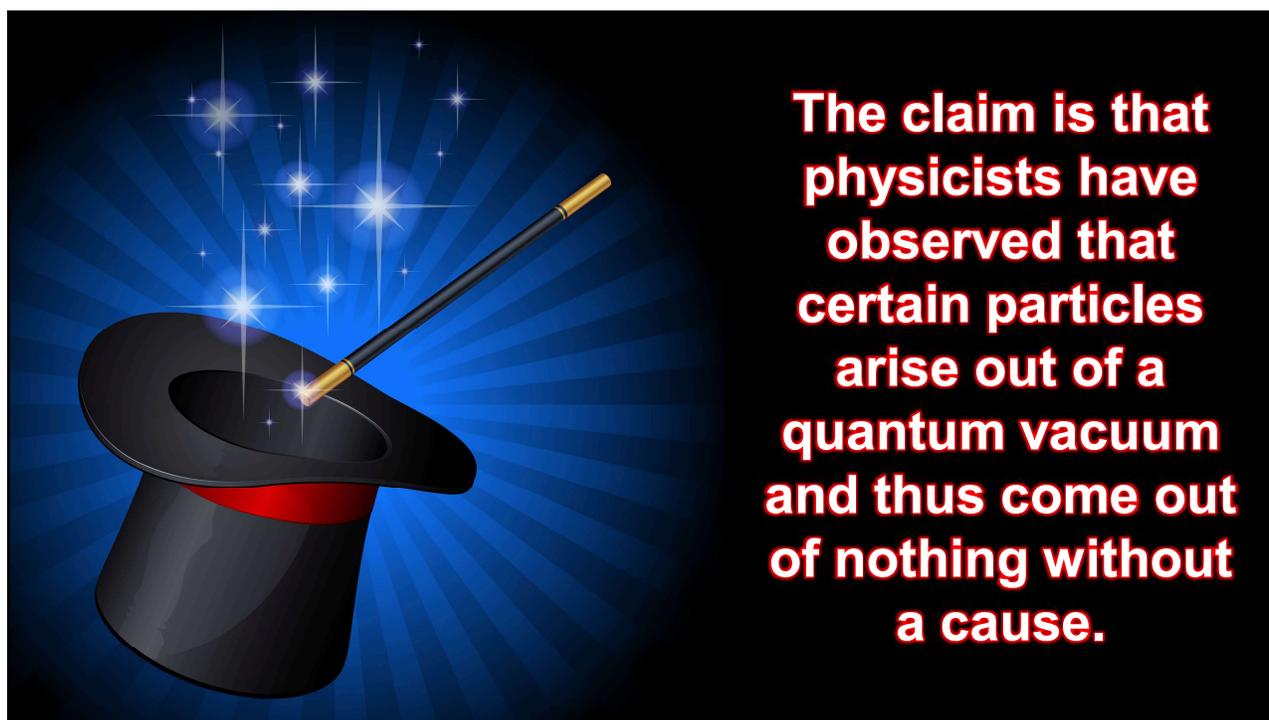




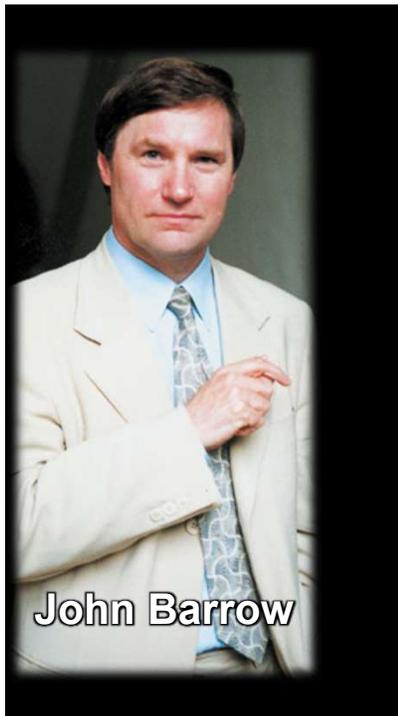
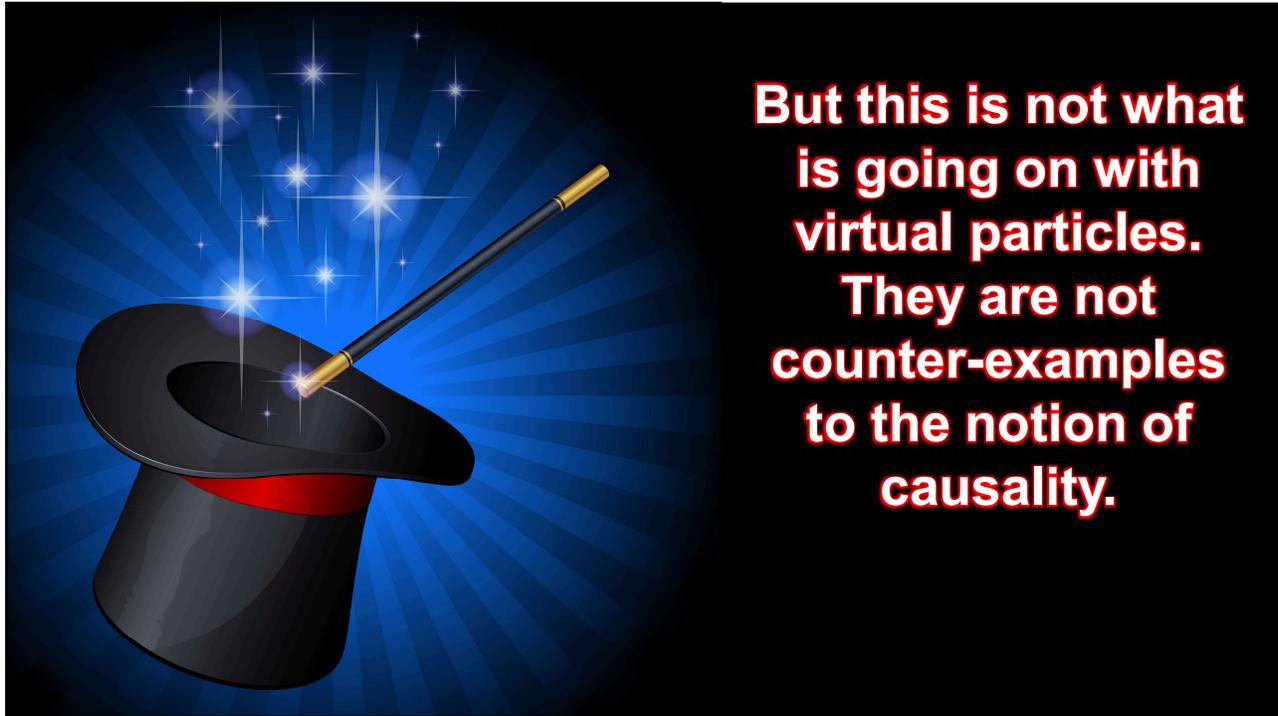
- 1. It is impossible to traverse an actual infinite length of time.*
 - 2. If the past had no beginning, then an actual infinite length of time has been traversed.*
- Therefore, the past had a beginning.*

- 
- 1. It is impossible for there to be an actual infinite quantity.***
 - 2. If the past had no beginning, then the past would be an actual infinite quantity.***
- Therefore, the past had a beginning.***

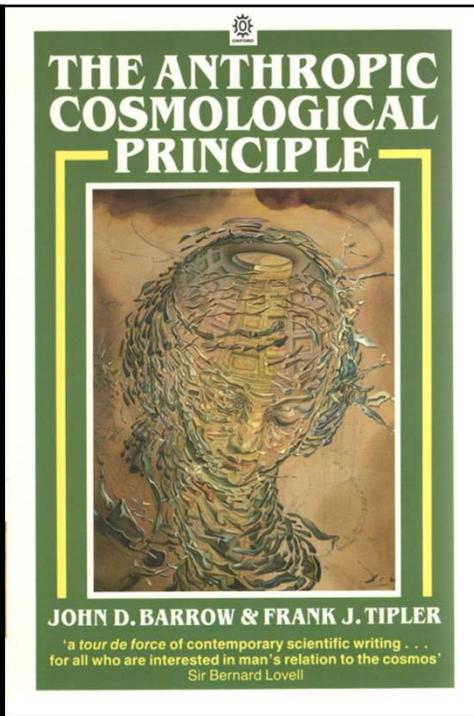
- 
- 2. Whatever begins to exist has a cause of its existence.***



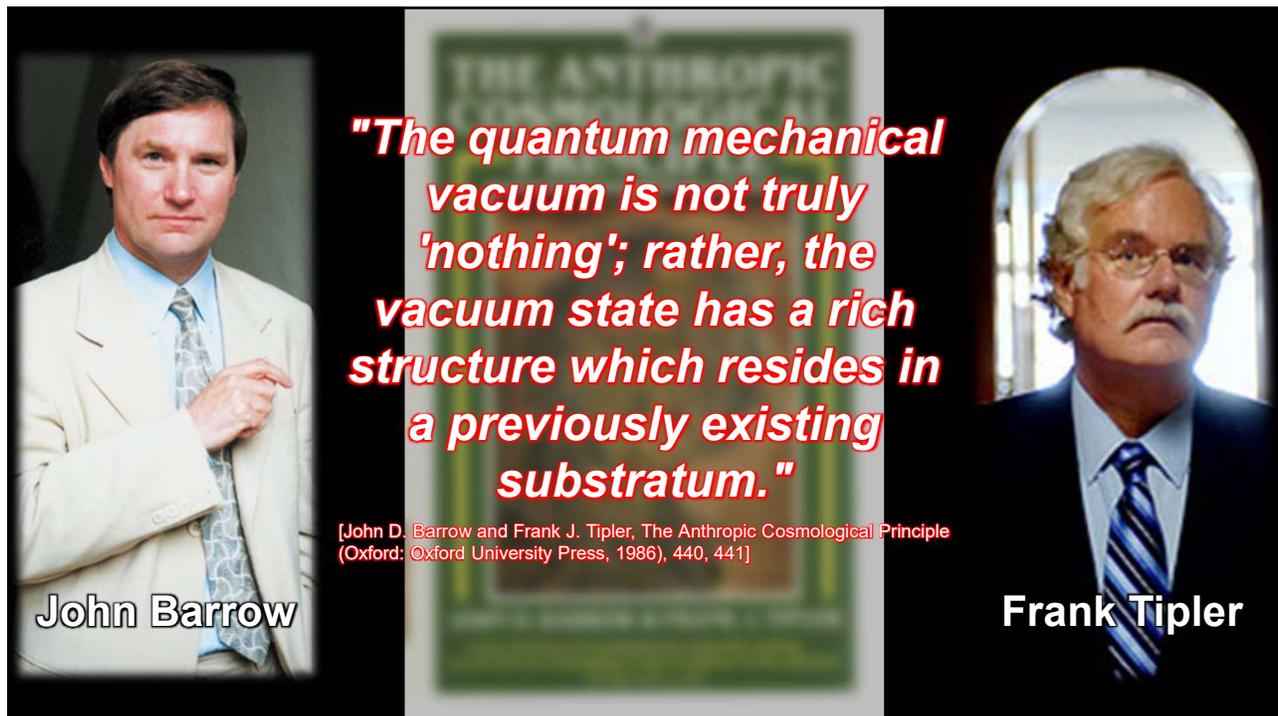
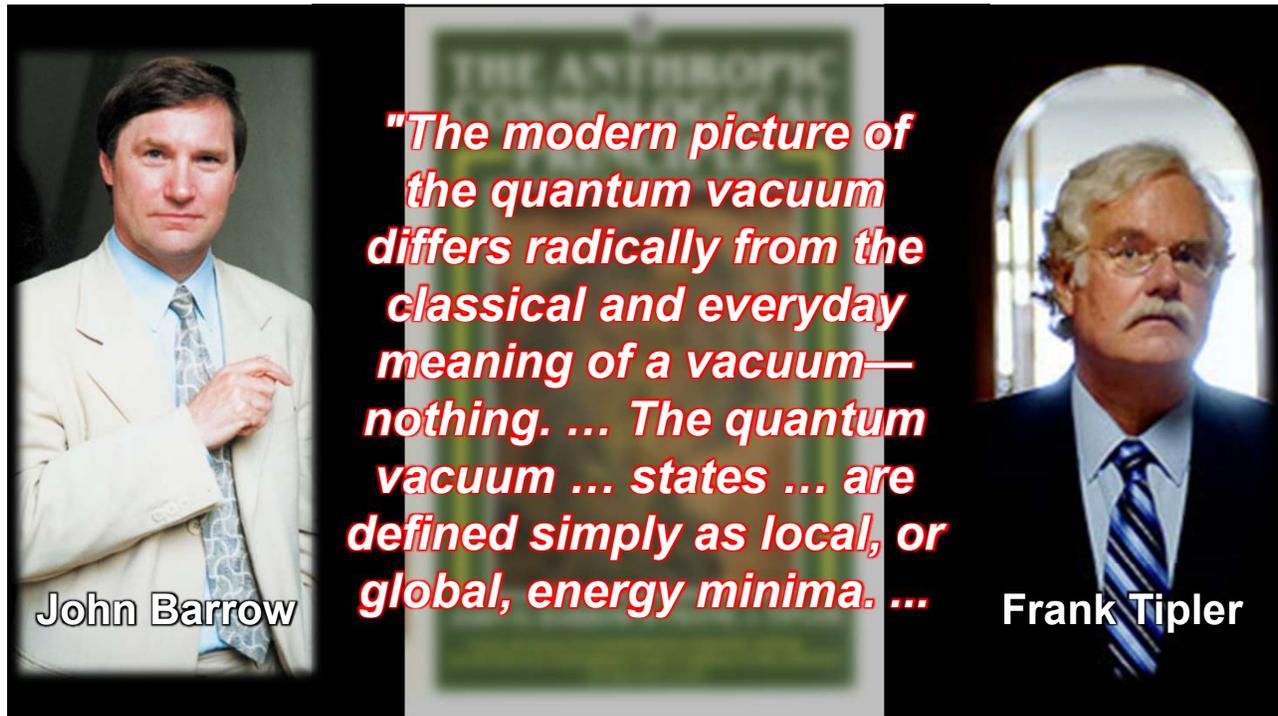
The claim is that physicists have observed that certain particles arise out of a quantum vacuum and thus come out of nothing without a cause.



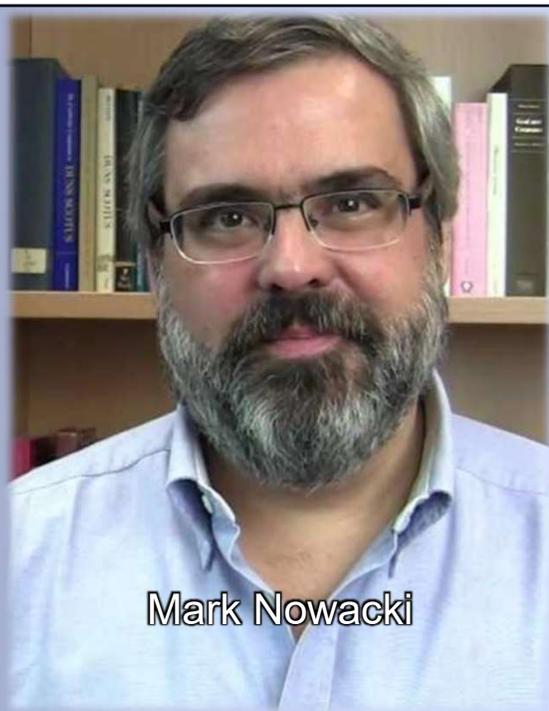
John Barrow



Frank Tipler

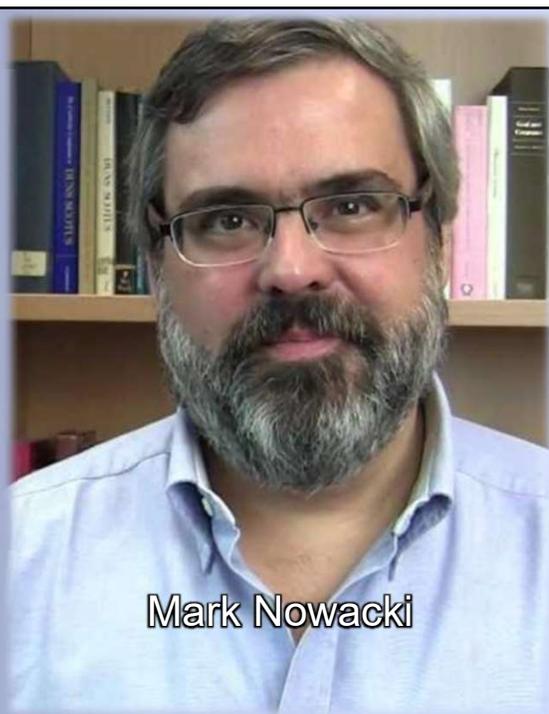


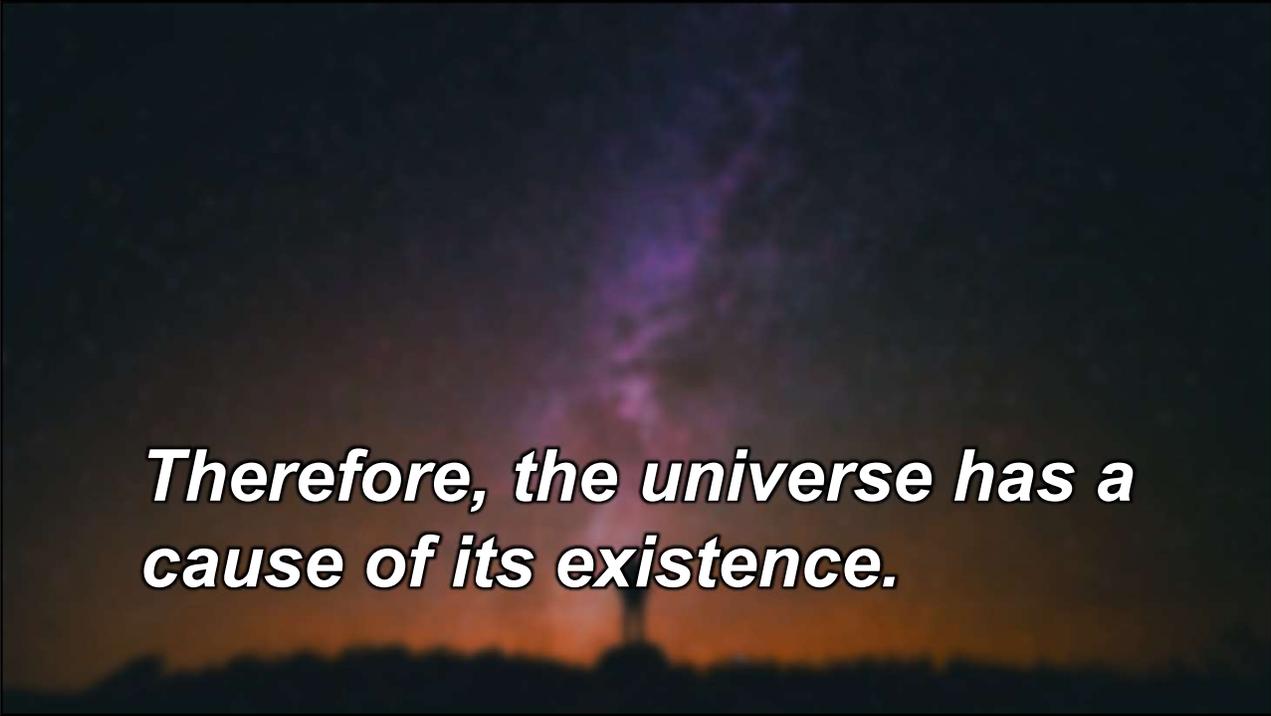
"... the quantum vacuum is very different from the void of Newton: the quantum vacuum is a soupy morass of energy and particles in constant flux; and virtual particles derive their existence from the surrounding quantum gumbo."



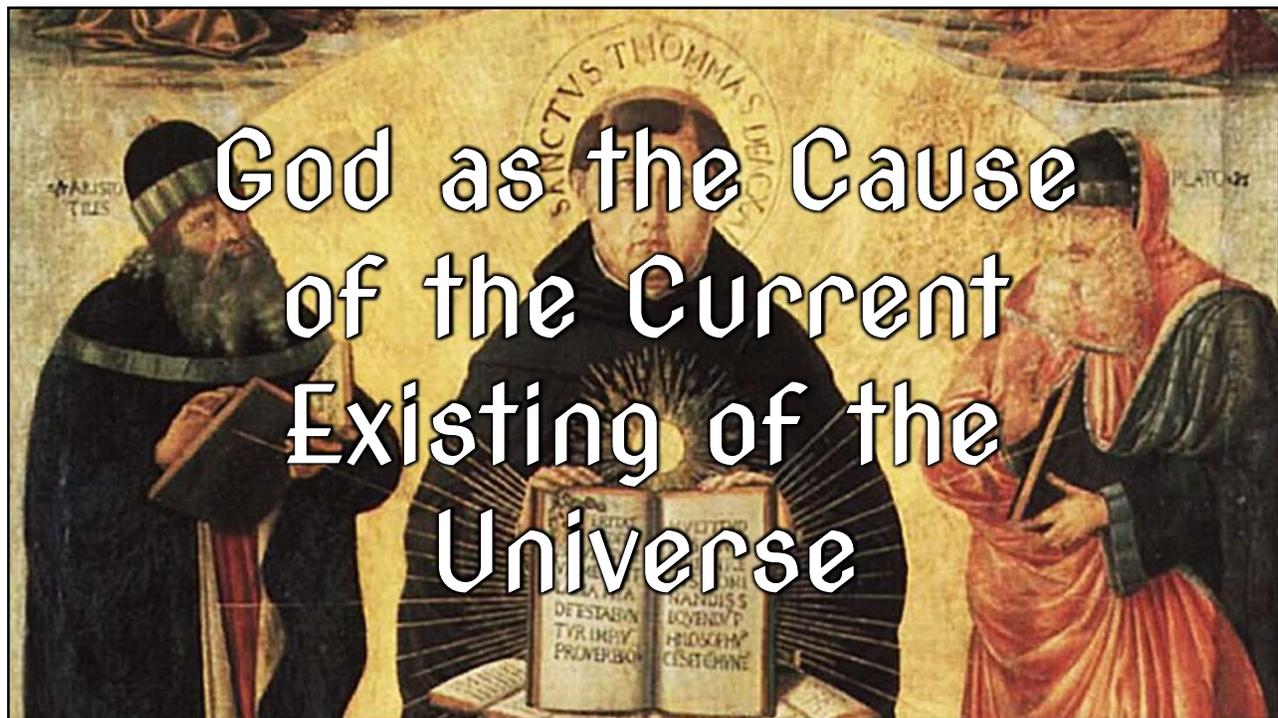
"So, whatever the full causal account of virtual particles might be, it is clear that their arising is not a case of something coming to be out of nothing."

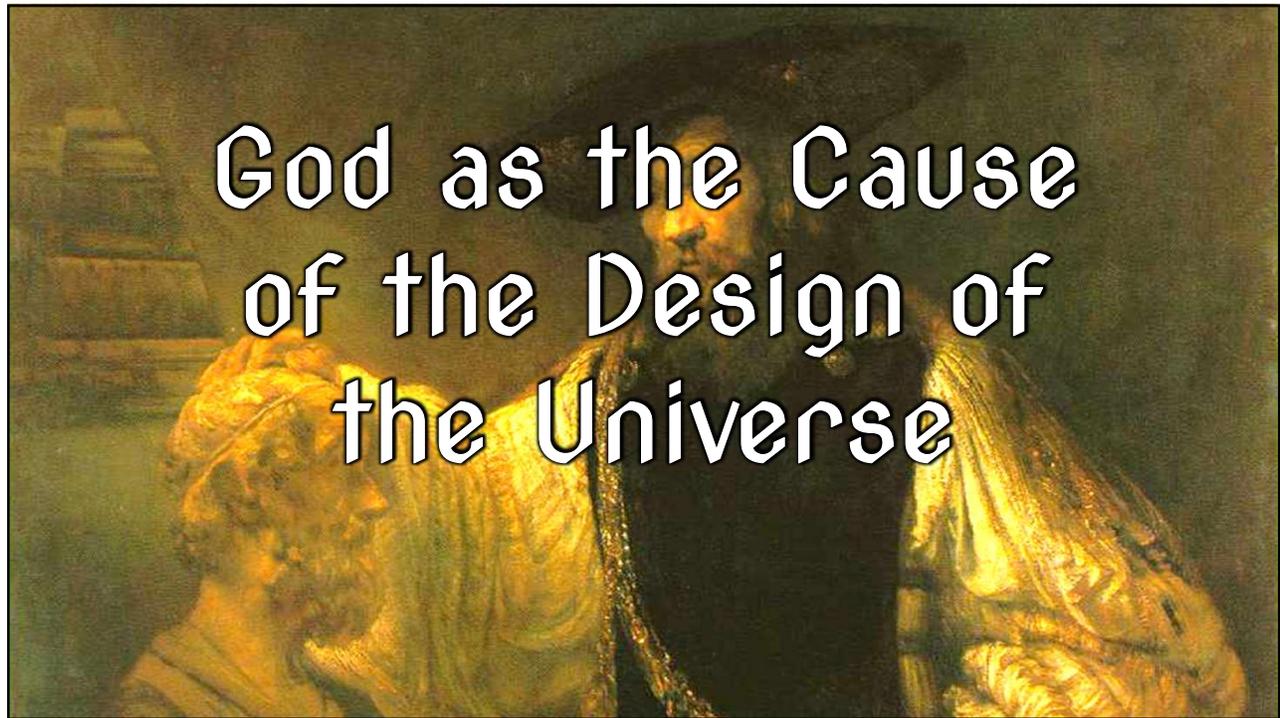
Mark R. Nowacki, "Whatever Comes to Be Has a Cause of Its Coming to Be: A Thomistic Defense of the Principle of Sufficient Reason" *The Thomist* 62 (1998): 291-302.

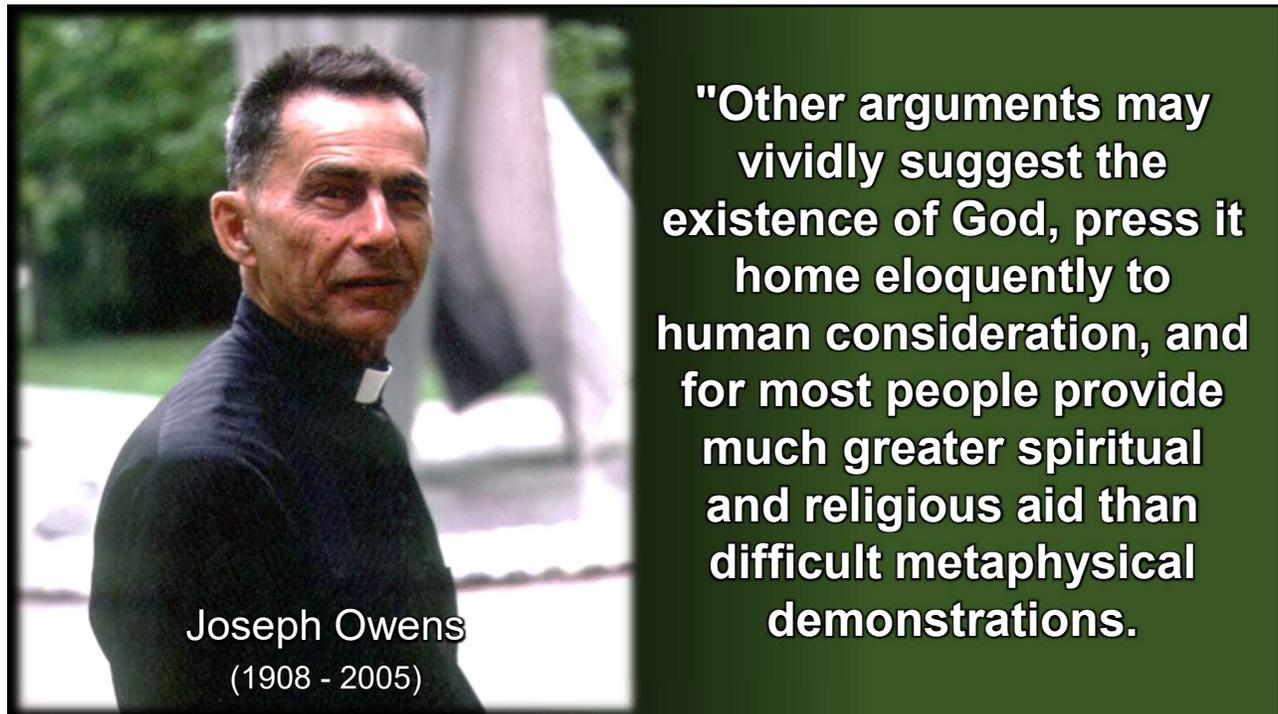
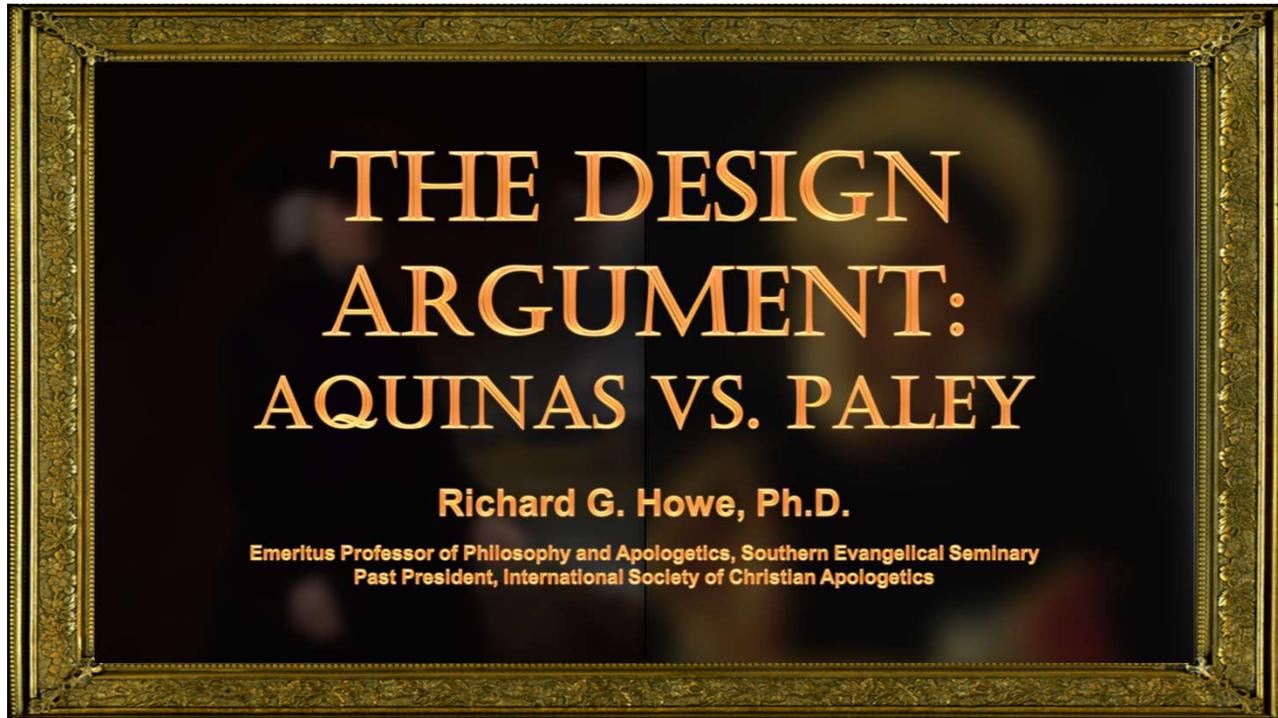


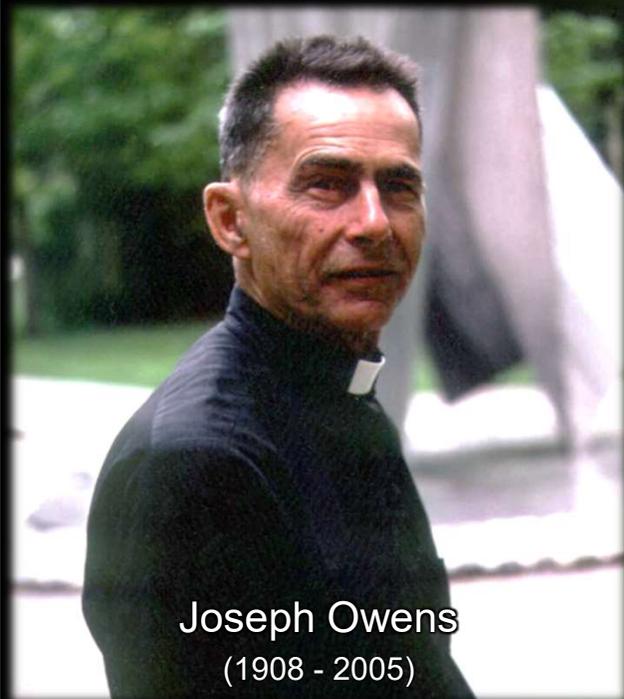


Therefore, the universe has a cause of its existence.





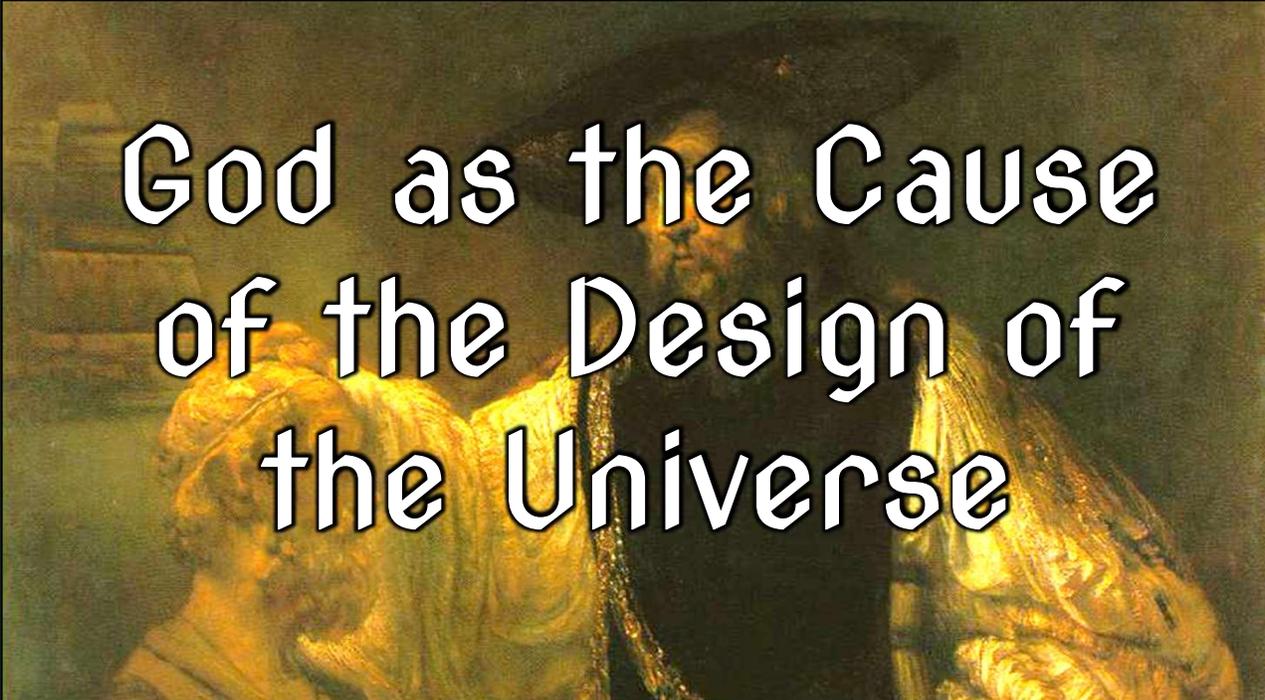




Joseph Owens
(1908 - 2005)

"But on the philosophical level these arguments are open to rebuttal and refutation, for they are not philosophically cogent."

[Joseph Owens, "Aquinas and the Five Ways," *Monist* 58 (Jan. 1974): 16-35. [p. 33]]



**God as the Cause
of the Design of
the Universe**

Scientific Evidence for the Design in the Universe

∞ Design of the Universe ∞

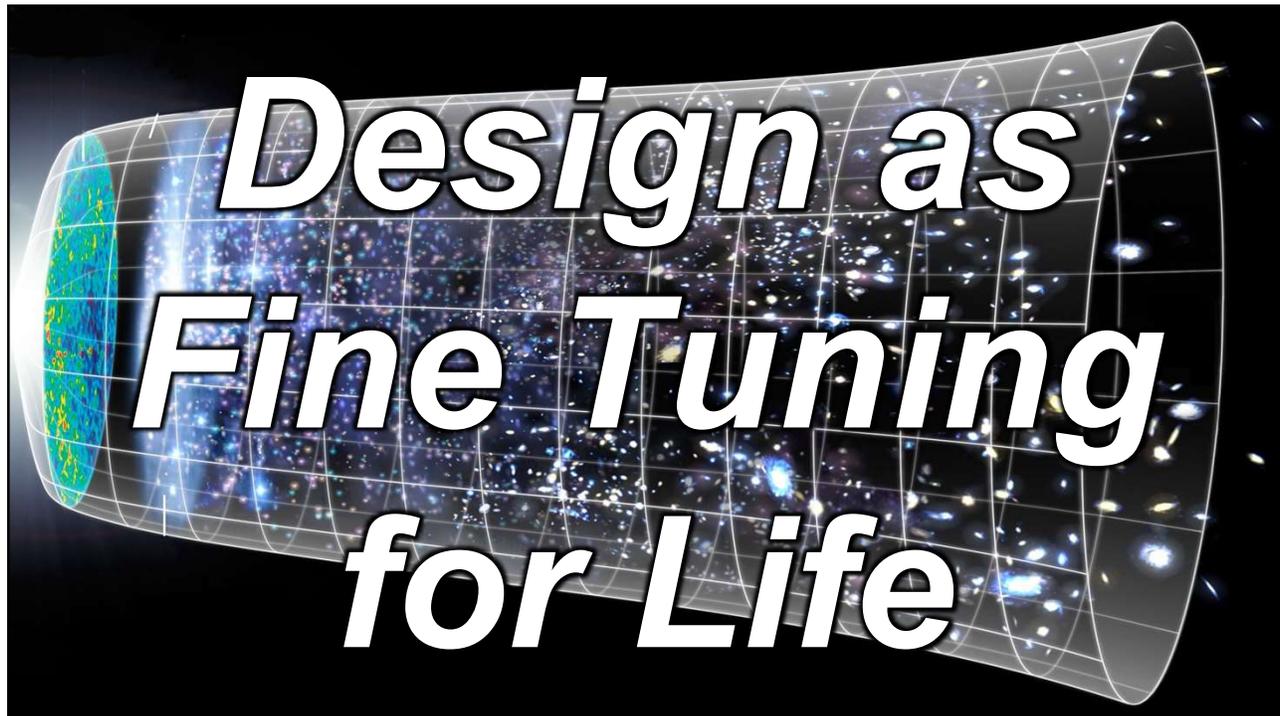
Design as fine tuning for life

Design as the origin of life

∞ Design of Living Systems ∞

Design as information

Design as irreducible complexity



∞ Definition ∞

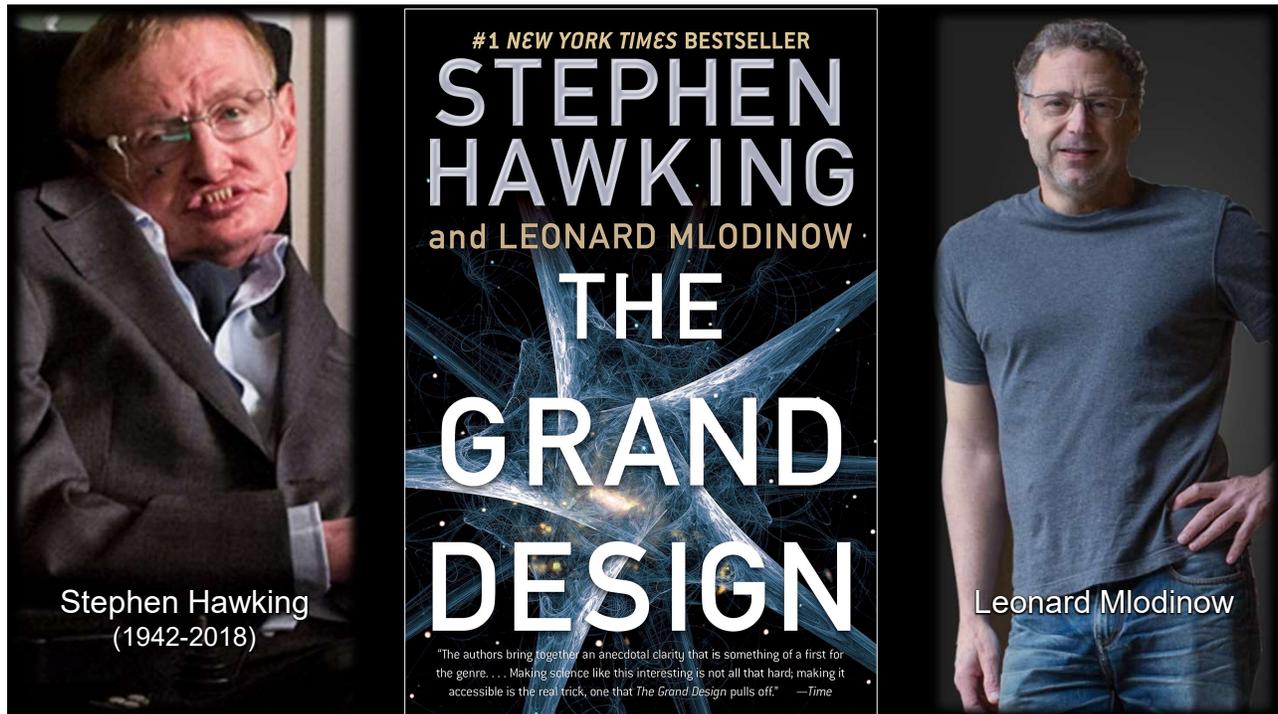
Scientists recognize that the universe's initial condition contained an array of physical values (constants) that are necessary for the universe to support life.

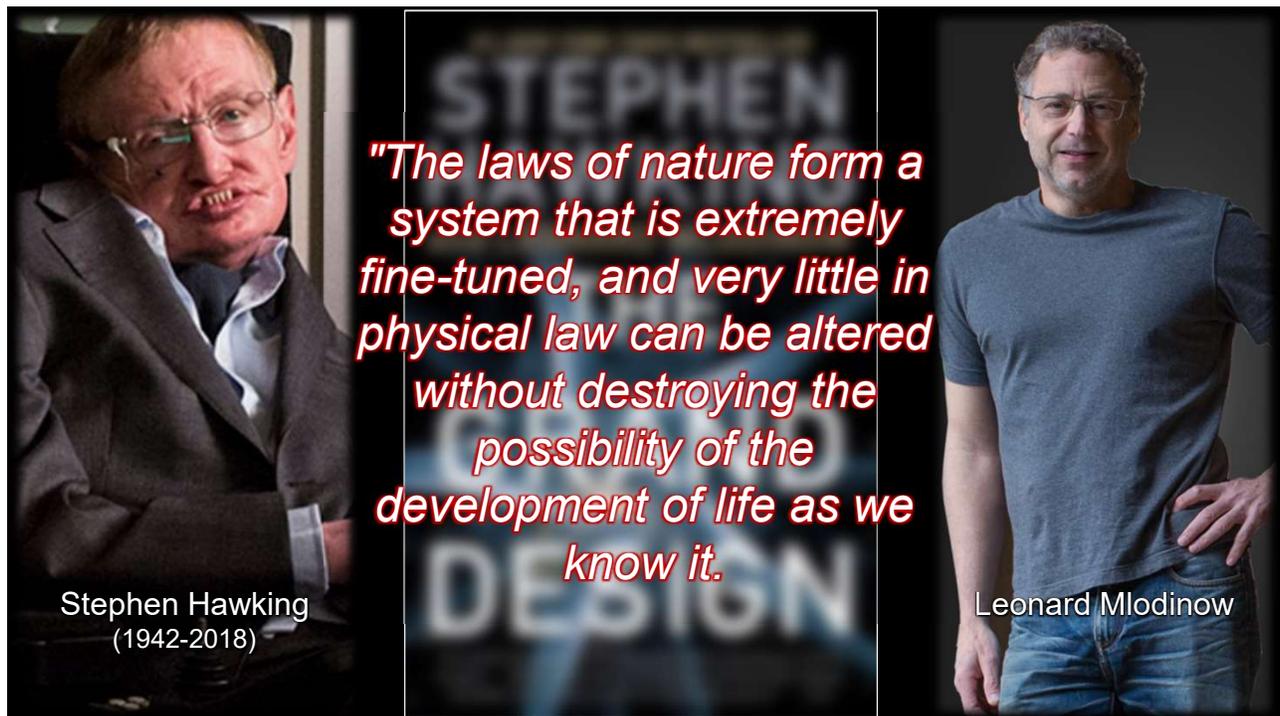
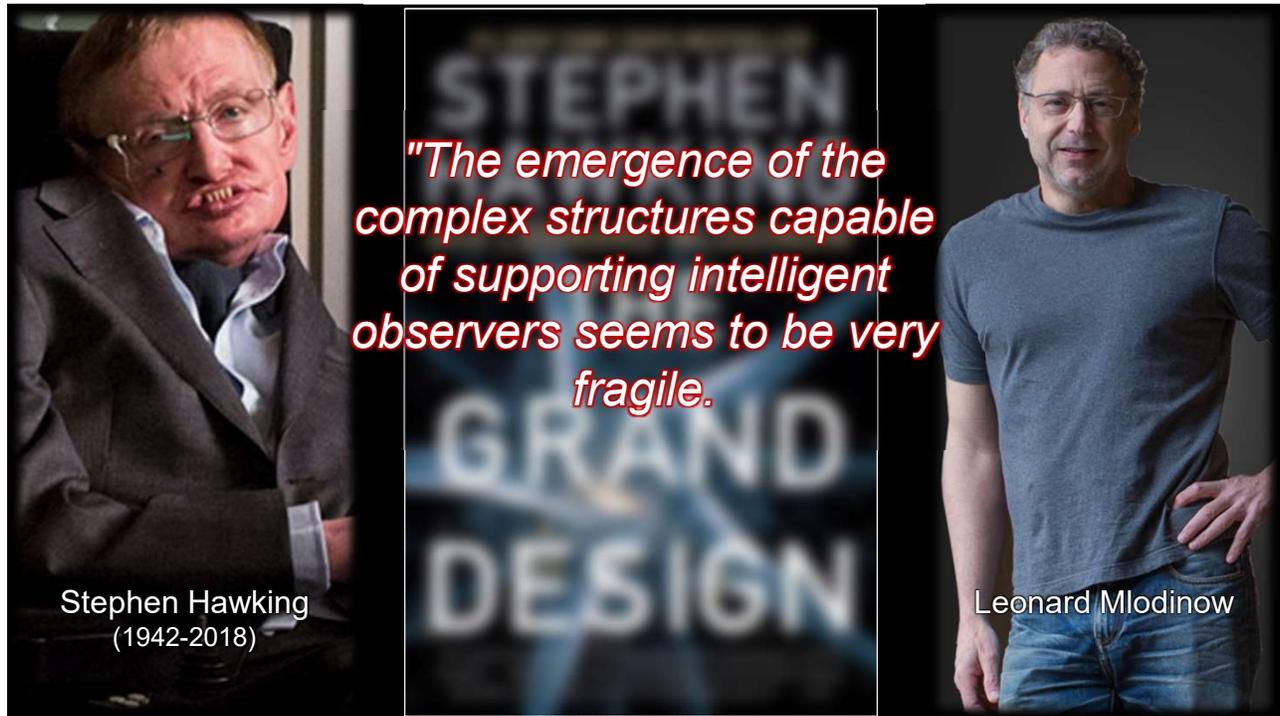
∞ Significance ∞

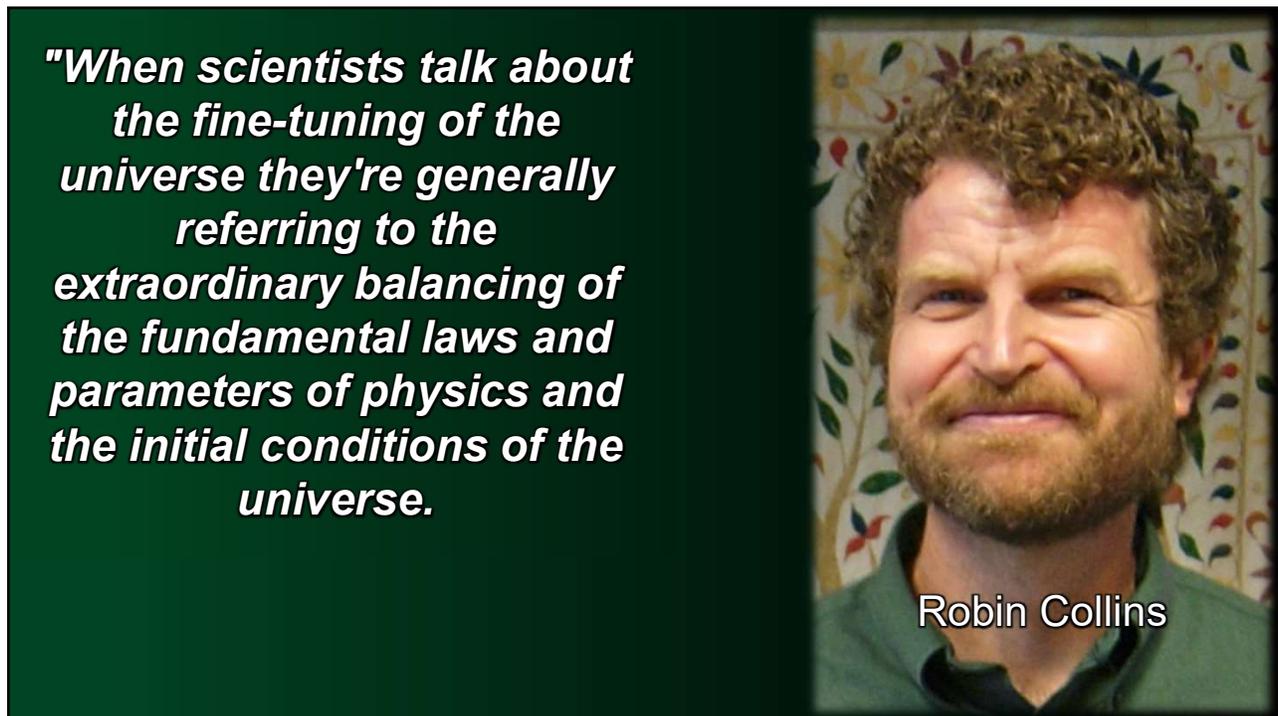
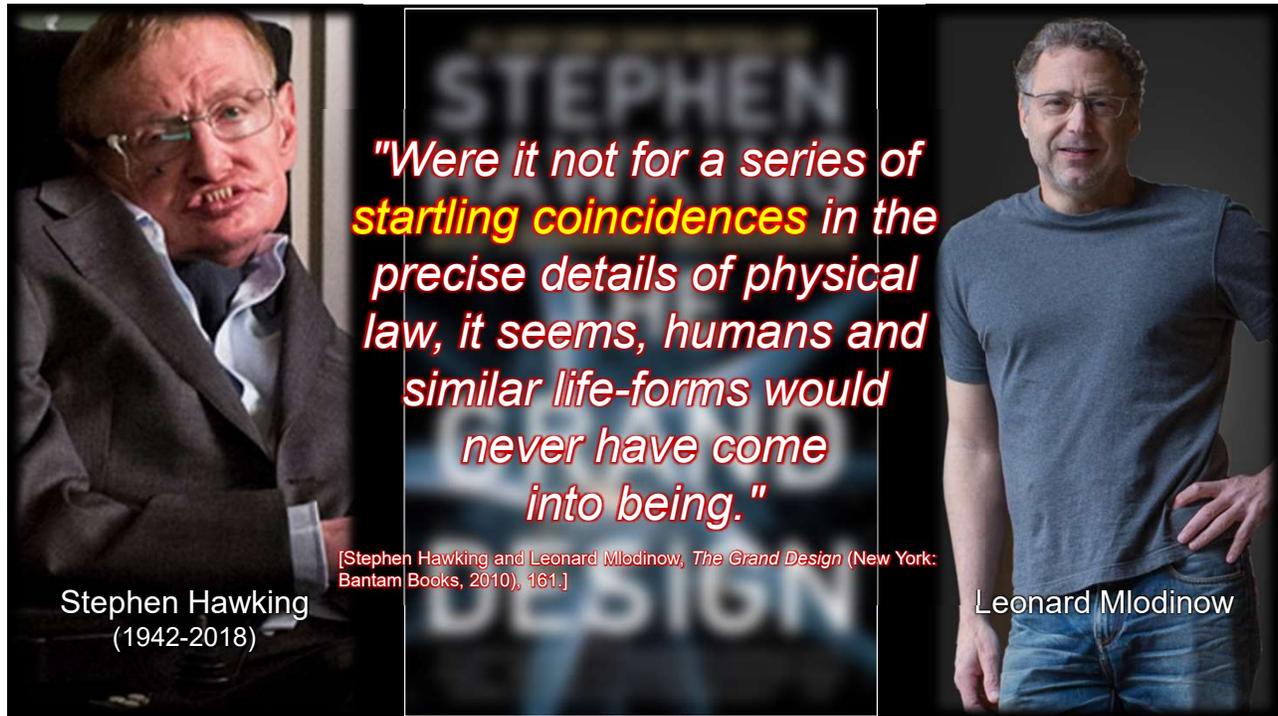
It would seem to some that the likelihood that these values could come about by chance is next to impossible.

∞ Significance ∞

Therefore, the status of the universe to support life seems to have been designed deliberately by an intelligent cause.

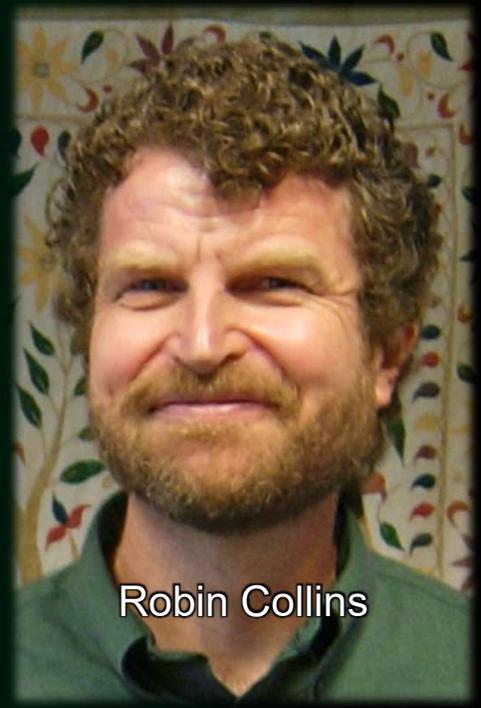






"Our minds can't comprehend the precision of some of them. The result is a universe that has just the right conditions to sustain life. The coincidences are simply too amazing to have been the result of happenstance."

[Robin Collins, "The Evidence of Physics: The Cosmos on a Razor's Edge" in Lee Strobel, *The Case for a Creator: A Journalist Investigates Scientific Evidence that Points Toward God* (Grand Rapids: Zondervan, 2004): 130]



Robin Collins

1. strong nuclear force constant
2. weak nuclear force constant
3. gravitational force constant
4. electromagnetic force constant
5. ratio of electromagnetic force constant to gravitational force constant
6. ratio of electron to proton mass
7. ratio of number of protons to number of electrons
8. expansion rate of the universe
9. entropy level of the universe
10. mass density of the universe
11. velocity of light
12. age of the universe
13. initial uniformity of radiation
14. average distance between galaxies
15. galaxy cluster density
16. average distance between stars
17. fine structure constant (a number used to describe the fine structure splitting of spectral lines)
18. decay rate of the proton
19. ^{12}C to ^{16}O nuclear energy level ratio
20. ground state energy level for ^4He
21. decay rate of ^9Be
22. mass excess of the neutron over the proton
23. initial excess of nucleons over anti-nucleons
24. polarity of the water molecule
25. degree of uncertainty in the Heisenberg uncertainty principle
26. size of the relativistic dilation factor
27. supernovae eruptions
28. number of white dwarf binaries
29. ratio of the mass of exotic matter to ordinary matter
30. ratio of number of dwarf galaxies to number of large galaxies
31. number of effective dimensions in the early universe
32. number of effective dimensions in the present universe
33. mass of the neutrino
34. size of big bang ripples
35. size of cosmological constant

[Hugh Ross, "Why I Believe in the Miracle of Divine Creation," in Norman L. Geisler and Paul K. Hoffman *Why I Am a Christian: Leading Thinkers Explain Why They Believe* (Grand Rapids: Baker Books, 2001): 138-139]

- ❖ **Had the rate of expansion of the big bang been different, no life would have been possible.**
- ❖ **If Earth's magnetic field were stronger, electromagnetic storms would be too severe. If it were weaker, we would have inadequate protection from hard stellar radiation.**

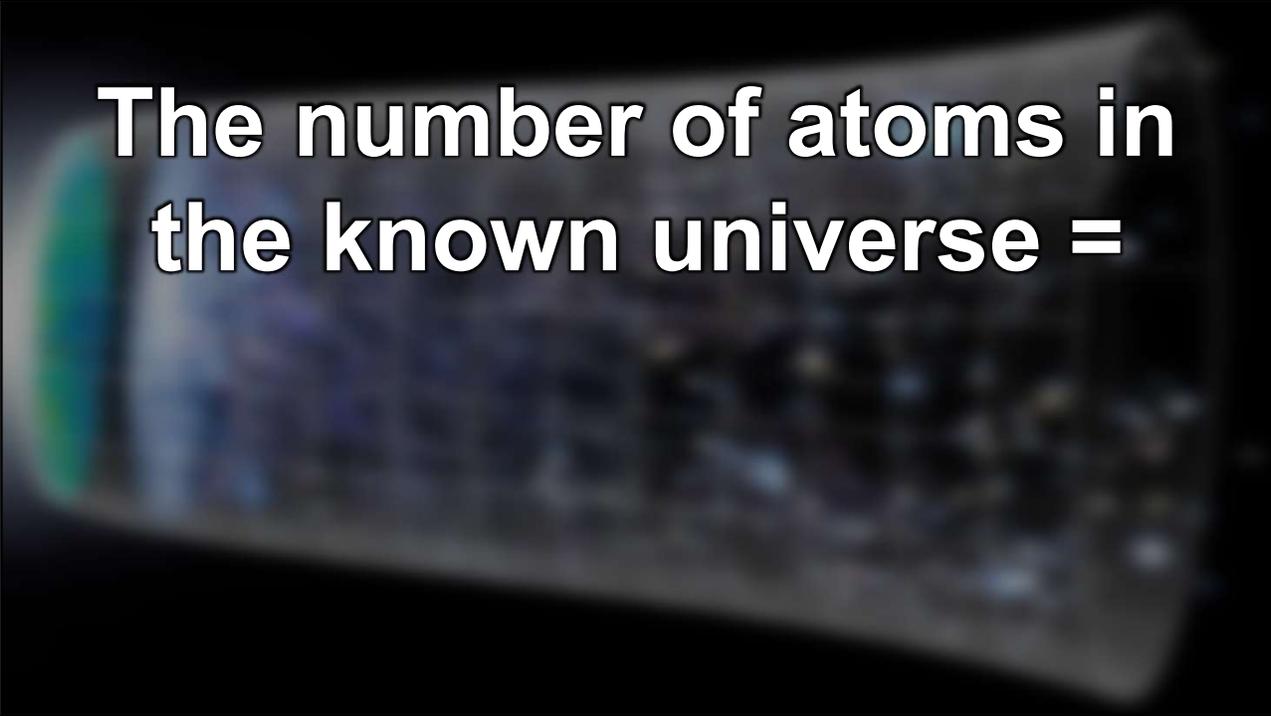
- ❖ **If Earth's gravitational interaction with the moon were greater, then tidal effects on the oceans, atmosphere, and rotational period would be too severe. If it were less, orbital changes would cause climactic instabilities.**

- ❖ If Earth's axial tilt were any greater or less, surface temperatures would be too great.
- ❖ If Earth's rotational period were longer, diurnal temperature differences would be too great. If it were shorter, atmospheric wind velocities would be too great.

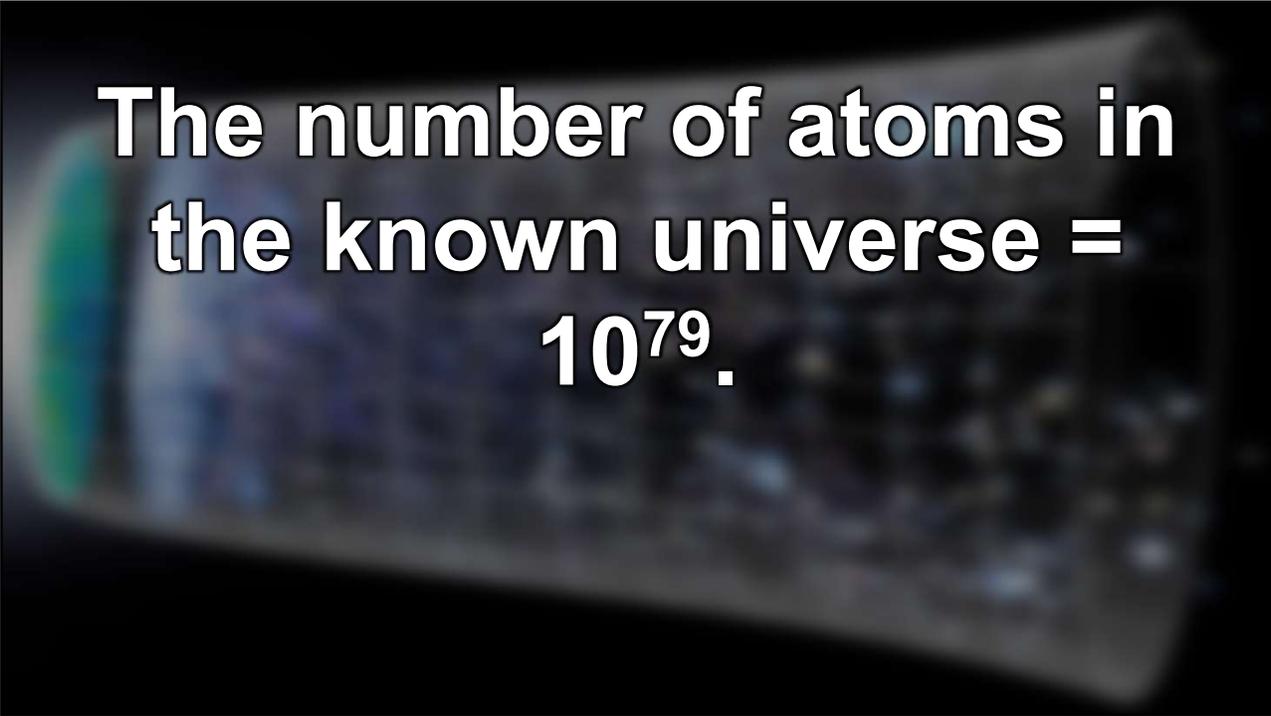
- ❖ Had the values of the gravitational constant, the strong force constant (the force binding protons and neutrons in the nucleus), the weak force (the force responsible for many nuclear processes), and the electromagnetic force been slightly greater or smaller, no life would have been possible.

**With an estimate of 10^{22}
planets in the universe
the odds of one life-
supporting planet =
1 in 10^{138} .**

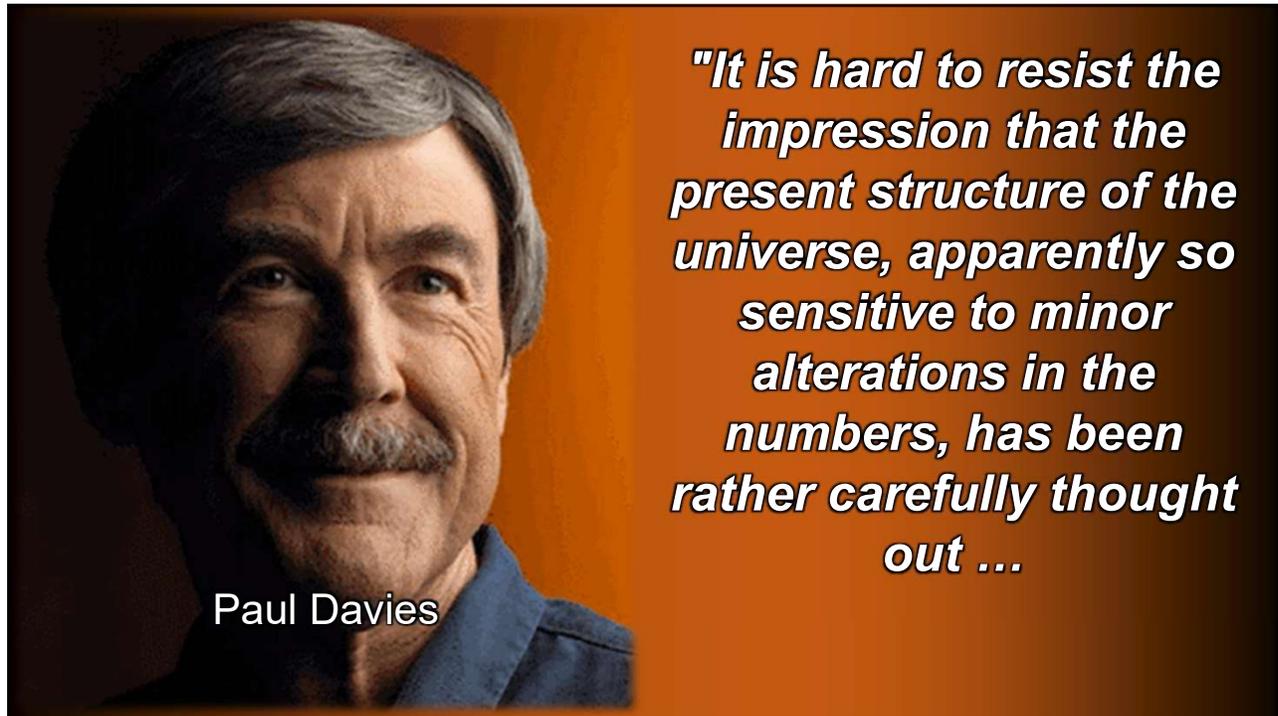
**But just how big
of a number is
1 in 10^{138} ?**



**The number of atoms in
the known universe =**

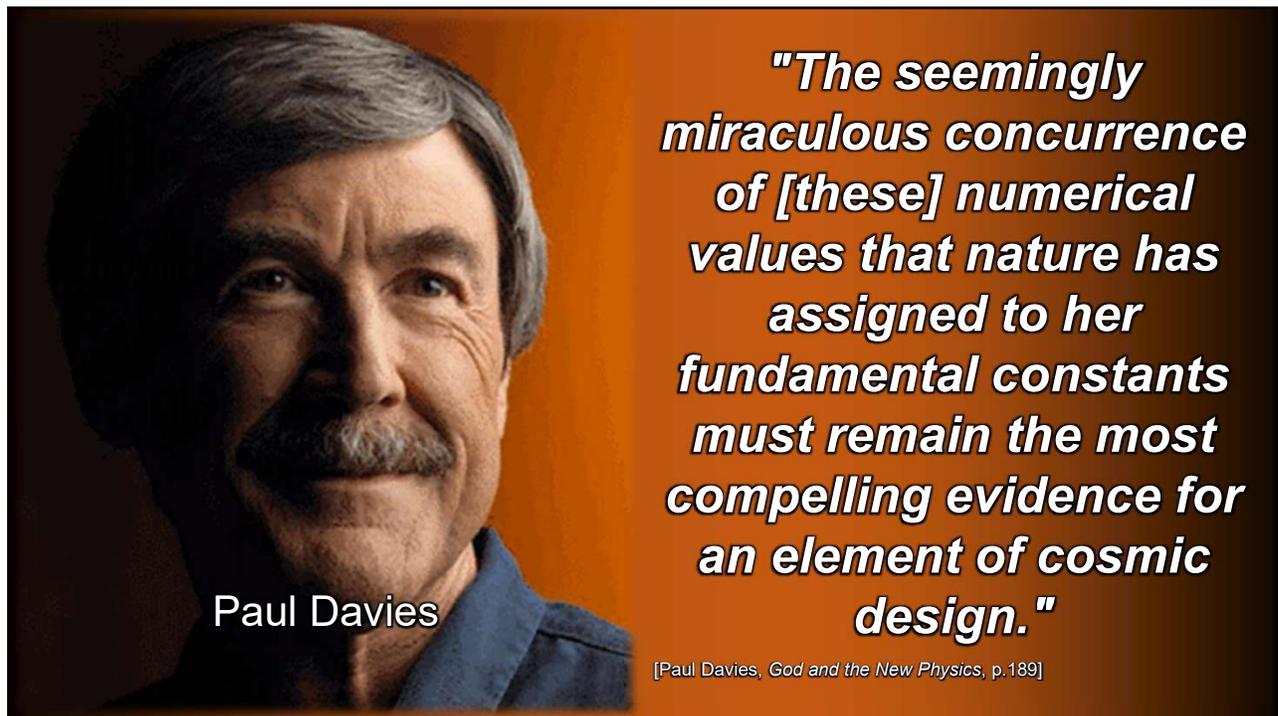


**The number of atoms in
the known universe =
 10^{79} .**



Paul Davies

"It is hard to resist the impression that the present structure of the universe, apparently so sensitive to minor alterations in the numbers, has been rather carefully thought out ..."

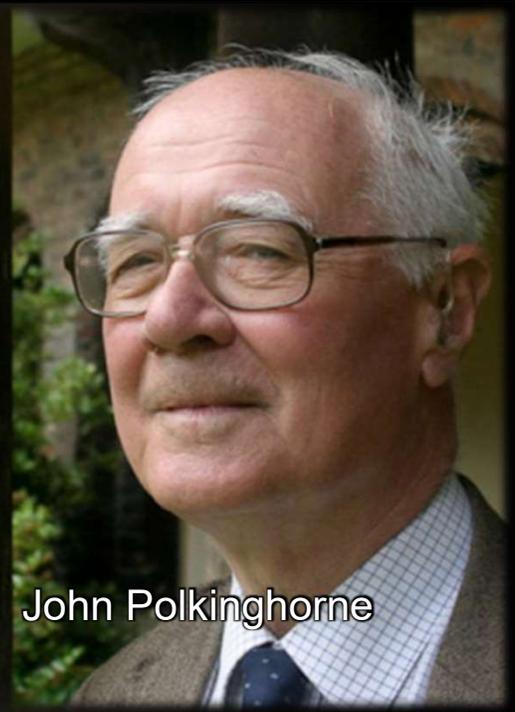


Paul Davies

"The seemingly miraculous concurrence of [these] numerical values that nature has assigned to her fundamental constants must remain the most compelling evidence for an element of cosmic design."

[Paul Davies, *God and the New Physics*, p.189]

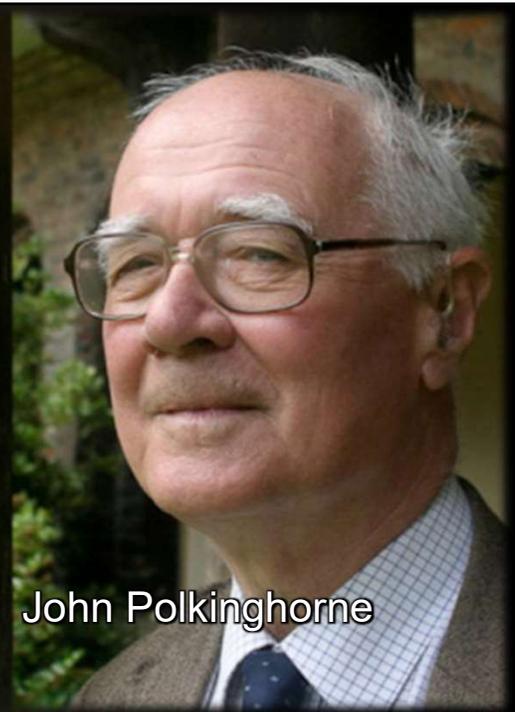
"There seems to be the chance of a revised and revived argument from design . . . appealing to a cosmic planner who has endowed the world with a potentiality implanted within the delicate balance of the laws of nature themselves,



John Polkinghorne

"which laws science cannot explain because it assumes them as the basis for its explanation of the process. In short, the claim would be that the universe is indeed . . . the carefully calculated construct of its Creator."

[John Polkinghorne, *Serious Talk: Science and Religion in Dialogue* (Valley Forge: Trinity Press International, 1995), 69-70]

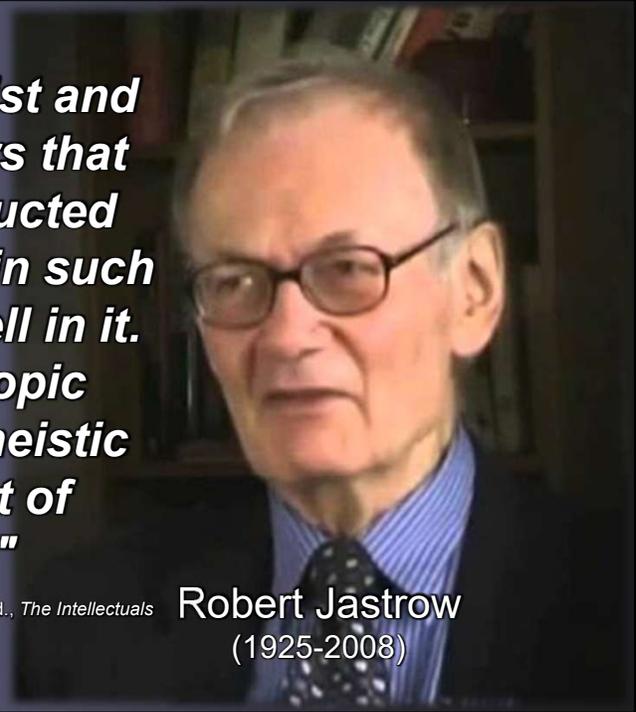


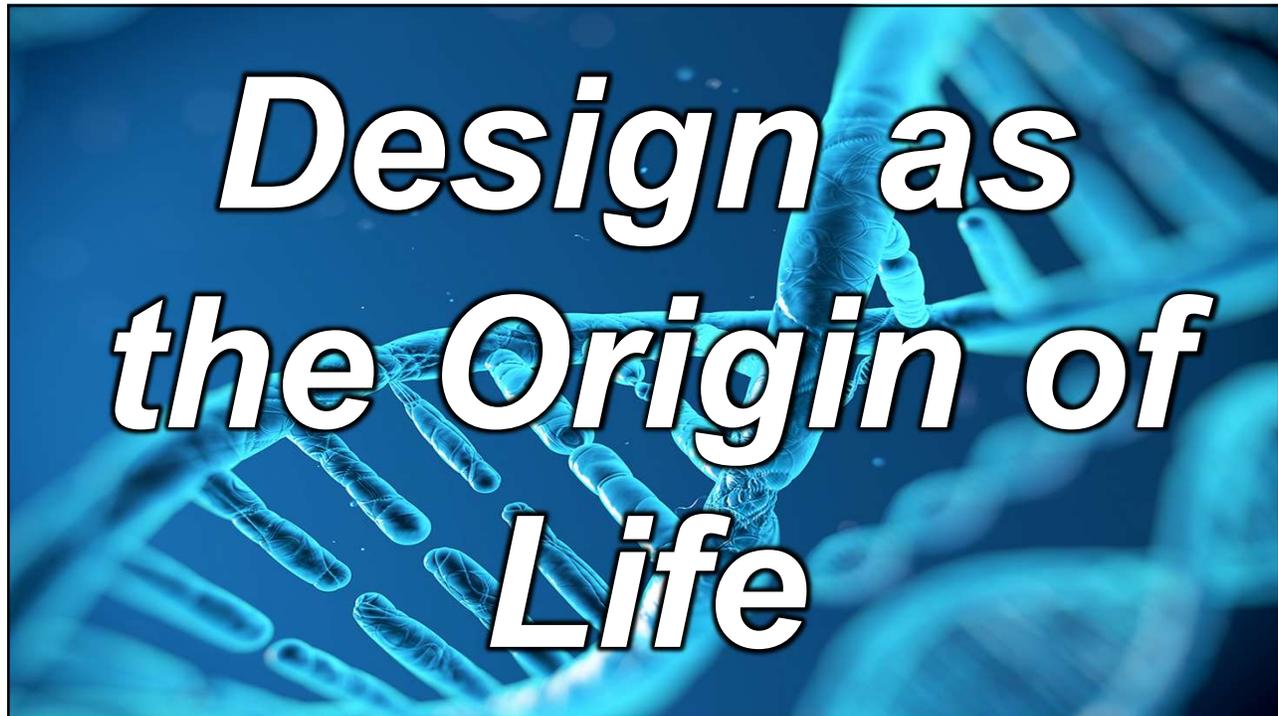
John Polkinghorne

"According to the physicist and the astronomer, it appears that the Universe was constructed within very narrow limits, in such a way that man could dwell in it. This is called the anthropic principle. It is the most theistic result ever to come out of science, in my view."

[Robert Jastrow "The Astronomer and God," in Roy Abraham Varghese, ed., *The Intellectuals Speak Out About God* (Chicago: Regnery Gateway, 1984): 22]

Robert Jastrow
(1925-2008)





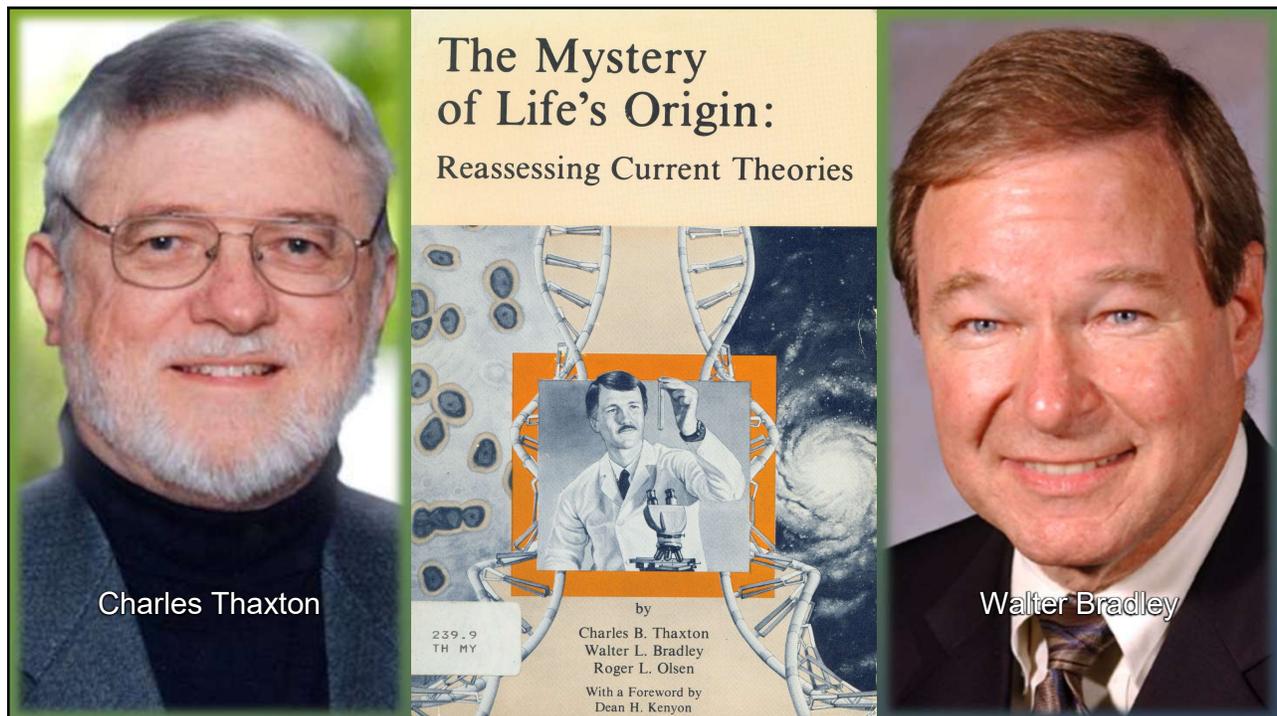
Design as the Origin of Life

∞ Definition ∞

Biologically speaking, life is physically possible only given certain elements and processes, the existence of which require biological life itself.

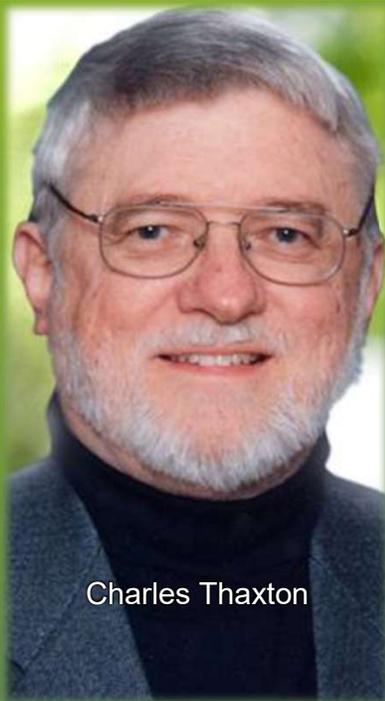
∞ Significance ∞

If the necessary ingredients for biological life themselves require biological life, then biological life could not have come from non-life.



Charles Thaxton

Walter Bradley

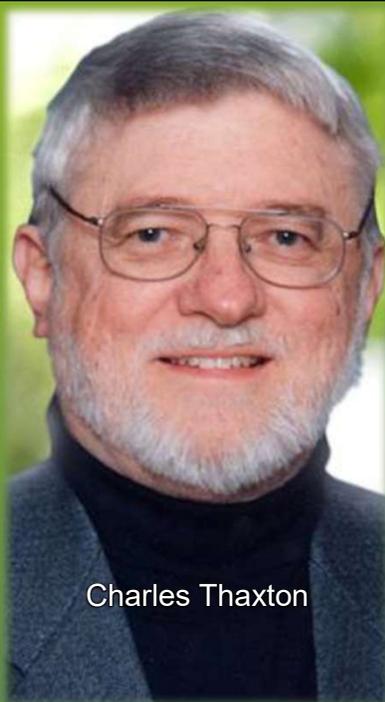


"Without a doubt, the atoms and molecules which comprise living cells individually obey the laws of chemistry and physics. The enigma is the origin of so unlikely an organization of these atoms and molecules

Charles Thaxton

Walter Bradley

...



"It is apparent that 'chance' should be abandoned as an acceptable model for coding of the macromolecules essential in living systems."

Charles Thaxton

Walter Bradley

[Charles B. Thaxton, Walter L. Bradley, and Roger L. Olsen , *The Mystery of Life's Origin: Reassessing Current Theories* (New York: Philosophical Library, 1984), 128, 146]



"Any theory with a probability of being correct that is larger than one part in 10 to the 40,000th power must be judged superior to random shuffling."



Sir Frederick Hoyle
(1915-2001)

Chandra Wickramasinghe



"The theory that life was assembled by an intelligence has, we believe, a probability vastly higher than one part in 10 to the 40,000th power of being the correct explanation ..."



Sir Frederick Hoyle
(1915-2001)

Chandra Wickramasinghe



Sir Frederick Hoyle
(1915-2001)

"Indeed, such a theory is so obvious that one wonders why it is not widely accepted as being self-evident. The reasons are psychological rather than scientific."

Chandra Wickramasinghe

[F. Hoyle and N. Wickramasinghe, *Evolution from Space* (No publisher: No city, 1981), p. 130, as cited in W. R. Bird, *The Origin of Species Revisited*, 2 vols (Nashville: Regency, 1991), vol. I, p. 82]




"If the universe wasn't fine tuned to be able to support life, we wouldn't be here to observe it!"

↻ The Response ↻



The Firing Squad Example

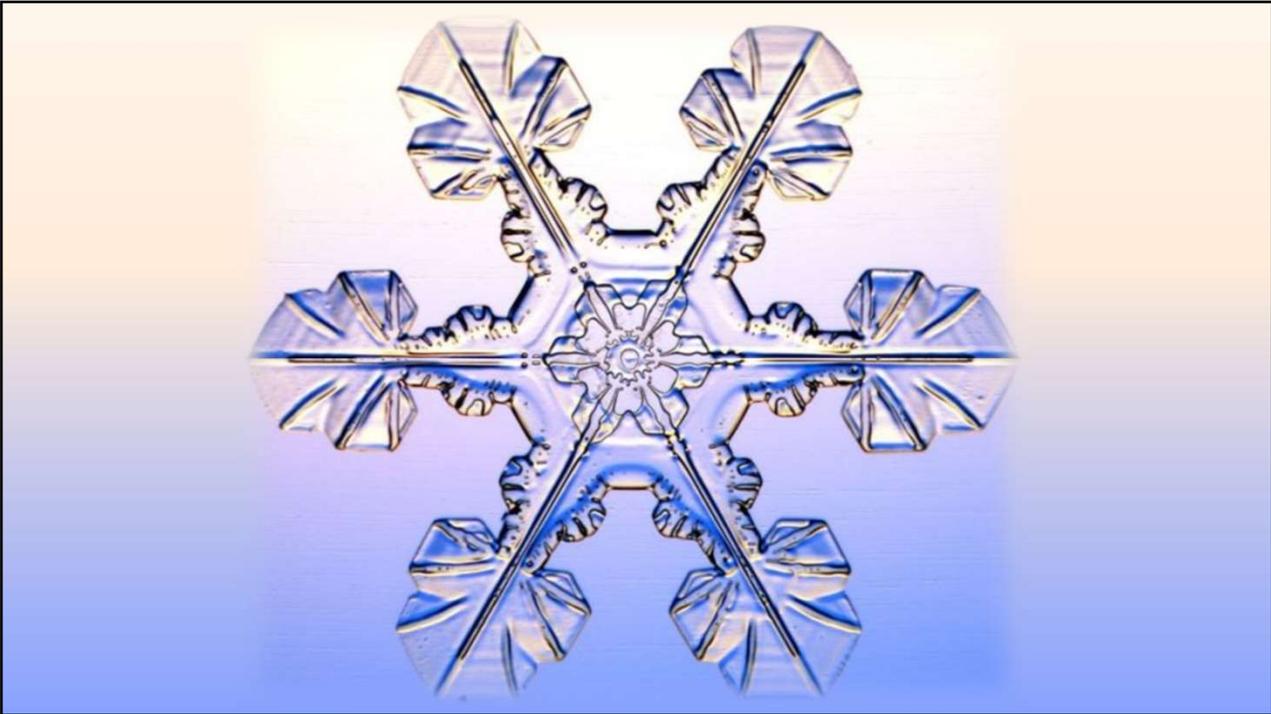
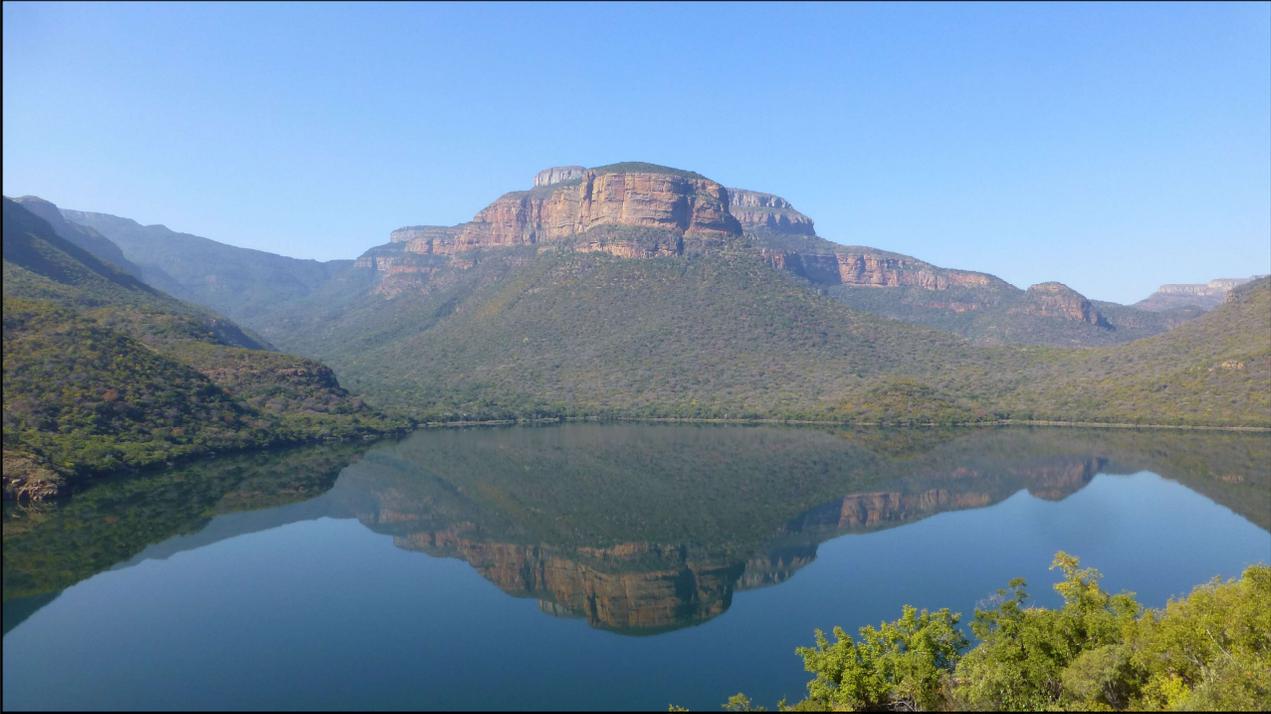
***Design as
Information***

∞ Definition ∞

Information, known also as specified complexity, is physically distinguishable from simple complexity and simple order.

∞ Significance ∞

The presence of information always points to an intelligent cause.

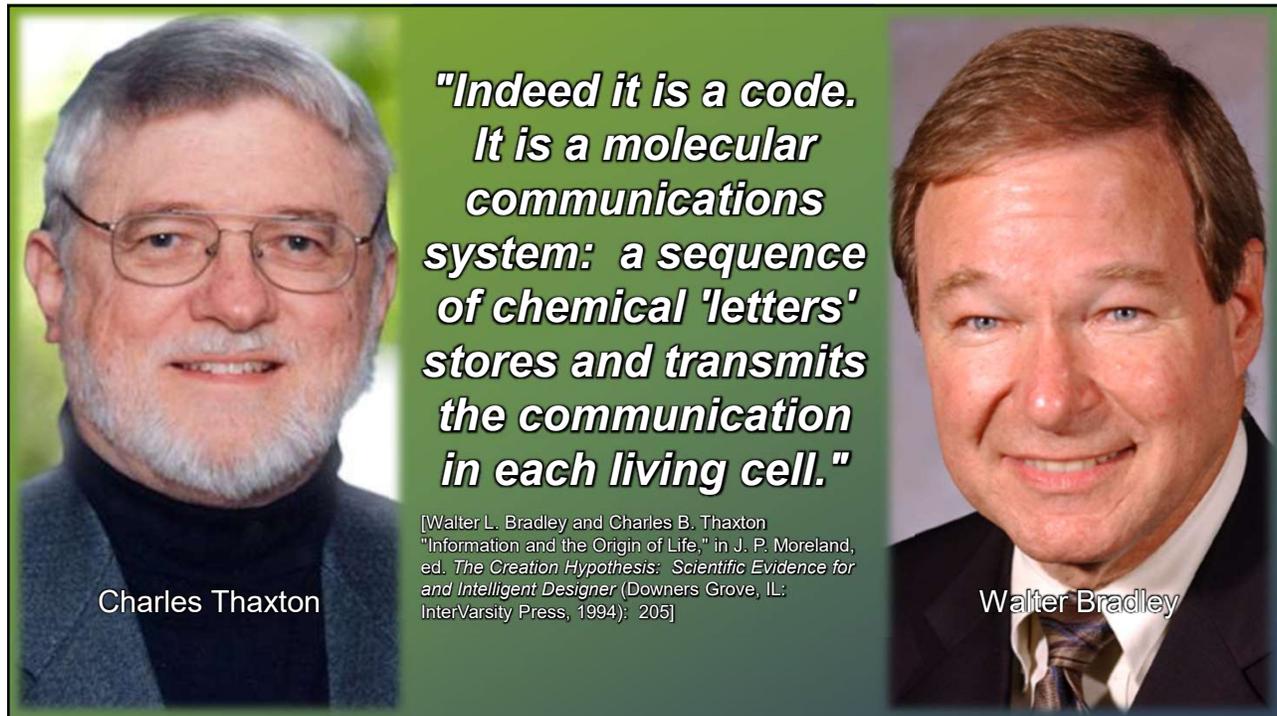




"Proponents of an intelligent origin of life note that molecular biology has uncovered an analogy between DNA and language ... The genetic code functions exactly like a language code"

Charles Thaxton

Walter Bradley

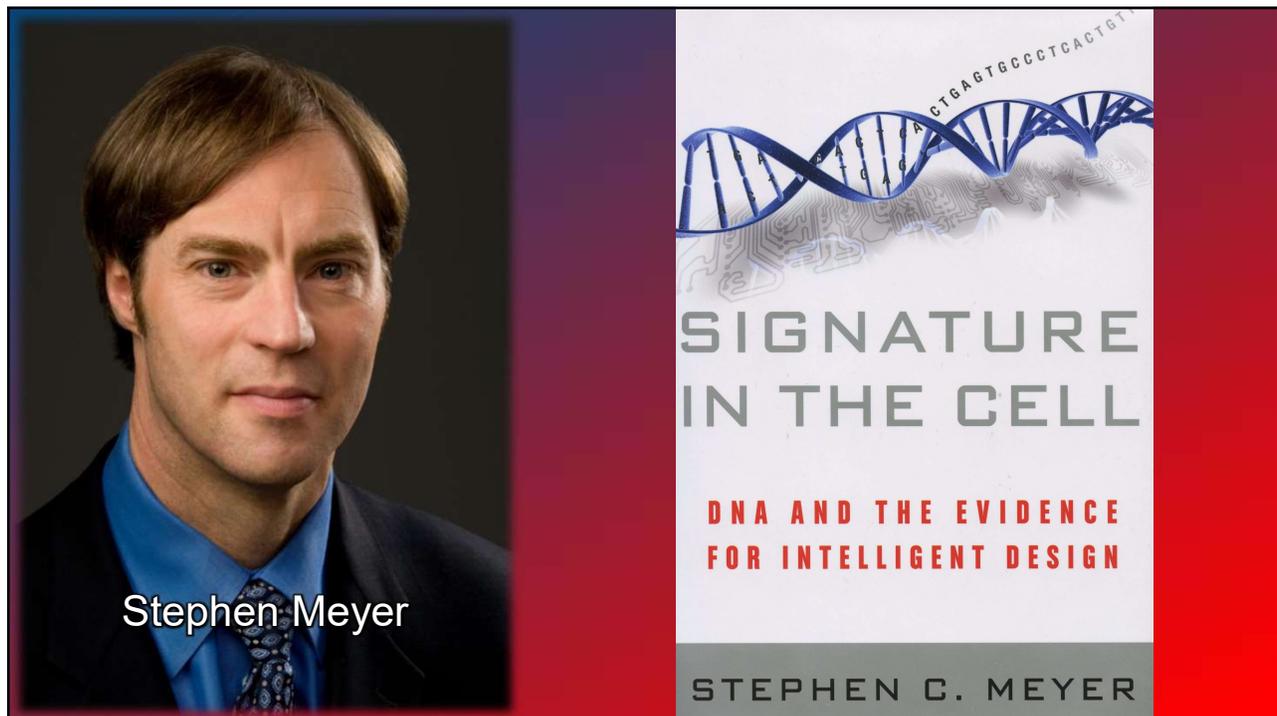


"Indeed it is a code. It is a molecular communications system: a sequence of chemical 'letters' stores and transmits the communication in each living cell."

[Walter L. Bradley and Charles B. Thaxton "Information and the Origin of Life," in J. P. Moreland, ed. *The Creation Hypothesis: Scientific Evidence for and Intelligent Designer* (Downers Grove, IL: InterVarsity Press, 1994): 205]

Charles Thaxton

Walter Bradley

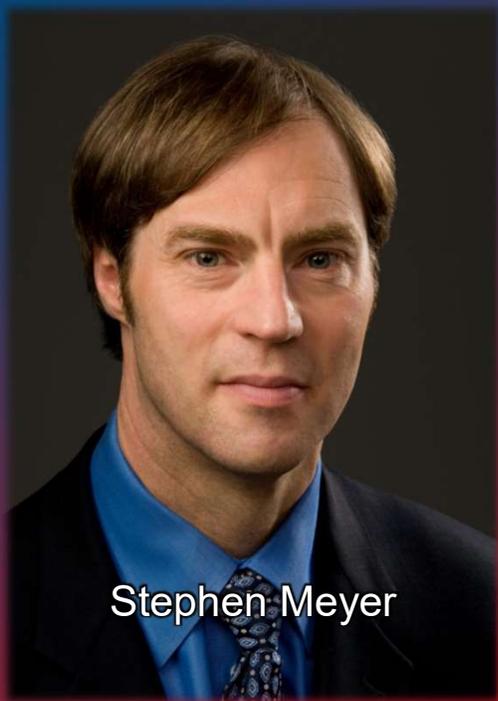


Stephen Meyer

SIGNATURE IN THE CELL

DNA AND THE EVIDENCE FOR INTELLIGENT DESIGN

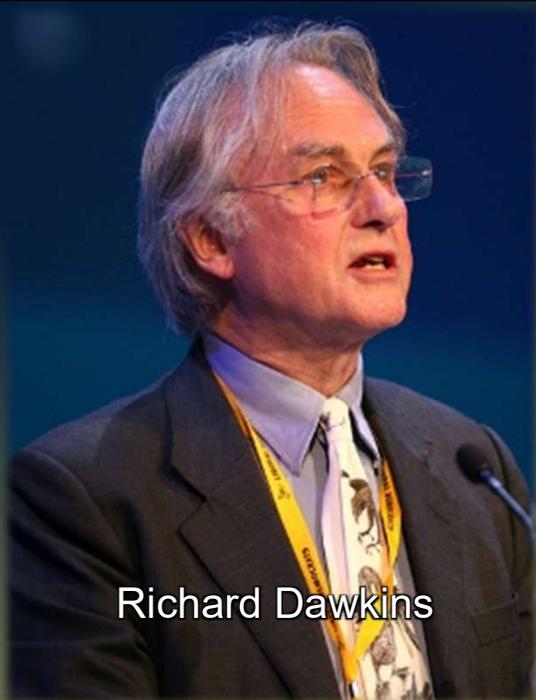
STEPHEN C. MEYER



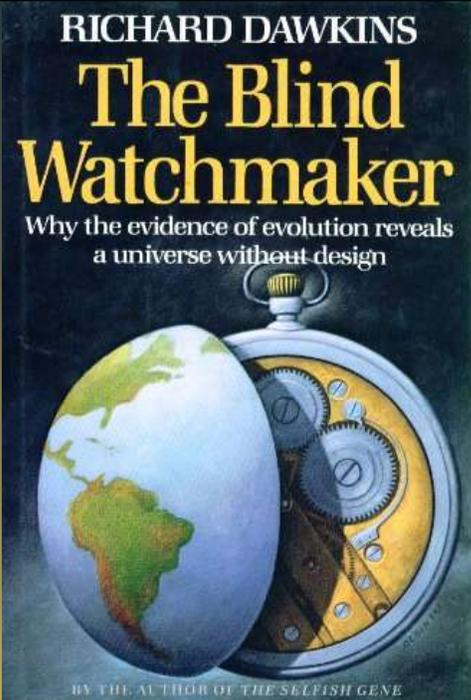
Stephen Meyer

"At nearly the same time that computer scientists were beginning to develop machine languages, molecular biologists were discovering that living cells had been using something akin to machine code or software all along."

[Stephen C. Meyer, *Signature in the Cell: DNA and the Evidence for Intelligent Design* (New York: Harper Collins, 2009), 110]



Richard Dawkins



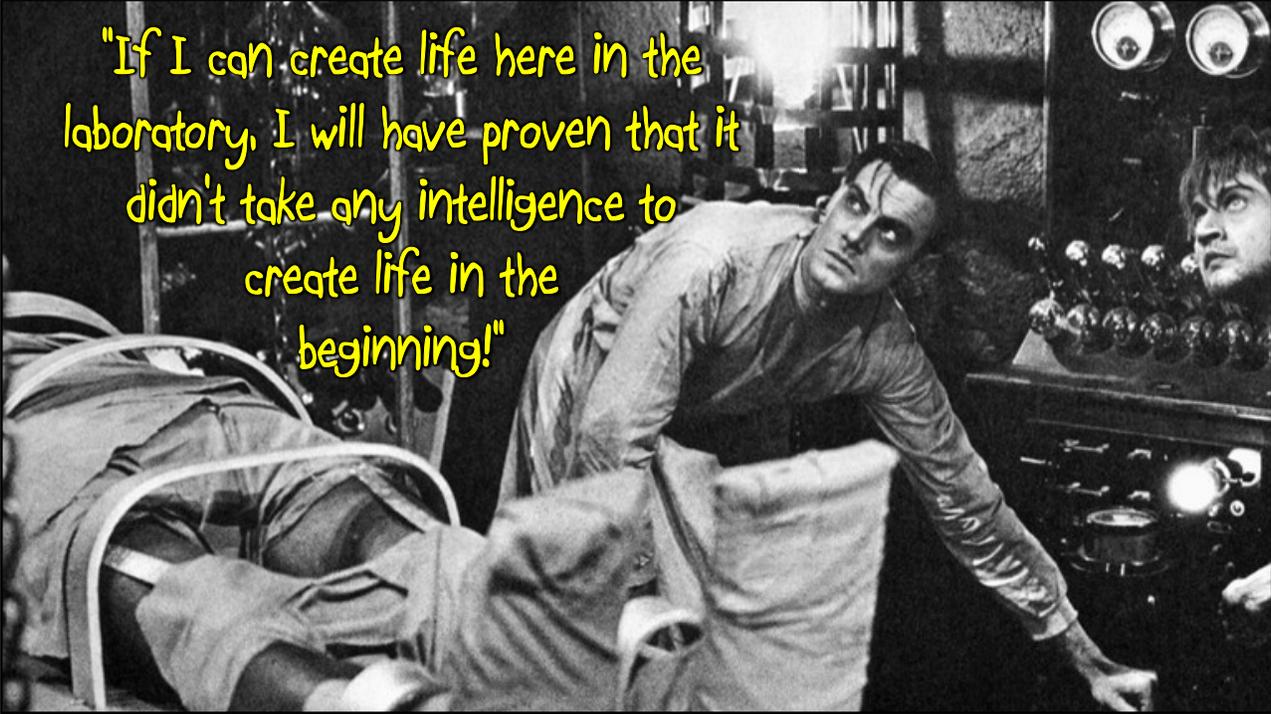
RICHARD DAWKINS
The Blind Watchmaker
Why the evidence of evolution reveals a universe without design

BY THE AUTHOR OF THE SELFISH GENE

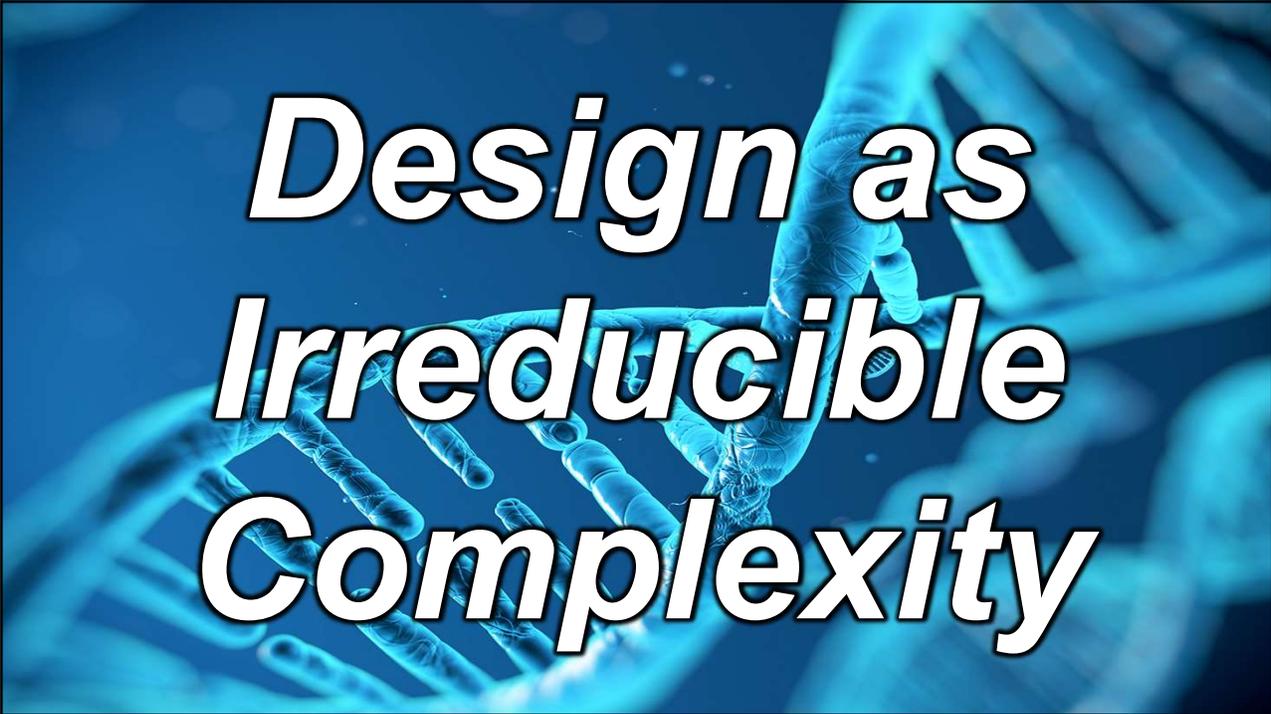


"There is enough information capacity in a single human cell to store the Encyclopedia Britannica, all 30 volumes of it, three or four times over."

[Richard Dawkins, *The Blind Watchmaker: Why the Evidence of Evolution Reveals a Universe Without Design* (New York: W. W. Norton, 1987): 115-116]



"If I can create life here in the laboratory, I will have proven that it didn't take any intelligence to create life in the beginning!"



Design as Irreducible Complexity

∞ Definition ∞

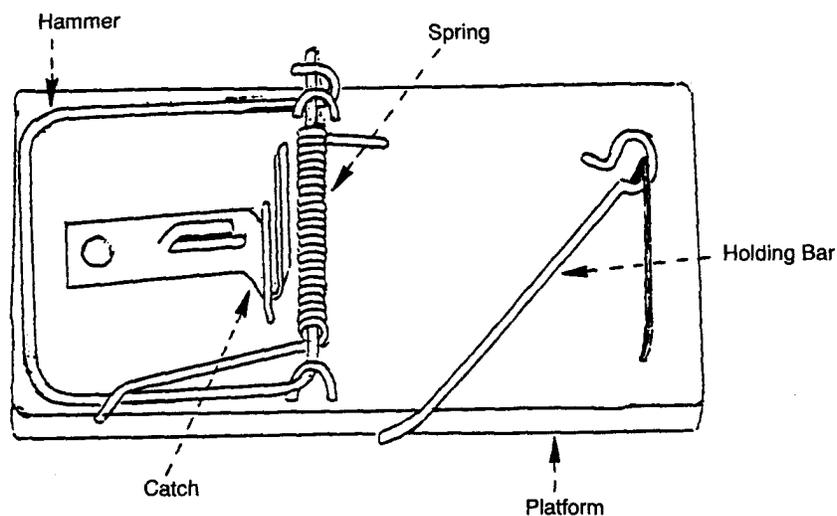
Some biological systems consist of several interlocking parts that must be in place before the system can function at all.

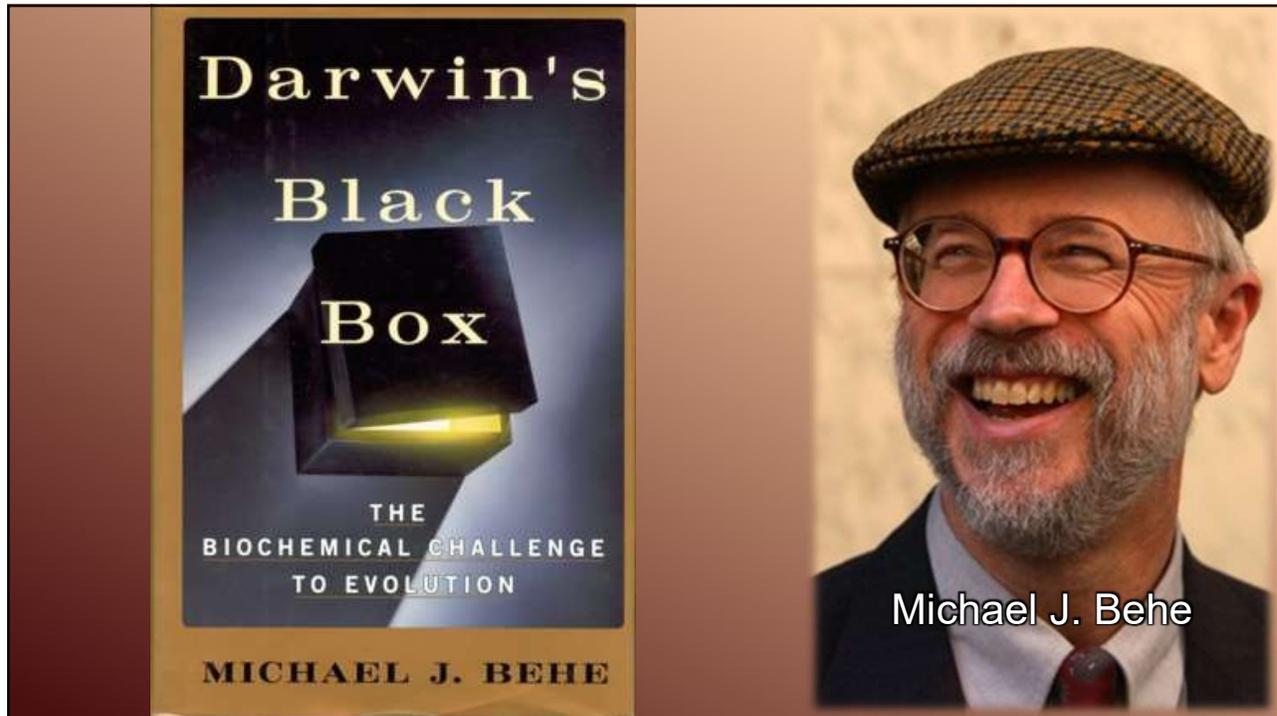
Significance

Since such complexity cannot be accounted for by gradual accumulations of random mutations, the systems must have arisen all at once by an intelligent cause.

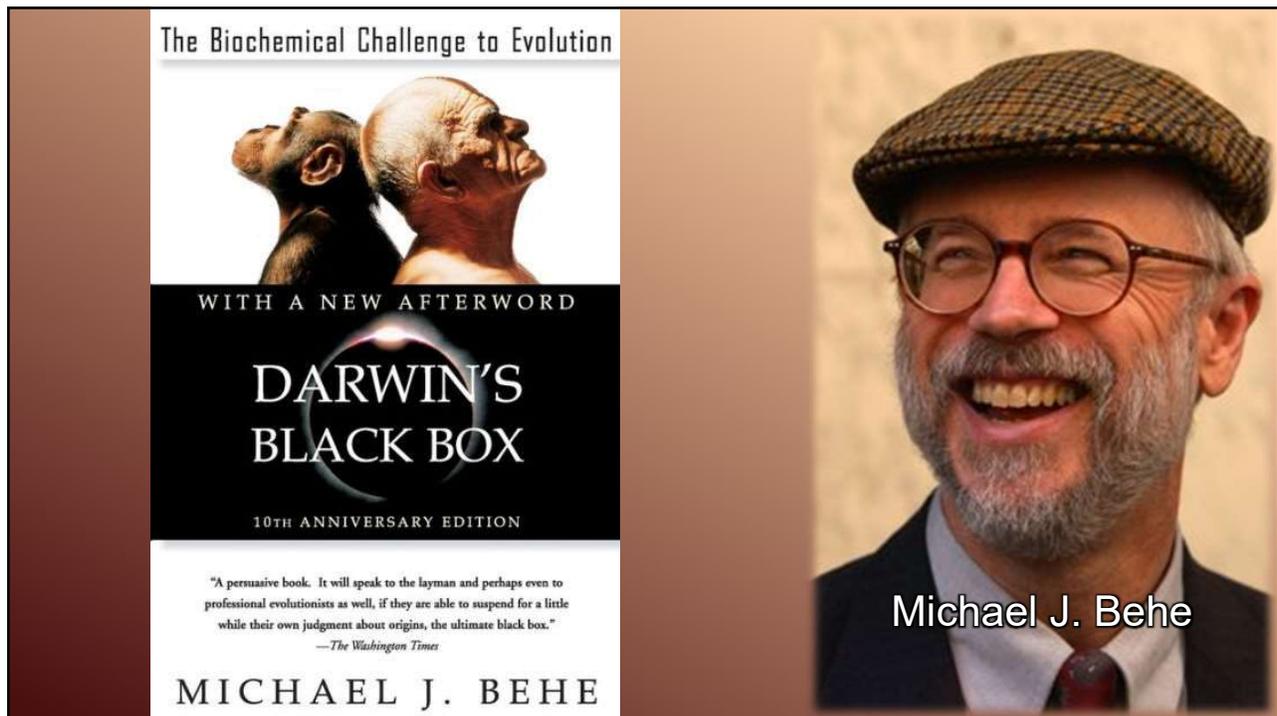
FIGURE 2-2

A HOUSEHOLD MOUSETRAP.

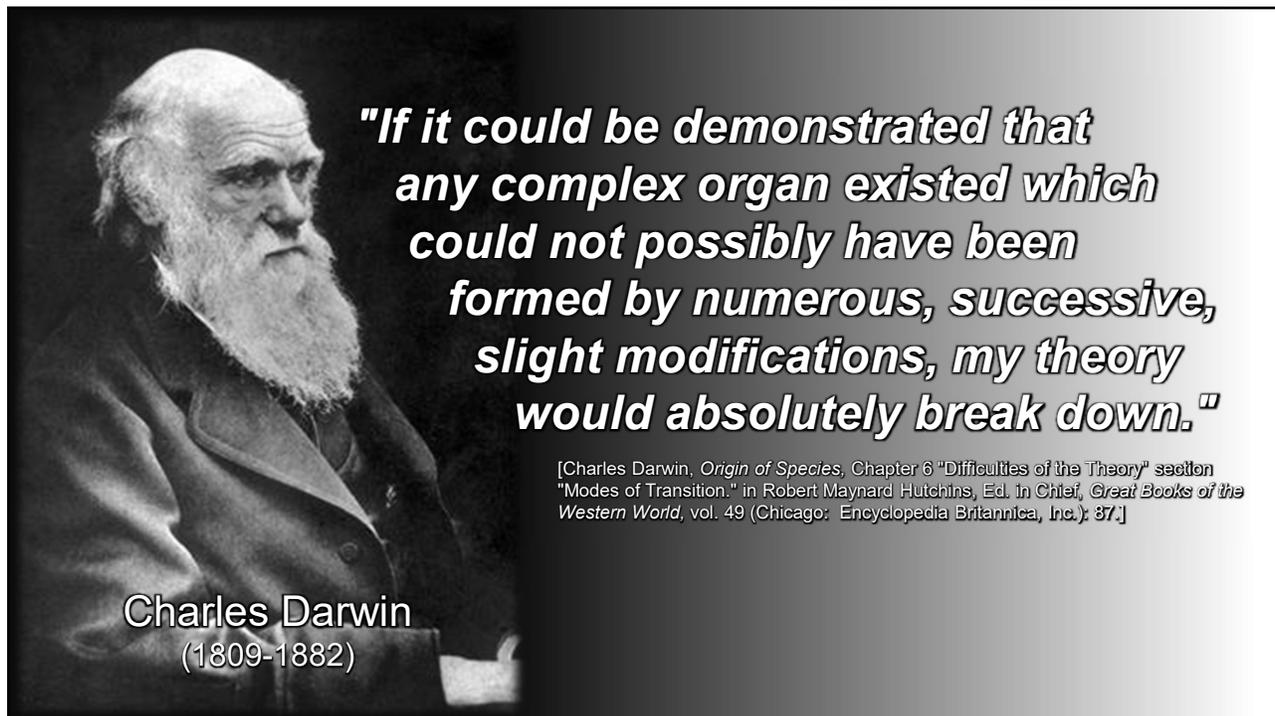
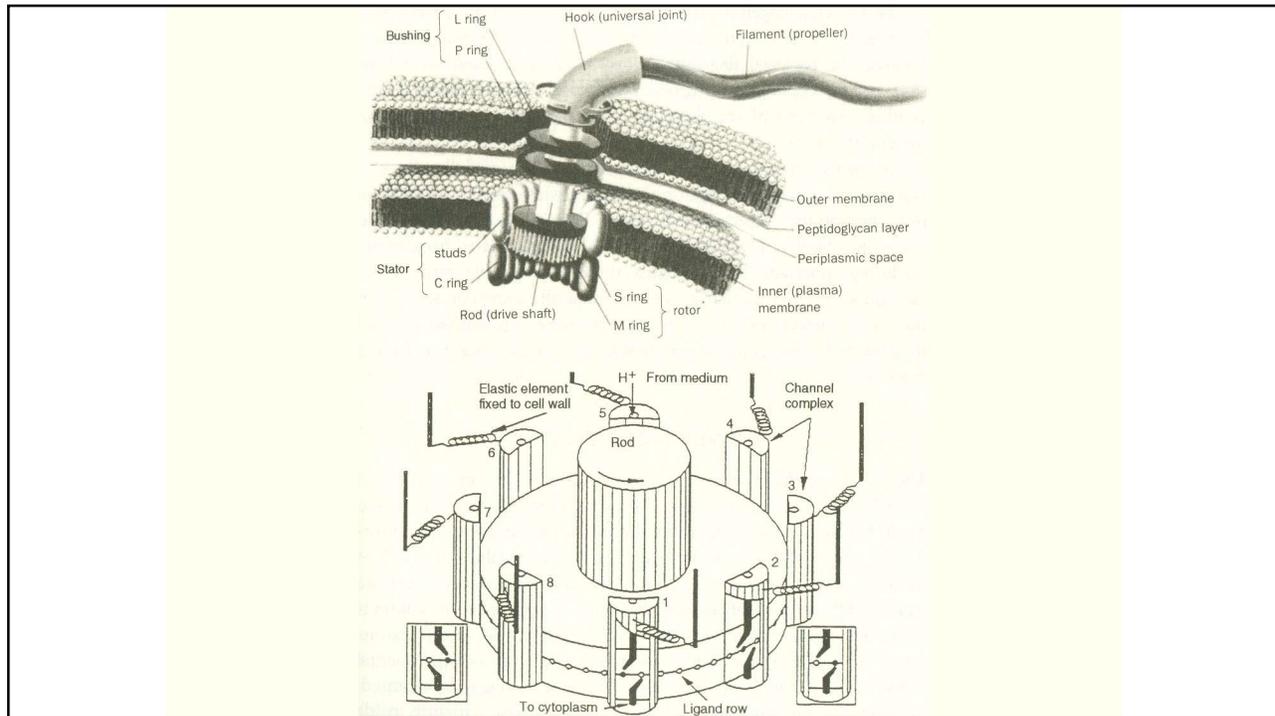


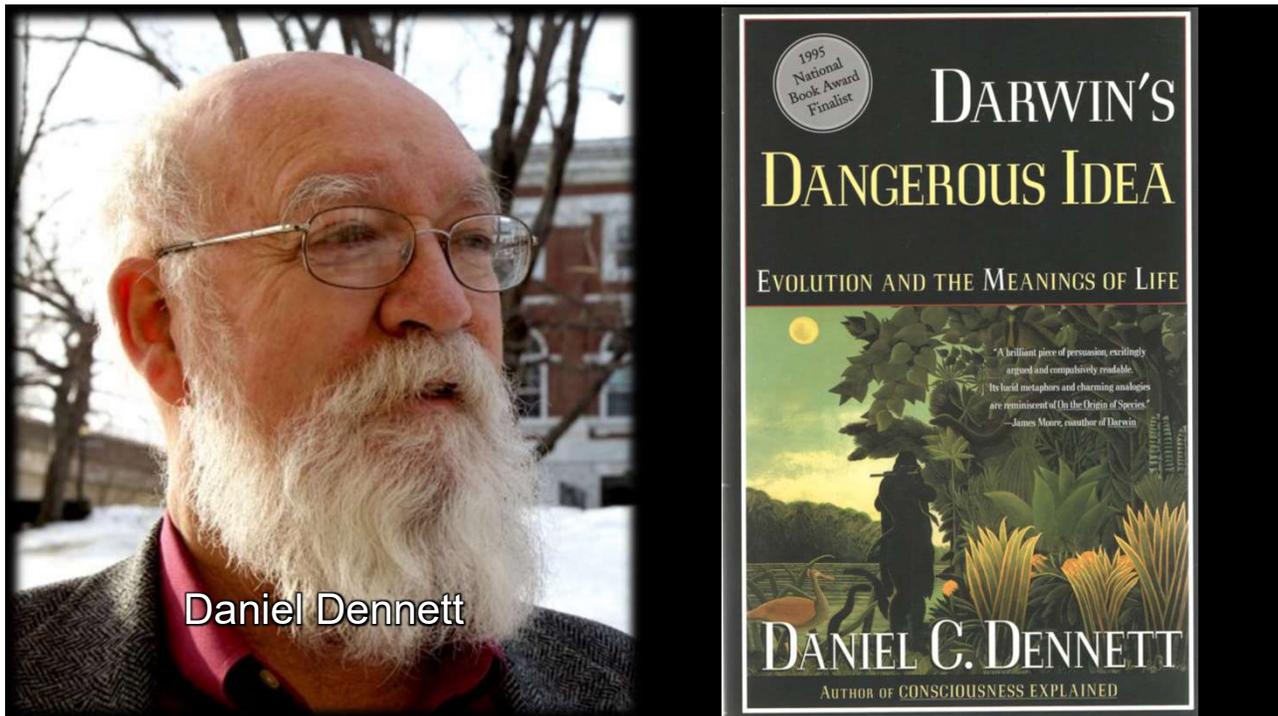
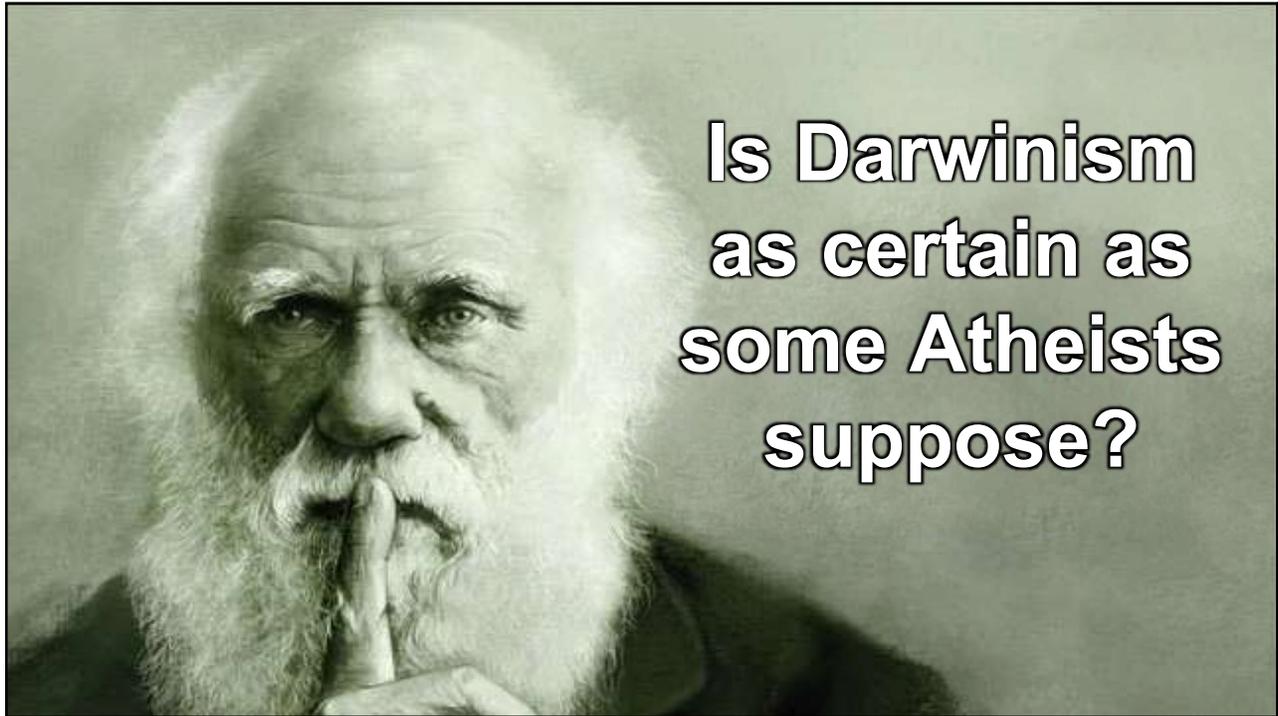


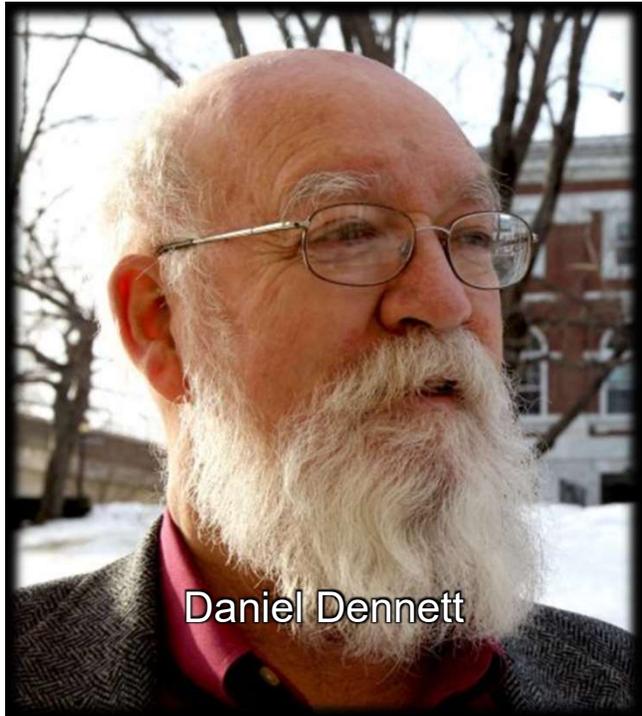
Michael J. Behe



Michael J. Behe



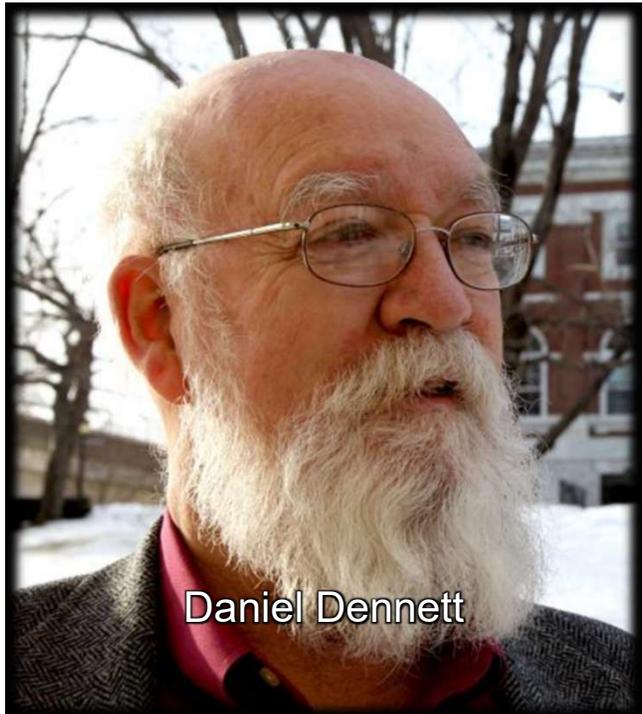




Daniel Dennett

"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**"

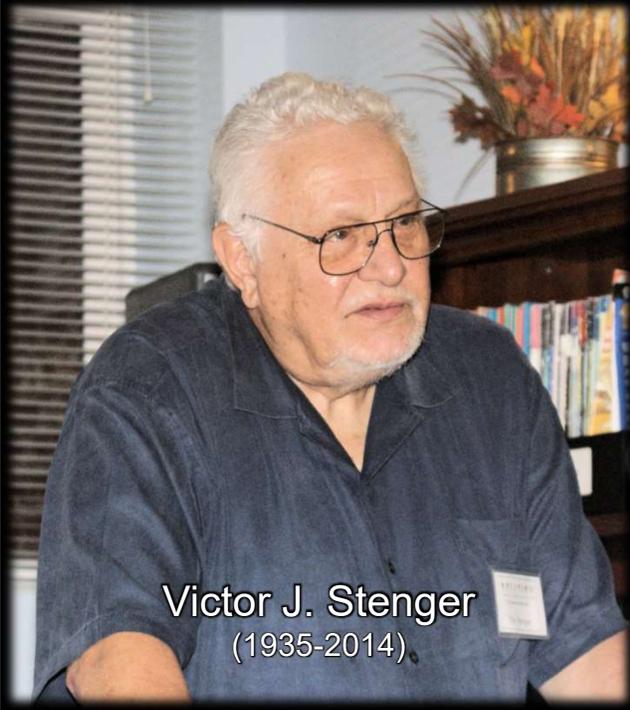
[Daniel C. Dennett, *Darwin's Dangerous Idea*, p. 19]



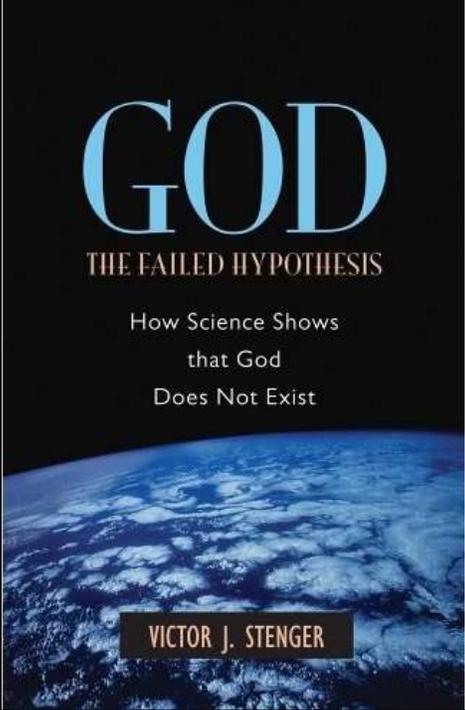
Daniel Dennett

"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)



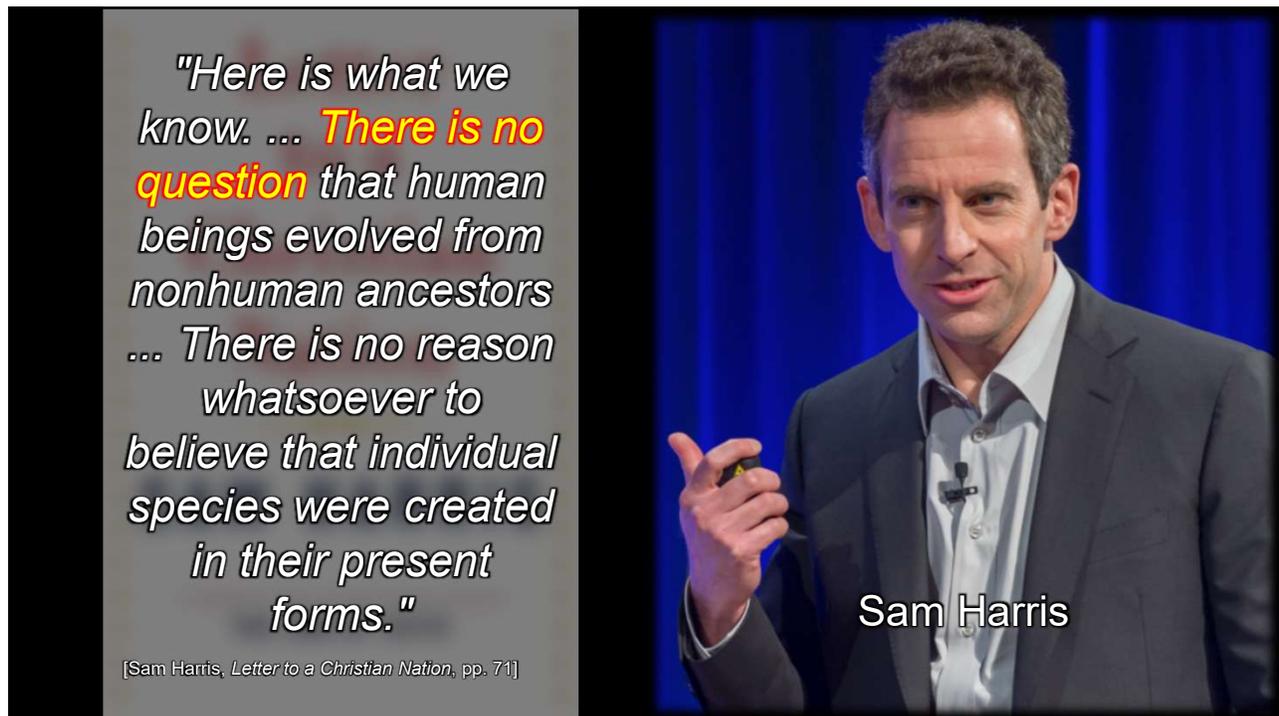
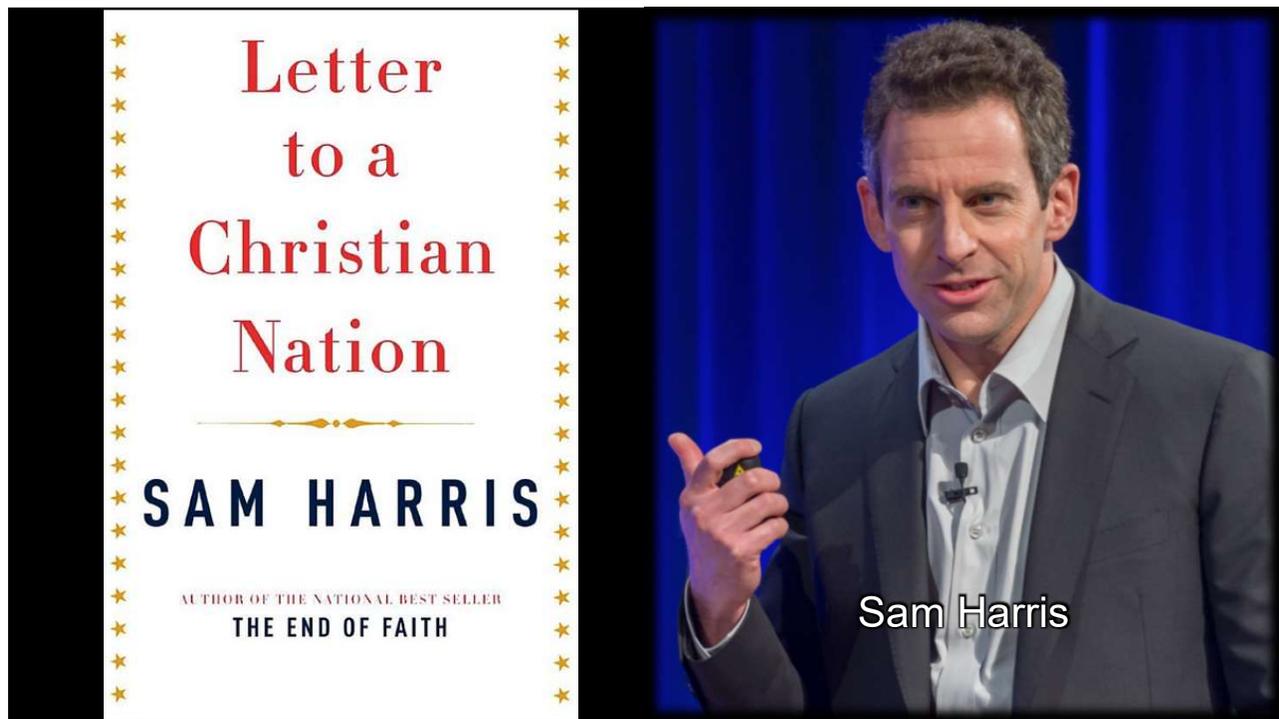
GOD
THE FAILED HYPOTHESIS
How Science Shows
that God
Does Not Exist
VICTOR J. STENGER



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.]





"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."



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

"Scientific journals now document many scientific problems and criticisms of evolutionary theory and students need to know about these as well.... Many of the scientific criticisms of which I speak are well known by scientists in various disciplines, including the disciplines of chemistry and biochemistry, in which I have done my work."
Philip A. Ball, Member National Academy of Sciences, Emeritus Dean, Professor at Pennsylvania State University

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A SCIENTIFIC DISSENT
FROM DARWINISM

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



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“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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A SCIENTIFIC DISSENT FROM DARWINISM

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

This was last publicly updated 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 Belousov	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. Ebedin	Professor, The State University of Campinas (Brazil)	Member, Brazilian Academy of Science

Joseph Atkinson	Ph.D. Organic Chemistry	Massachusetts Institute of Technology
Dennis Dean Rathman	Staff Scientist	MIT Lincoln Laboratory
Richard Austin	Assoc. Prof. & Chair, Biology & Natural Sciences	Piedmont College
Richard Anderson	Assistant Professor of Environmental Science and Policy	Duke University
Raymond C. Mjolsness	Ph.D. Physics	Princeton University
John Baumgardner	Ph.D. Geophysics & Space Physics	University of California, Los Angeles
Glenn R. Johnson	Adjunct Professor of Medicine	University of North Dakota School of Medicine
George Bennett	Associate Professor of Chemistry	Millikin University
Robert L. Waters	Lecturer, College of Computing	Georgia Institute of Technology
David Berinski	Ph.D. Philosophy	Princeton University
James Robert Dickens	Ph.D. Mechanical Engineering	Texas A&M University
Phillip Bishop	Professor of Kinesiology	University of Alabama
Jeffrey M. Jones	Professor Emeritus in Medicine (Ph.D. Microbiology and M.D.)	University of Wisconsin-Madison
Donald R. Mull	Ph.D. Physiology	University of Pittsburgh
John Bloom	Ph.D. Physics	Cornell University
William Dembski	Ph.D. Mathematics	University of Chicago
Ben J. Stuart	Ph.D. Chemical & Biochemical Engineering	Rutgers University
Raymond Bohlin	Ph.D. Molecular & Cell Biology	University of Texas, Dallas
Christa R. Koval	Ph.D. Chemistry	University of Colorado at Boulder
John Sordelon	Ph.D. Electrical Engineering	Georgia Institute of Technology
David Richard Carta	Ph.D. Bio-Engineering	University of California, San Diego
Lydia G. Thebeau	Ph.D. Cell & Molecular Biology	Saint Louis University
David Bossard	Ph.D. Mathematics	Dartmouth College
Robert W. Kelley	Ph.D. Entomology	Clemson University
David Bourell	Professor Mechanical Engineering	University of Texas, Austin
Carlos M. Murillo	Professor of Medicine (Neurosurgery)	Autonomous University of Guadalajara (Mexico)
Walter Bradley	Distinguished Professor of Engineering	Baylor University
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John Brejda	Ph.D. Agronomy	University of Nebraska, Lincoln
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Frederick Brooks	Kenan Professor of Computer Science	University of North Carolina at Chapel Hill
Omer Faruk Noyan	Assistant Professor (Ph.D. Paleontology)	Celal Bayar University (Turkey)
Neil Broom	Associate Professor, Chemical & Materials Engineering	University of Auckland (New Zealand)
Malcolm D. Chisholm	Ph.D. Insect Ecology (M.A. Zoology, Oxford University)	University of Bristol (UK)
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Donald Calbreath	Professor, Department of Chemistry	Whitworth College
Pingnan Shi	Ph.D. Electrical Engineering (Artificial Neural Networks)	University of British Columbia (Canada)

Bernard d'Abrera	Visiting Scholar, Department of Entomology	British Museum (Natural History)
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Mae-Wan Ho	Ph.D. Biochemistry	The University of Hong Kong
Donald Ewert	Ph.D. Microbiology	University of Georgia
Russell Carlson	Professor of Biochemistry & Molecular Biology	University of Georgia
Scott Minnich	Associate Professor of Microbiology	University of Idaho
Jeffrey Schwartz	Assoc. Res. Psychiatrist, Dept. of Psychiatry & Biobehavioral Sciences	University of California, Los Angeles
Alexander F. Pugh	Ph.D. Astrophysics	Ukrainian Academy of Sciences (Ukraine)
Ralph Seelke	Professor Emeritus, Molecular and Cellular Biology	University of Wisconsin, Superior
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Frank Tipier	Prof. of Mathematical Physics	Tulane University
John A. Davison*	Emeritus Associate Professor of Biology	University of Vermont
James Tour	Chao Professor of Chemistry	Rice University
Pablo Yepes	Research Associate Professor of Physics & Astronomy	Rice University
David Bolender	Assoc. Prof., Dept. of Cell Biology, Neurobiology & Anatomy	Medical College of Wisconsin
Leo Zacharski	Professor of Medicine	Dartmouth Medical School
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Michael Behe	Professor of Biological Science	Lehigh University
Michael Atchison	Professor of Biochemistry	University of Pennsylvania, Vet School
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Olen R. Brown	Former Professor of Molecular Microbiology & Immunology	University of Missouri, Columbia
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Arlen R. Severson	Professor of Anatomy and Cell Biology	University of Minnesota Medical School, Duluth
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Mohamed Mahmoud Shohayeb	Professor of Microbiology and Molecular Biology	Tanta University
Young Chang	Professor of Mechanical Engineering Technology	Oklahoma State University
Alan K. Walker	Ph.D. Plant Breeding and Cytogenetics	Iowa State University
Jurgis Šuba	Ph.D. in Biology, Zoology	University of Latvia
Gerald R. Chester	Ph.D. Physics	University of Texas, Austin
Abdul Hadi Aldmairi	Ph.D. Organic Synthesis	Cardiff University
Eungchun Cho	Ph.D. Mathematics	Rutgers University
Paul Madtes, Jr.	Professor and Chair of Biology	Mount Vernon Nazarene University
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Umberto Cerruti	Professor of Computational Algebra	University of Turin
T. Timothy Chen	Ph.D. Statistics	University of Chicago
Sarah M. Williams	Ph.D. Environmental Engineering (emphasis in microbiology)	Stanford University
Donald Clark	Ph.D. Physical Biochemistry	Louisiana State University
John Frederick Zino	Ph.D. Nuclear Engineering	Georgia Institute of Technology
Shing-Yan Chiu	Professor of Physiology	University of Wisconsin, Madison
Todd A. Anderson	Ph.D. Computer Science	University of Kentucky
John Cimbala	Professor of Mechanical Engineering	Pennsylvania State University
Chris Swanson	Tutor (Ph.D. Physics, University of Oregon)	Gutenberg College
Kieran Clements	Assistant Professor, Natural Sciences	Toccoa Falls College
John K. Herdtklotz	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. Beaucoage	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 Cominellis	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, Pharmaceuticals & Biomedical Science	University of Georgia

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Thomas Deahl	Ph.D. Radiation Biology	The University of Iowa
Shun Yan Cheung	Associate Professor of Computer Science	Emory University
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
Jonathan C. Boongaarden	Ph.D. Mechanical Engineering	University of Wisconsin
Greg Tate	Ph.D. Plant Pathology	University of California, Davis
William Bordeaux	Chair, Department of Natural & Mathematical Science	Huntington College
Michael Delp	Professor of Physiology	Texas A&M University
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David DeWitt	Chair, Department of Biology & Chemistry	Liberty University
Aaron J. Miller	Ph.D. Physics	Stanford University
Gary Dilts	Ph.D. Mathematical Physics	University of Colorado
Gerald Chubb	Associate Professor of Aviation	Ohio State University
Robert DiSilvestro	Ph.D. Biochemistry	Texas A & M University
Daniel Dix	Associate Professor of Mathematics	University of South Carolina
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David Prentice	Professor, Department of Life Sciences	Indiana State University
Kenneth Dormer	Ph.D. Biology & Physiology	University of California, Los Angeles
Ernest Prabhakar	Ph.D. Experimental Particle Physics	California Institute of Technology
John Dougherty	Ph.D. Aerospace & Mechanical Engineering	University of Arizona
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Pattie 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	Utah State University
	Fellow	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
Stephen C. Knowles	Ph.D. Marine Science	University of North Carolina, Chapel Hill
Marvin Fritzlre	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)
Steven Gollmer	Ph.D. Atmospheric Science	Purdue University
Sun Uk Kim	Ph.D. Biochemical Engineering	University of Delaware
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 Arlon	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)
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Ralph A. Henderson Jr.	Professor Emeritus, Department of Clinical Sciences	Auburn University, College of Veterinary Medicine
Carlos Alberto Mourão Jr.	Chief of Physiology Department	Universidade Federal de Juiz de Fora (Brazil)
Moses Noh	Ph.D. in Mechanical Engineering	Georgia Institute of Technology
Allan L. Bleecker	Ph.D. Biology	Rutgers University
John Rokos	Ph.D. Biochemistry	University of London
Dave B. Tribble	Professor of Physics (retired)	Loyola University of Chicago
Edgar P. Moraes	Professor of Chemistry	Federal University of Rio Grande do Norte (Brazil)
James P. O'Halloran	Ph.D. Psychology	University of California, Irvine
Isak 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.

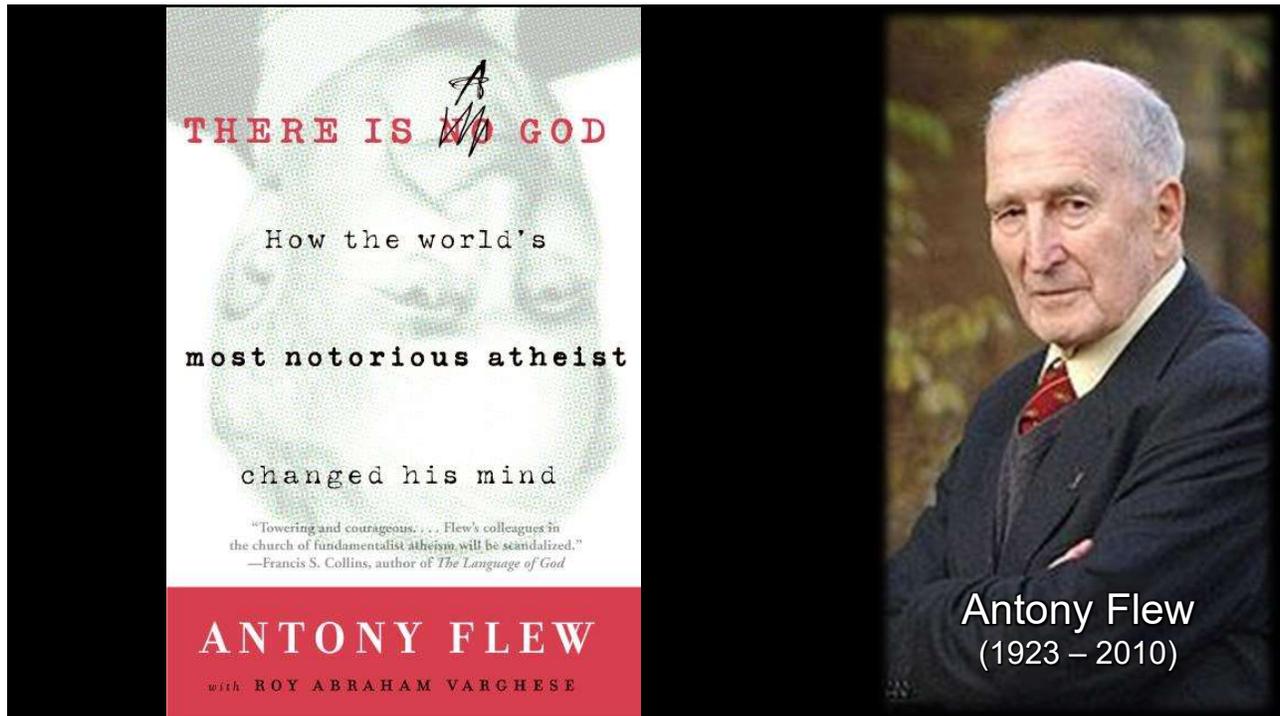
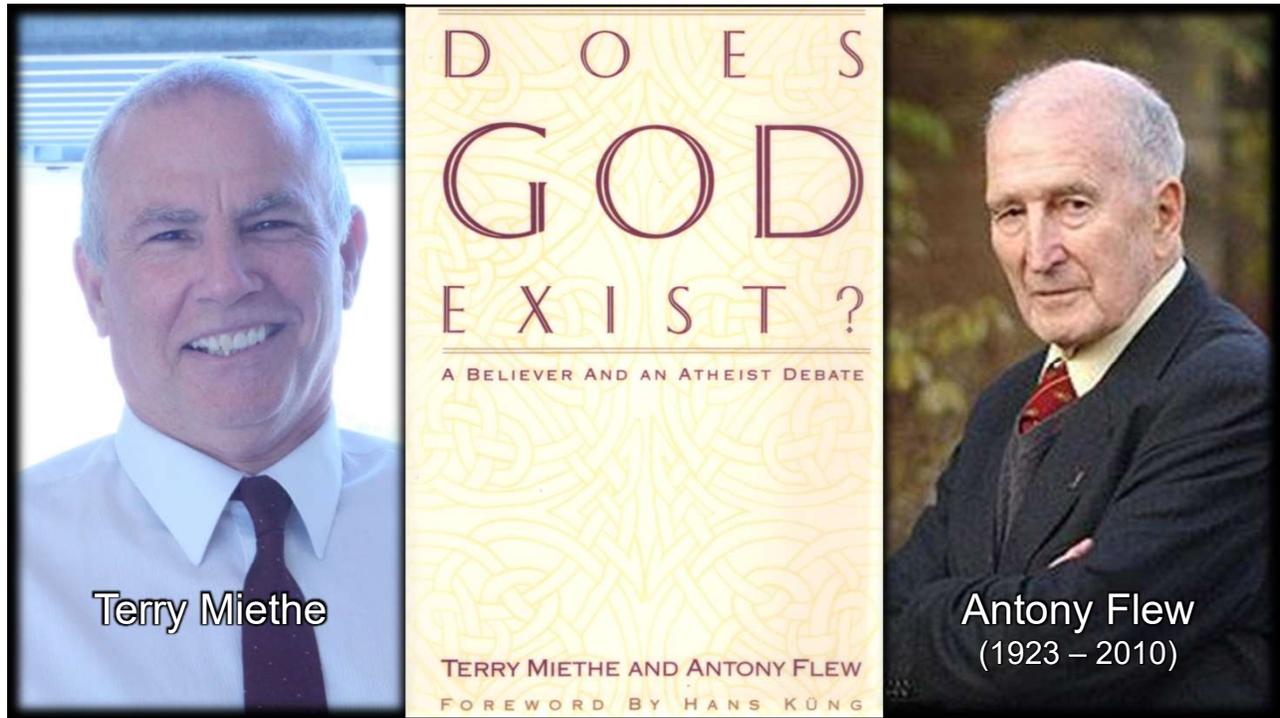
"Darwinian evolution is a well-established theory."

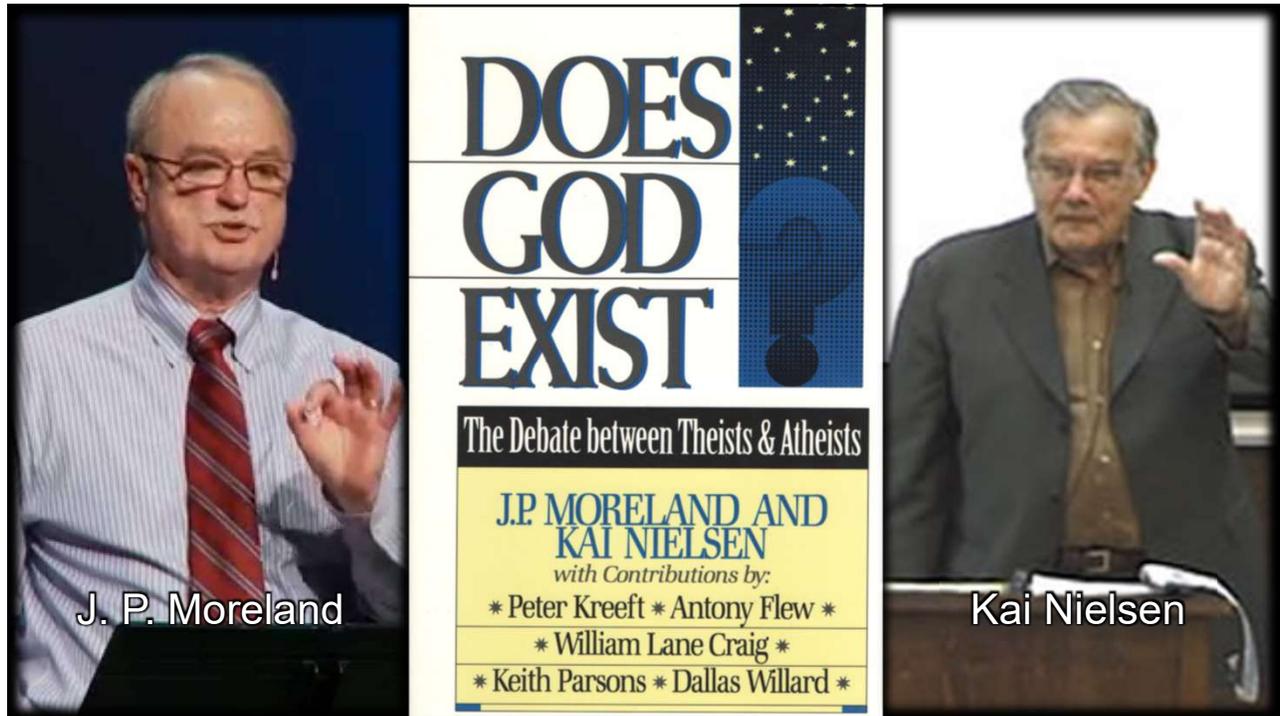
Challenging evolution is on par with challenging the Moon landing.

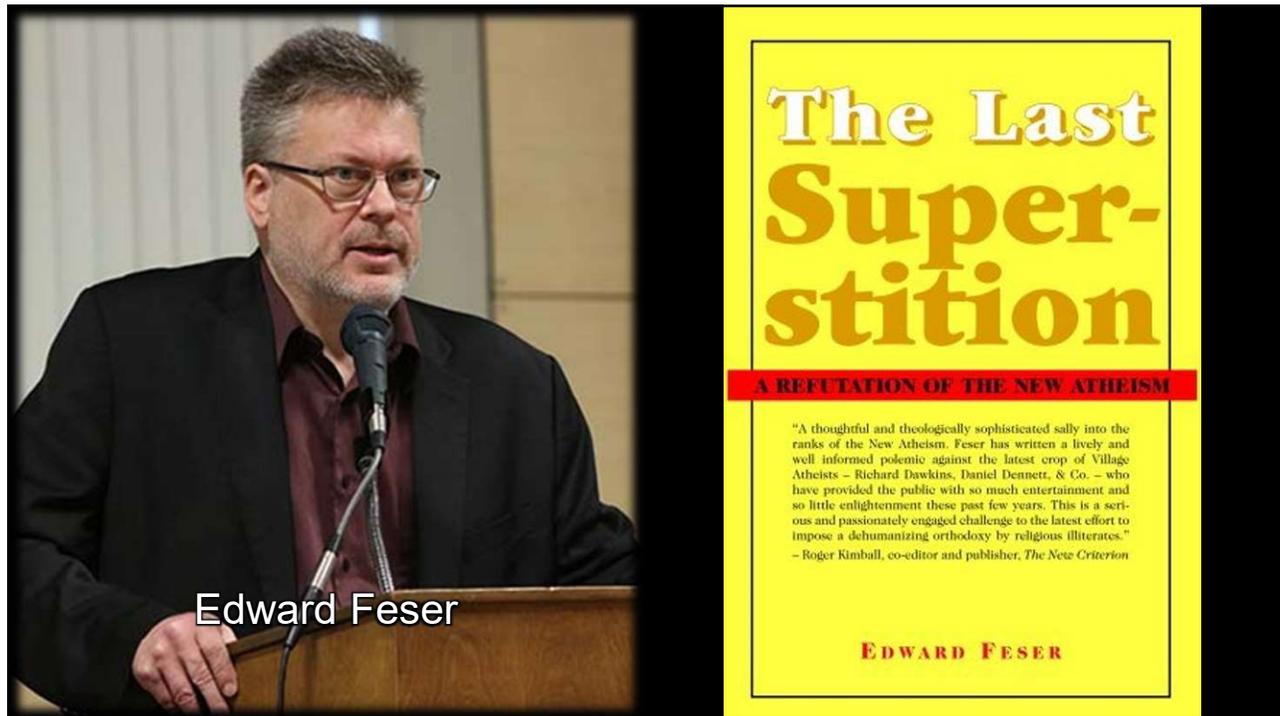
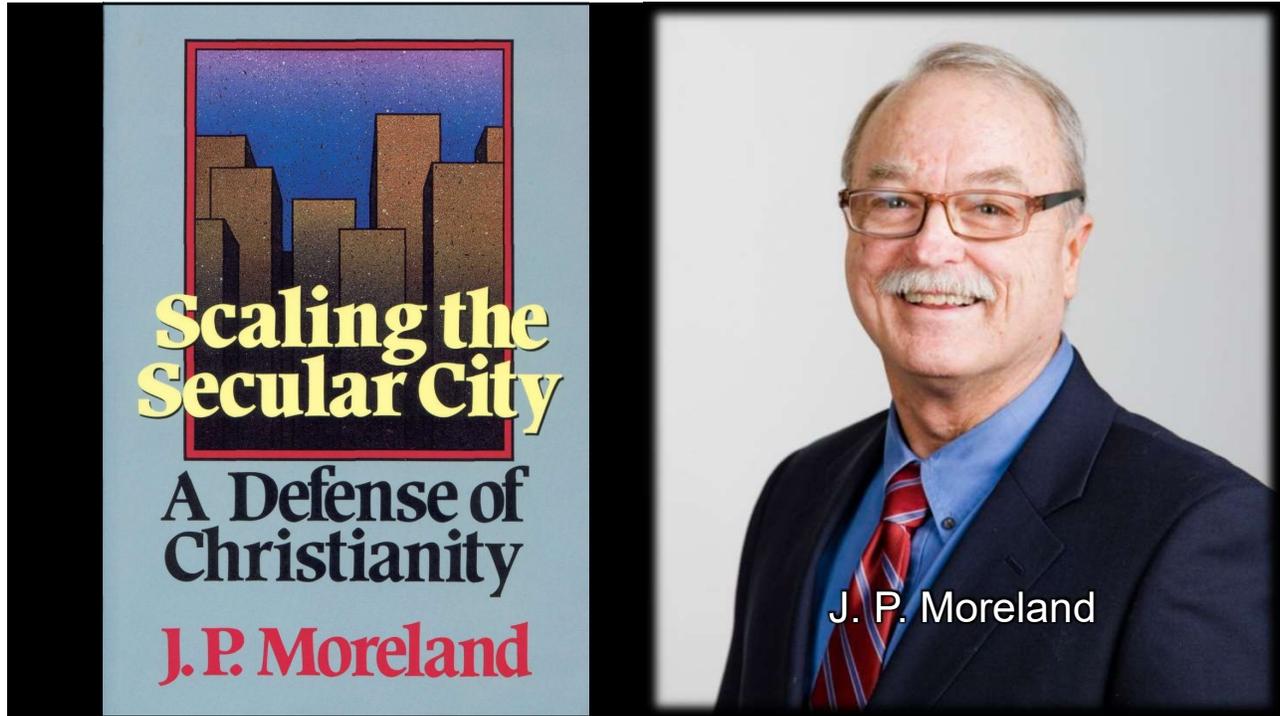
"There is no question . . ."

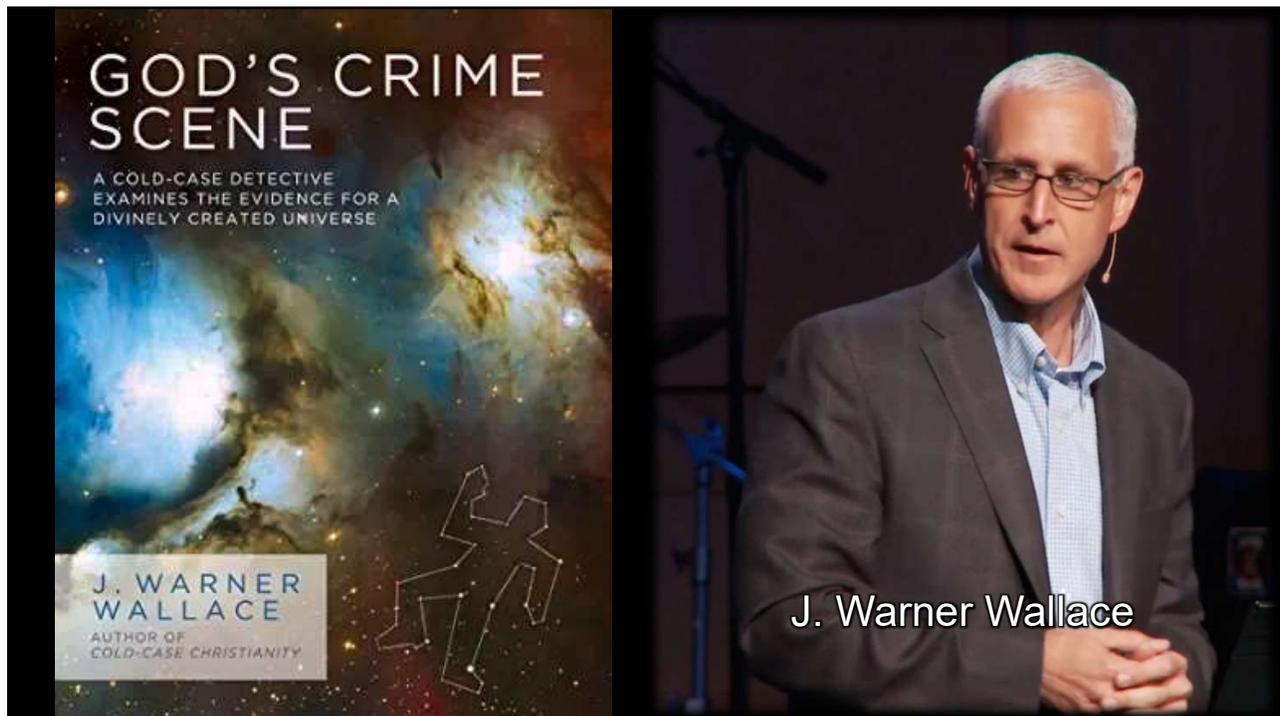
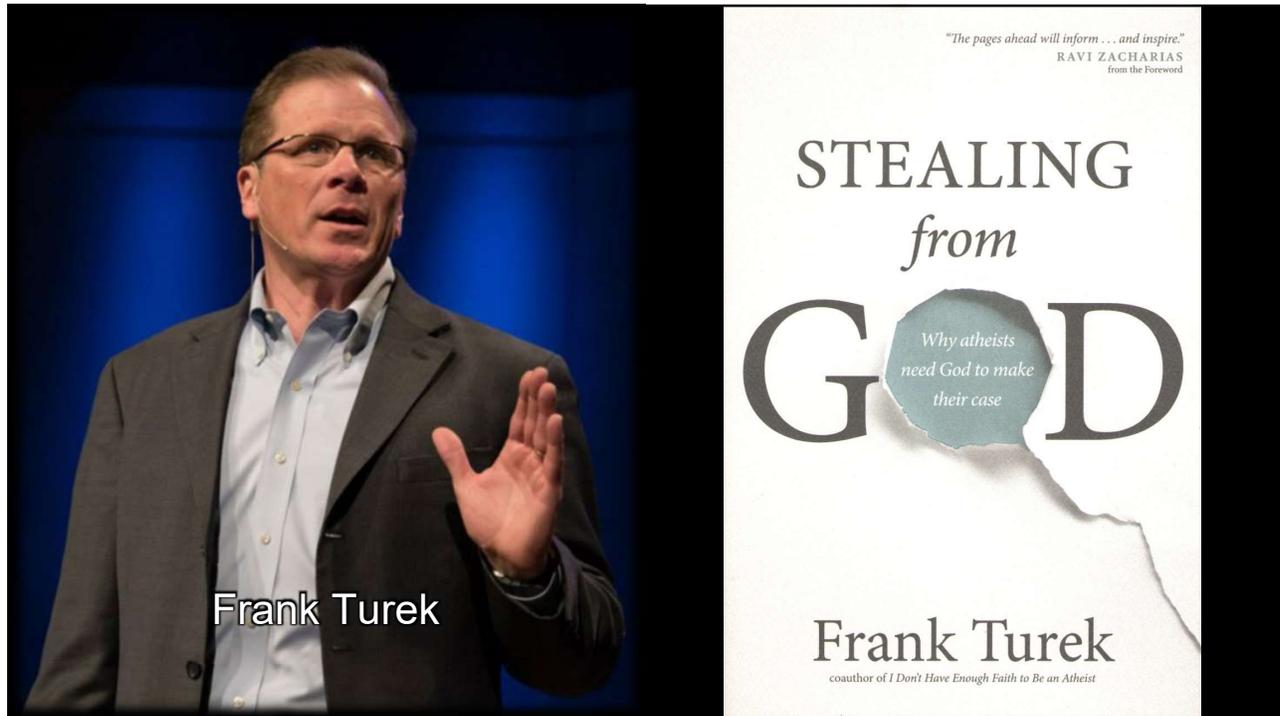
are unwarranted.

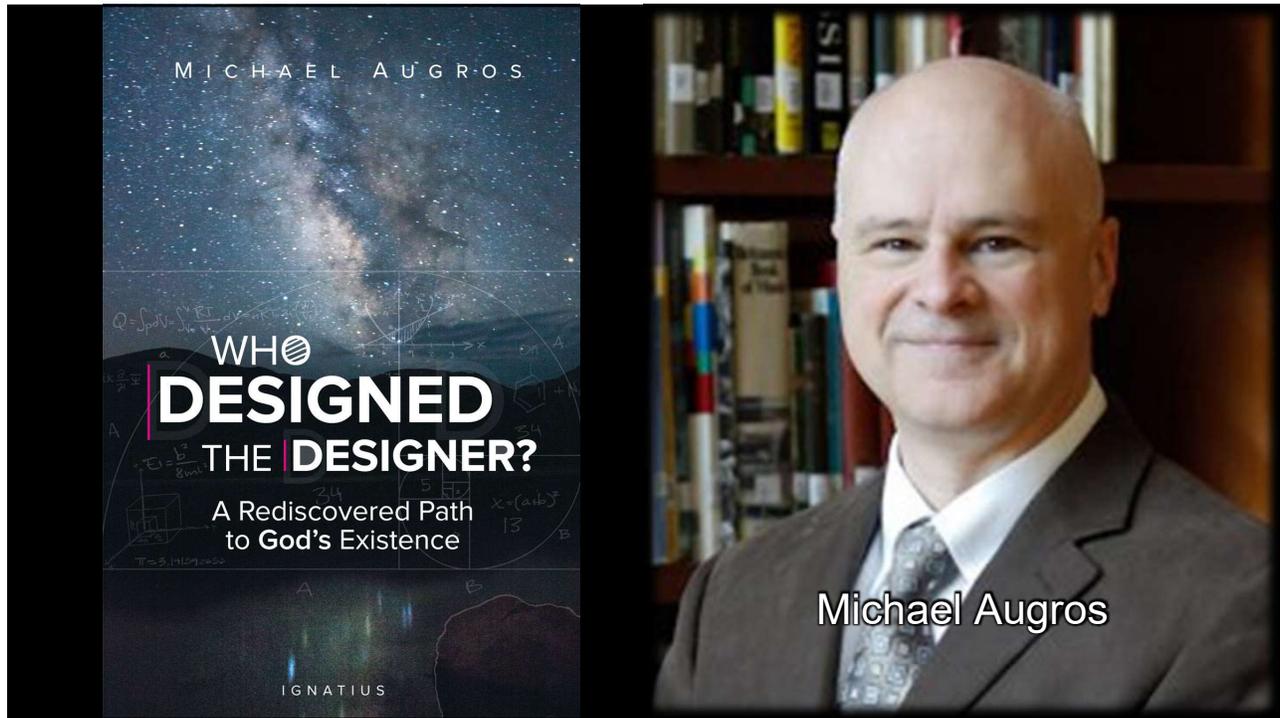


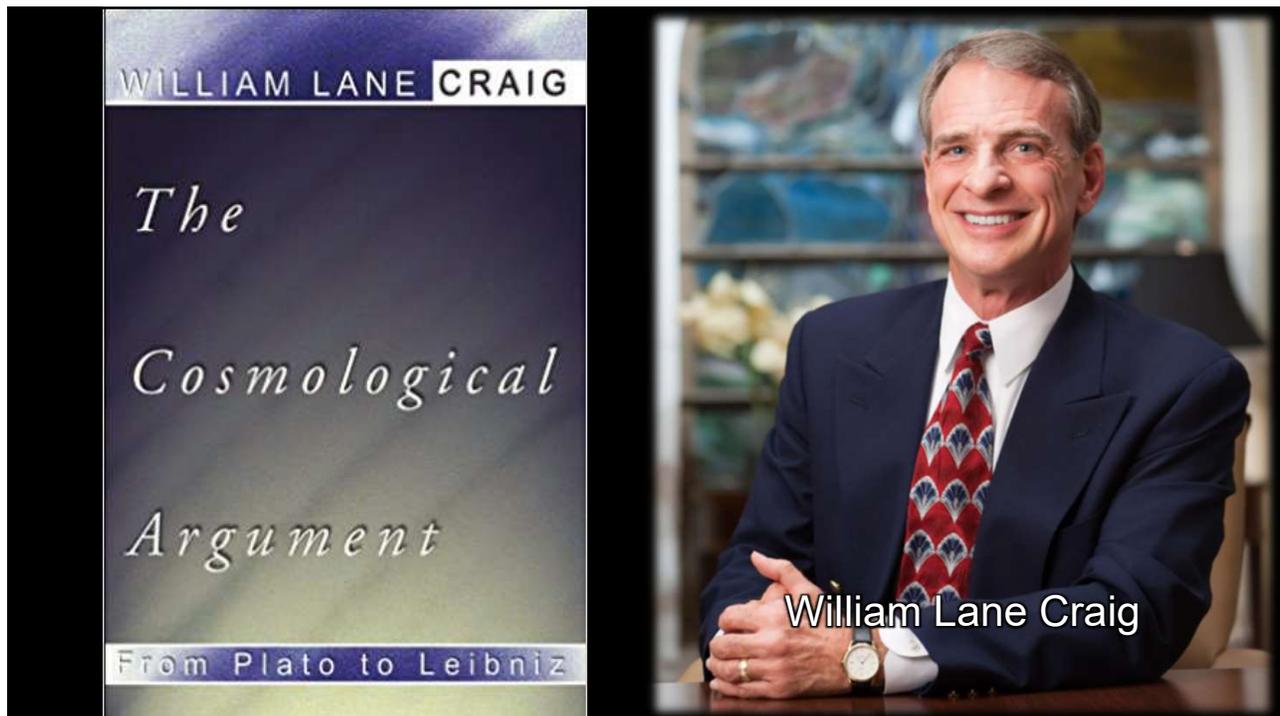
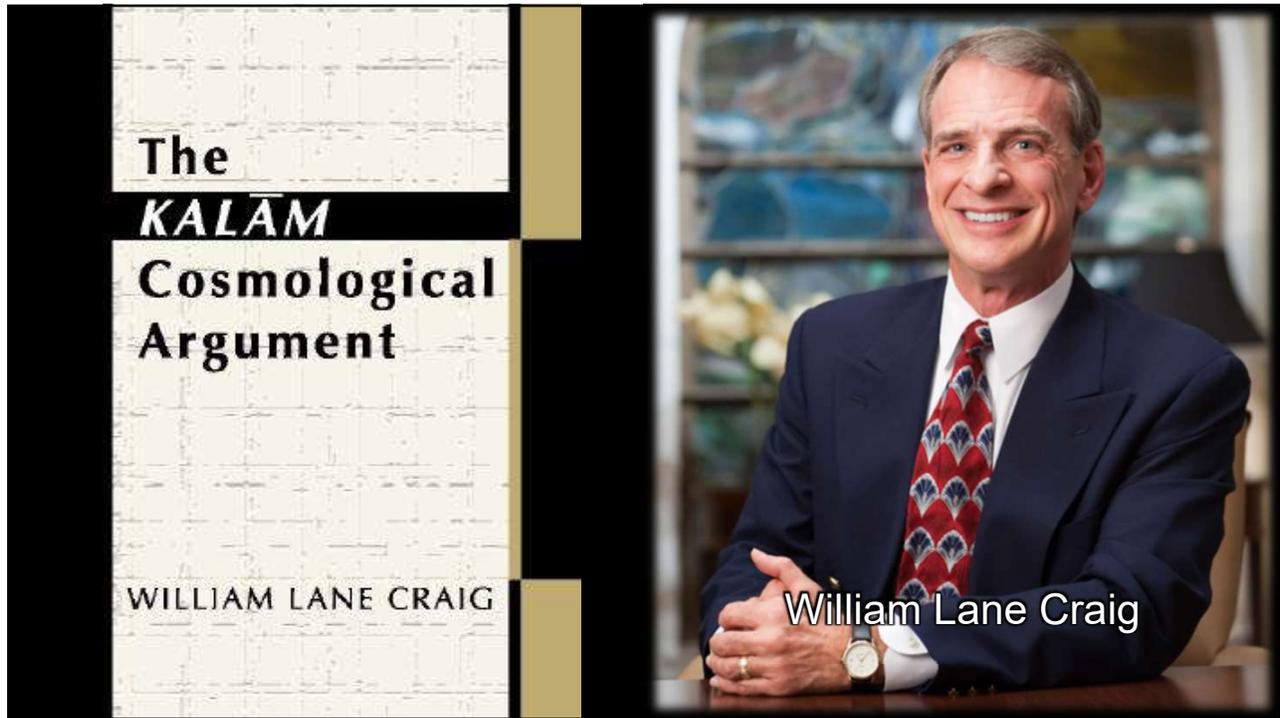


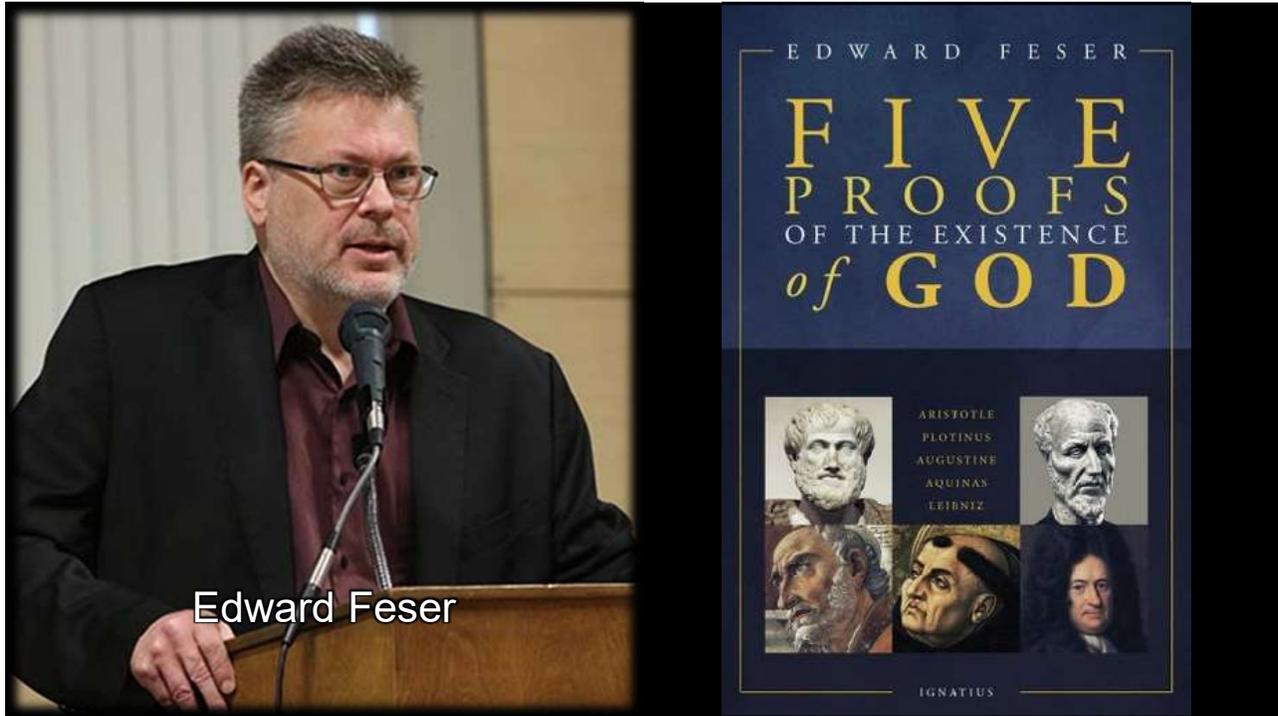












Edward Feser

EDWARD FESER

FIVE PROOFS OF THE EXISTENCE of GOD

ARISTOTLE
PLOTINUS
AUGUSTINE
AQUINAS
LEIBNIZ

IGNATIUS

The image shows a man with glasses and a beard, identified as Edward Feser, speaking at a podium. To his right is the cover of his book 'Five Proofs of the Existence of God'. The cover features the author's name at the top, the title in large gold letters, and a grid of portraits of philosophers: Aristotle, Plotinus, Augustine, Aquinas, and Leibniz. The publisher's name, Ignatius, is at the bottom.



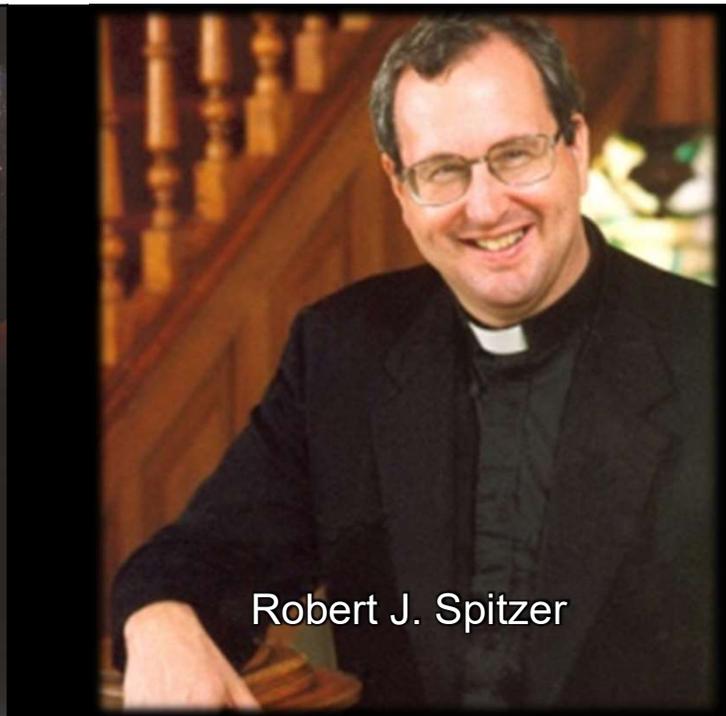
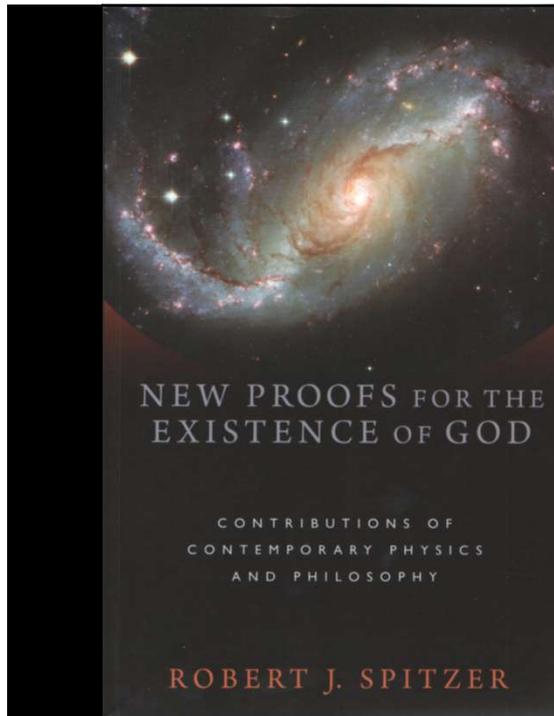
Gaven Kerr

GAVEN KERR, OP

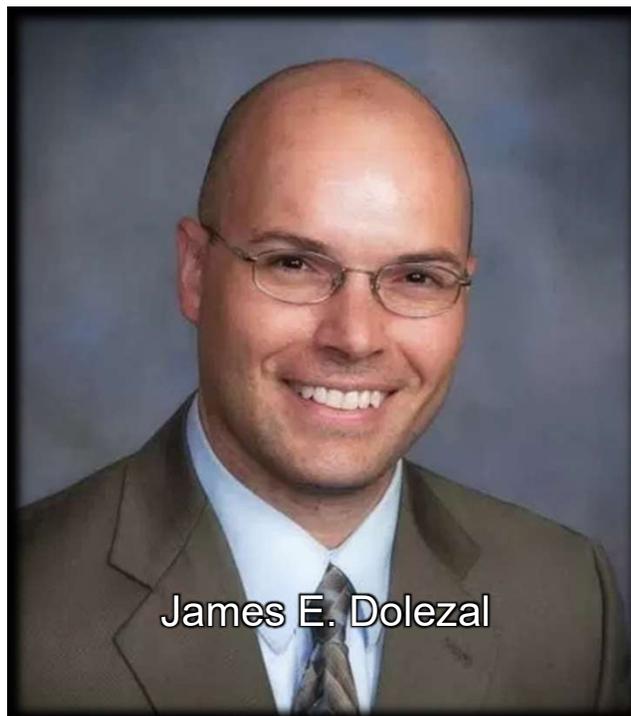
Aquinas's Way to God

The Proof in *De Ente et Essentia*

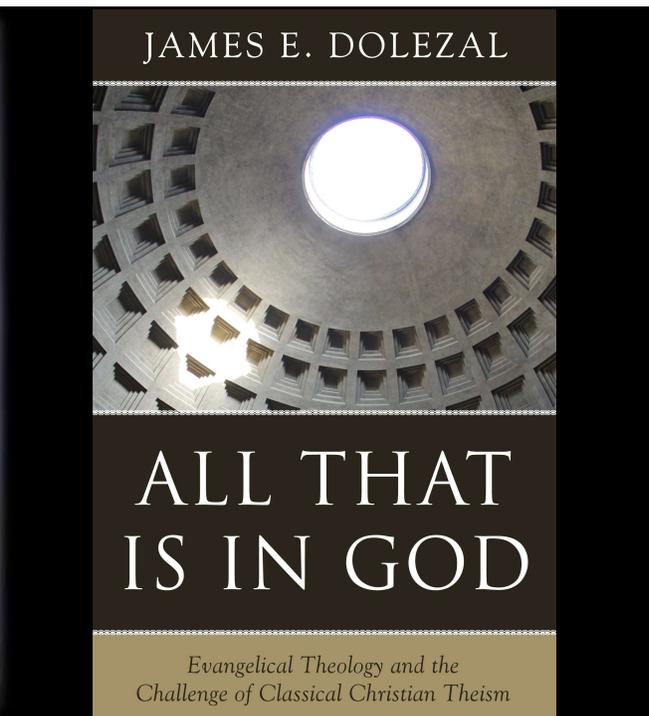
The image shows a man with a beard and a blue necklace, identified as Gaven Kerr, smiling. To his right is the cover of his book 'Aquinas's Way to God'. The cover features a portrait of a man in a dark hood, likely Thomas Aquinas, with a halo. The author's name and the title are at the bottom, along with the subtitle 'The Proof in De Ente et Essentia'.

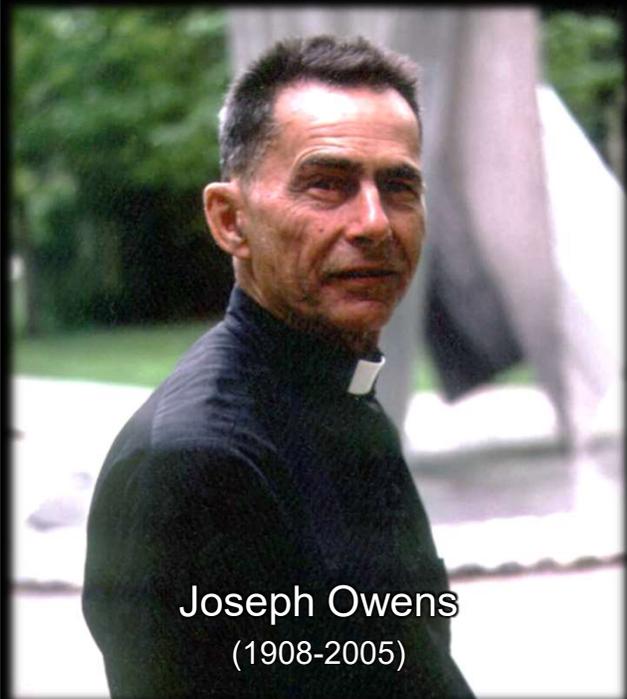


Robert J. Spitzer

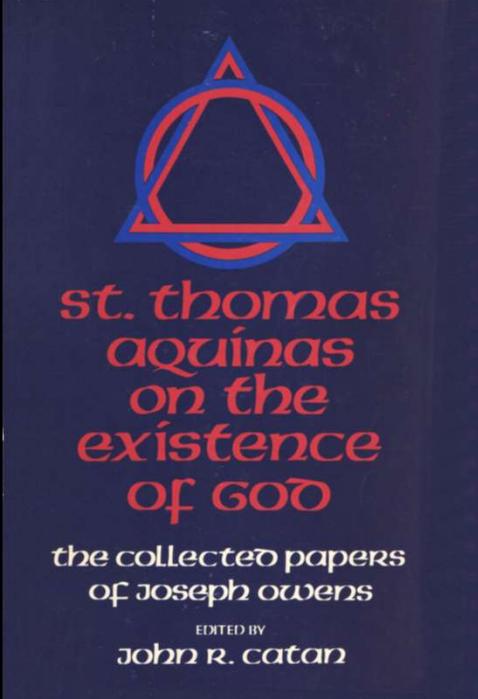


James E. Dolezal





Joseph Owens
(1908-2005)



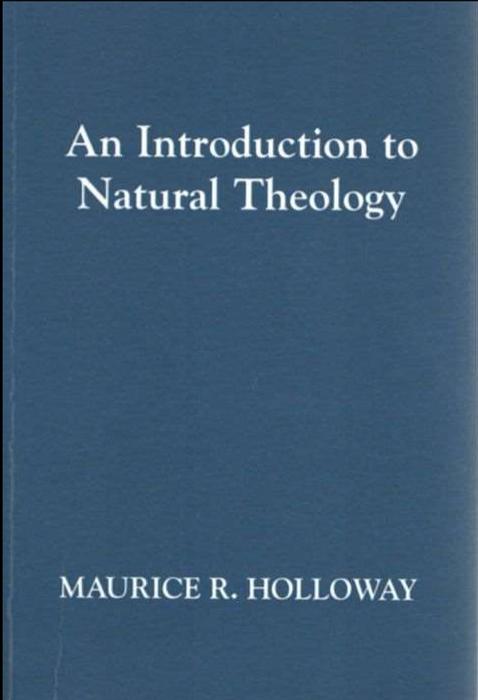
st. thomas
aquinas
on the
existence
of god

the collected papers
of joseph owens

EDITED BY
john r. catan



Maurice R. Holloway
(1920-2008)



An Introduction to
Natural Theology

MAURICE R. HOLLOWAY

**DOES
GOD
EXIST?**

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THE GREAT DEBATE

DR. RICHARD HOWE VS. DR. MICHAEL SHERMER

APRIL 30TH, 2010
MODERATED BY DR. ALEX McFARLAND

DVD