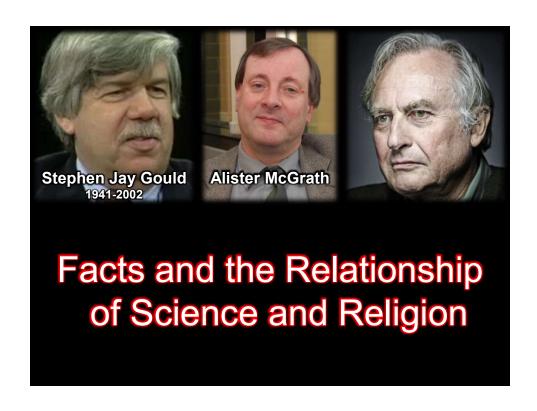




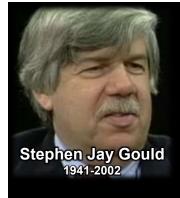
"There is an answer to every such question [about miracles], whether or not we can discover it in practice, and it is a strictly scientific answer. The methods we should use to settle the matter, in the unlikely event that relevant evidence ever became available, would be purely and entirely scientific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







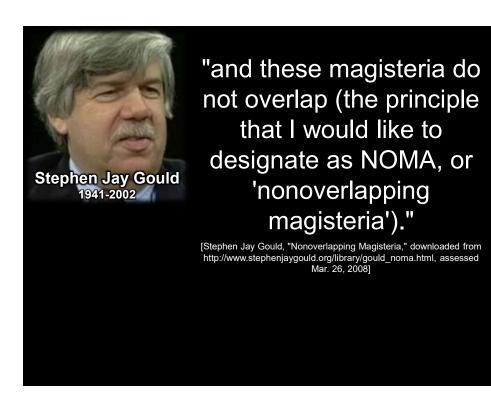
- Paleontologist, evolutionary biologist, and historian of science
- Taught at Harvard and New York University
- Famous for his theory of punctuated equilibrium
- Was very interested in the relationship between science and religion



"We may, I think, adopt this word and concept to express the central point of this essay and the principled resolution of supposed 'conflict' or 'warfare' between science and religion.



"No such conflict should exist because each subject has a legitimate magisterium, or domain of teaching authority—

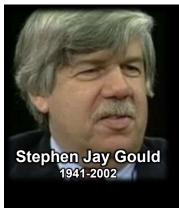




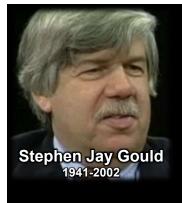
"The net of science covers the empirical universe: what is it made of (fact) and why does it work this way (theory).



"The net of religion extends over questions of moral meaning and value.

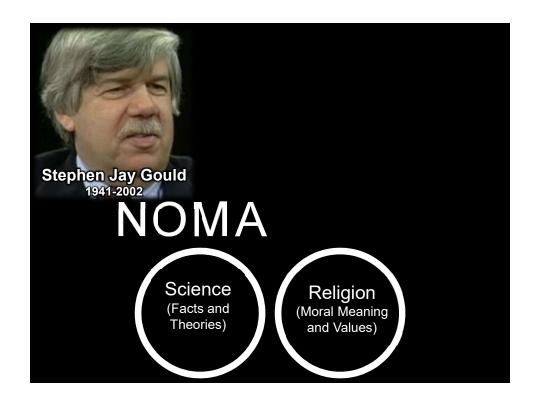


"These two magisteria do not overlap, nor do they encompass all inquiry (consider, for starters, the magisterium of art andthe meaning of beauty).



"To cite the arch cliches, we get the age of rocks, and religion retains the rock of ages; we study how the heavens go, and they determine how to go to heaven."



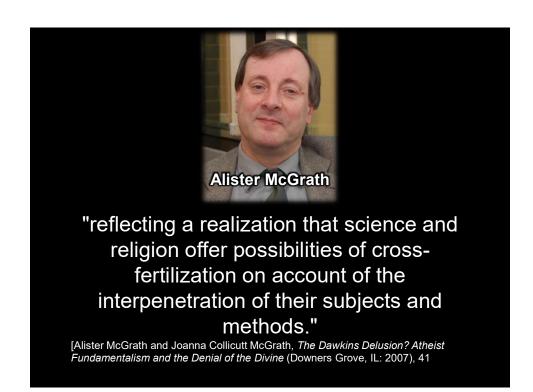




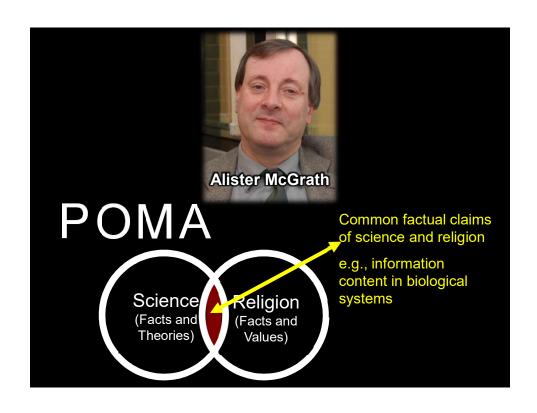
- Andreas Idreos Professorship of Science and Religion at Oxford University
- Senior Research Fellow at Harris Manchester College, Oxford

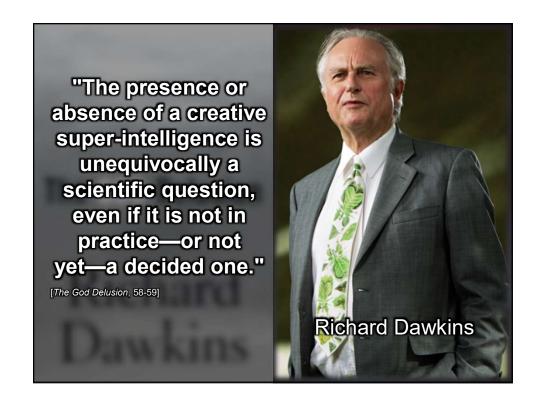


"There is, of course, a third option—that of 'partially overlapping magisteria' (a POMA, so to speak),









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

[The God Delusion, 58-59]

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

[The Blind Watchmaker, 37-38]

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[The God Delusion, 58-59]

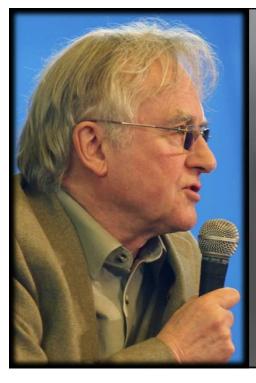
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[The Blind Watchmaker, 37-38]

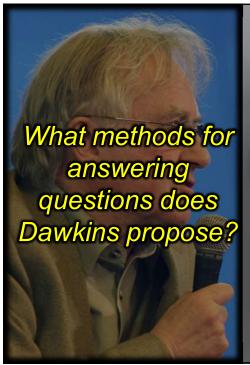
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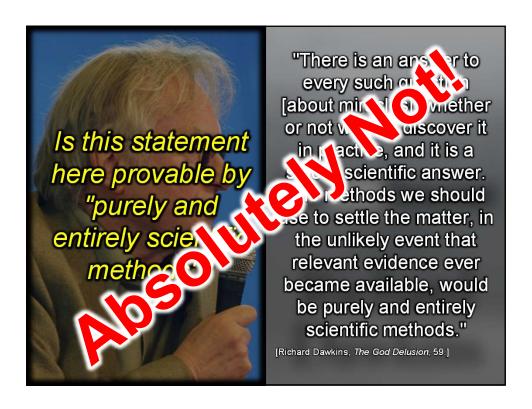


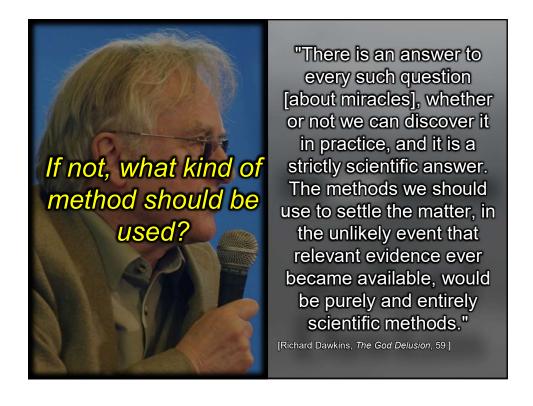
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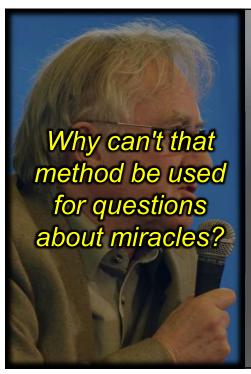
[Richard Dawkins, The God Delusion, 59.]

According to Dawkins, should scientific methods be used only for certain kinds of questions or for every kind of question?

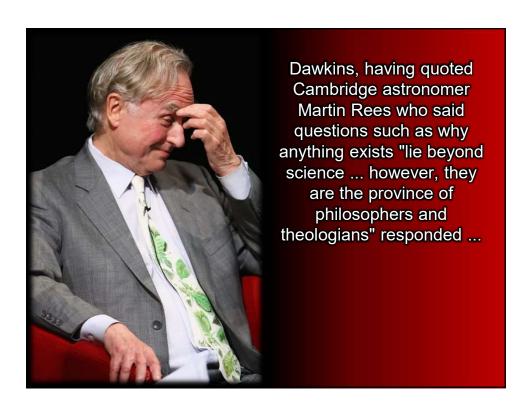
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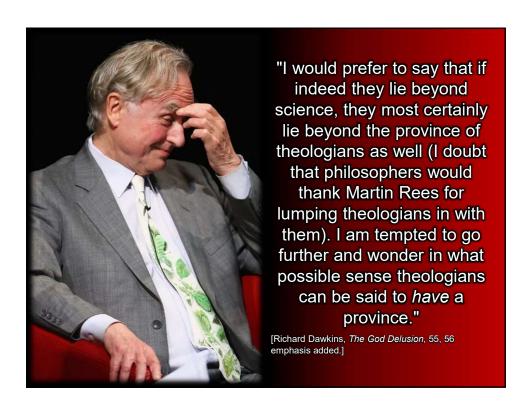






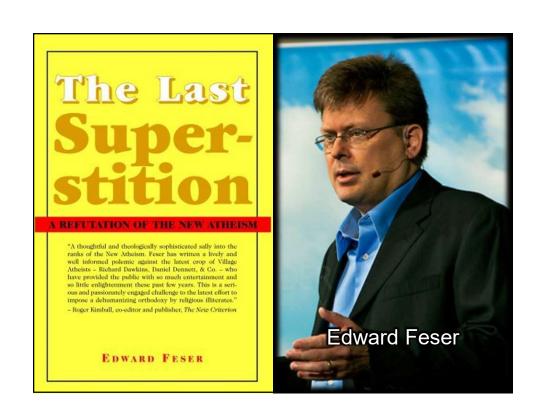
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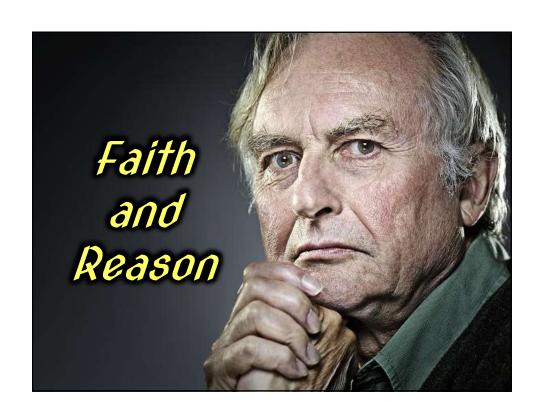


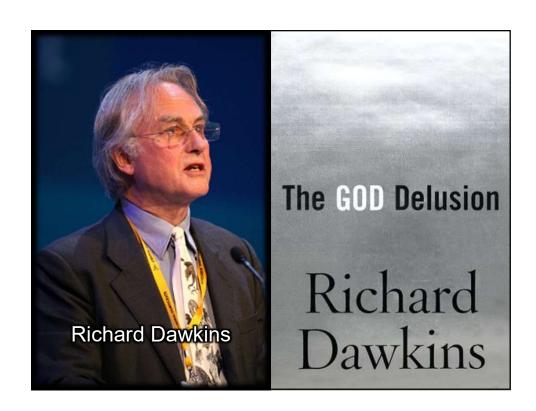


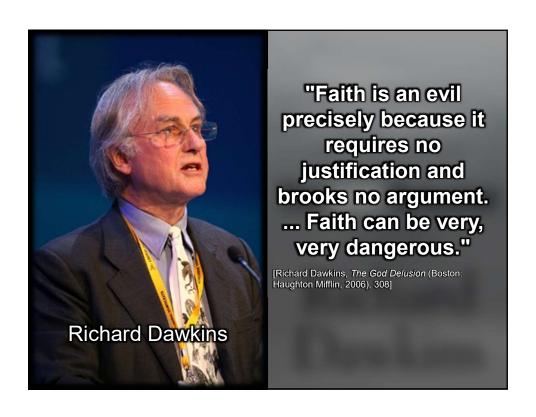


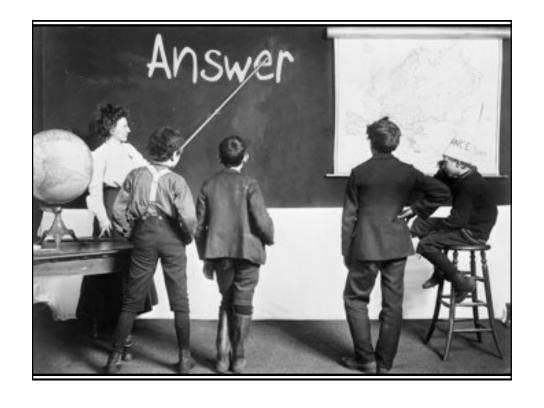




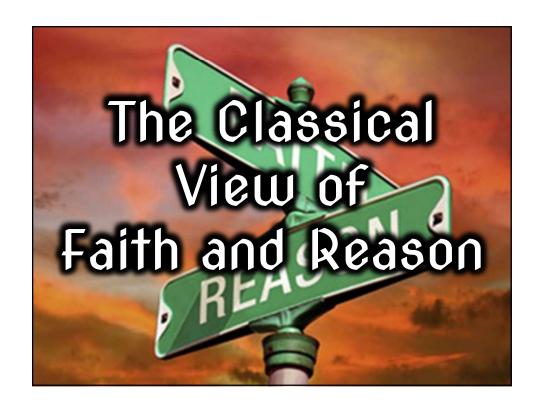




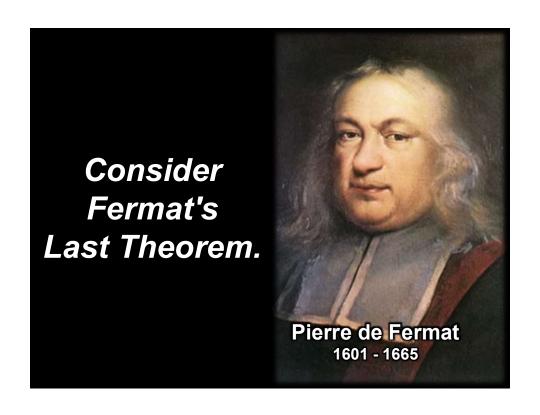


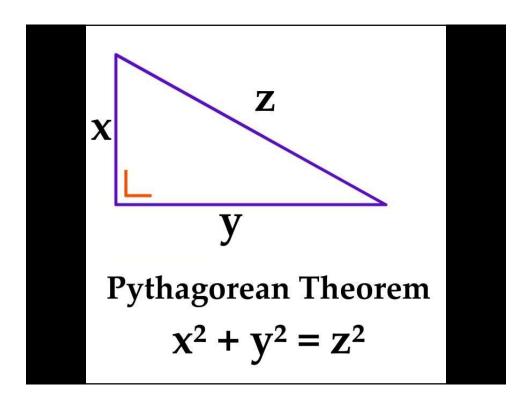


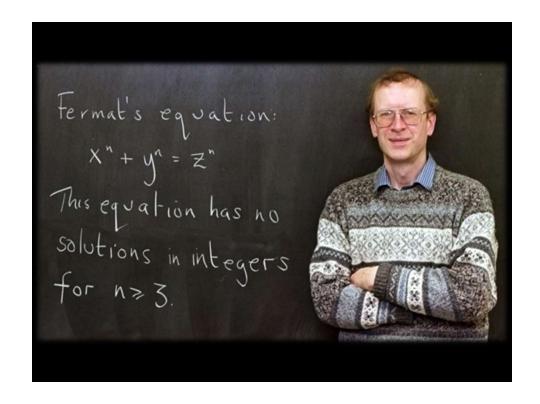
While it may be true that some religious people have been part of the problem by how they view the role of reason in the Christian life, it is only because they have failed to understand the proper relationship between faith and reason.











Annals of Mathematics, 142 (1995), 443–551

Modular elliptic curves and Fermat's Last Theorem

By Andrew Wiles*

For Nada, Clare, Kate and Olivia

Cubum autem in duos cubos, aut quadratoquadratum in duos quadra vocum vauem in ause cuose, aut quaeratoquadratum in duos quadra-toquadratos, et generaliter nullam in infinitum ultra quadratum potestatem in duos cjusdem nominis fas est dividere: cujus rei demonstrationem mirabilem sane detexi. Hanc marginis exiguitas non caperet.

Pierre de Fermat

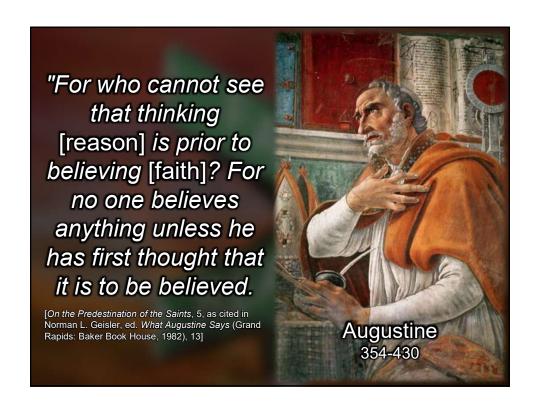
Introduction

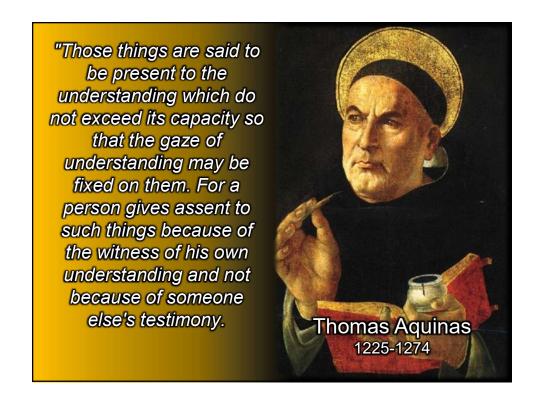
An elliptic curve over \mathbf{Q} is said to be modular if it has a finite covering by a modular curve of the form $X_0(N)$. Any such elliptic curve has the property that its Hasse-Weil zeta function has an analytic continuation and satisfies a functional equation of the standard type. If an elliptic curve over \mathbf{Q} with a given j-invariant is modular then it is easy to see that all elliptic curves with the same j-invariant are modular (in which case we say that the j-invariant is modular). A well-known conjecture which grew out of the work of Shimura and Taniyama in the 1950's and 1960's asserts that every elliptic curve over \mathbf{Q} is modular. However, it only became widely known through its publication in a paper of Weil in 1967 [We] (as an exercise for the interested readerly, in which, moreover, Weil gave conceptual evidence for the conjecture. Although it had been numerically verified in many cases, prior to the results described in this paper it had only been known that finitely many j-invariants were modular. In 1985 Frey made the remarkable observation that this conjecture should imply Fermat's Last Theorem. The precise mechanism relating the two was formulated by Serre as the e-conjecture and this was then proved by Ribet in the summer of 1986. Ribet's result only requires one to prove the conjecture for semistable elliptic curves in order to deduce Fermat's Last Theorem.

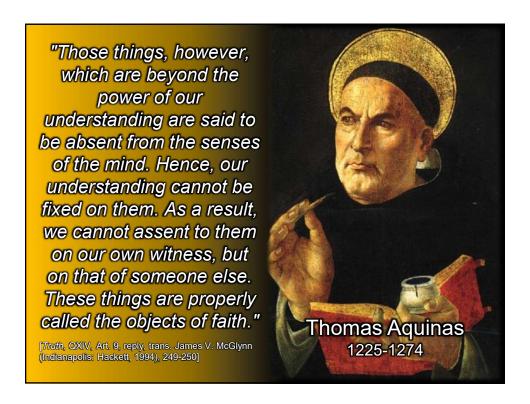
*The work on this paper was supported by an NSF grant

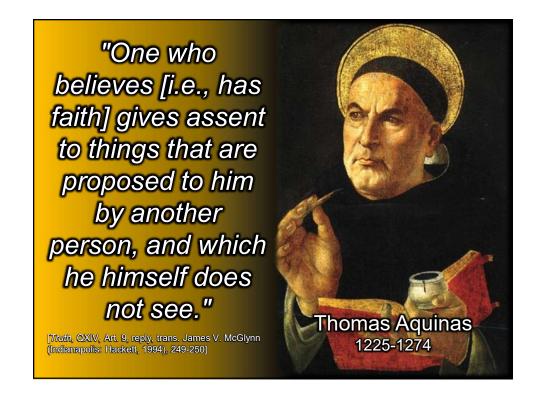


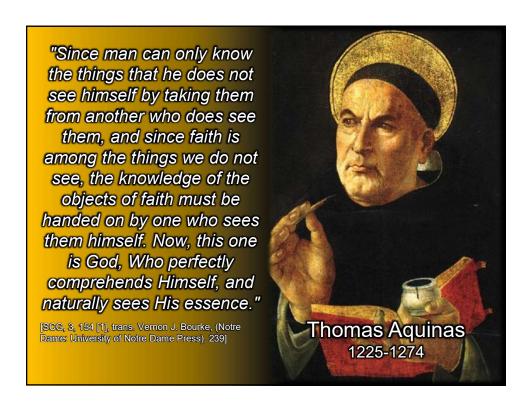


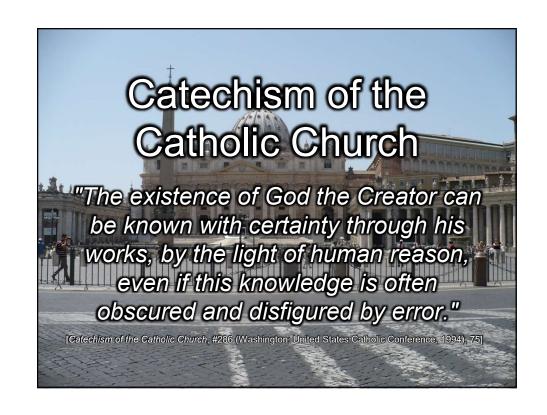


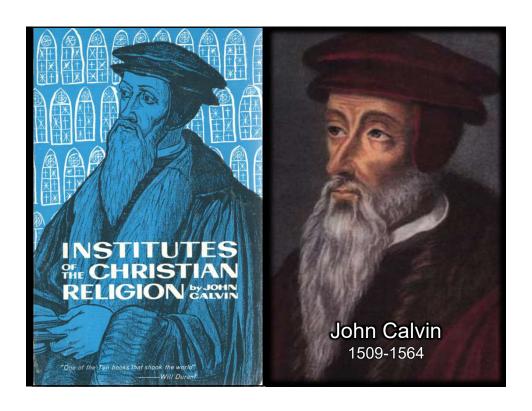


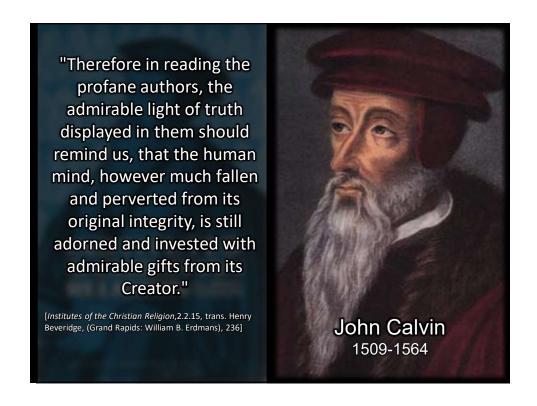


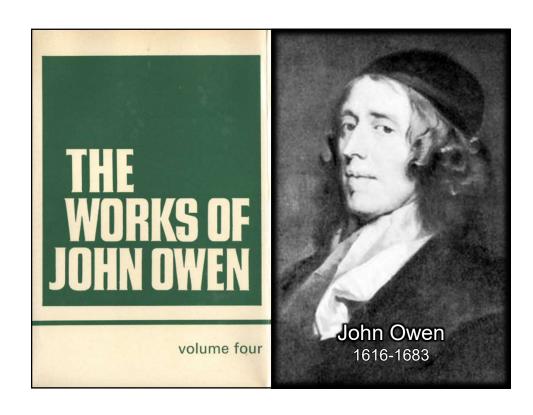


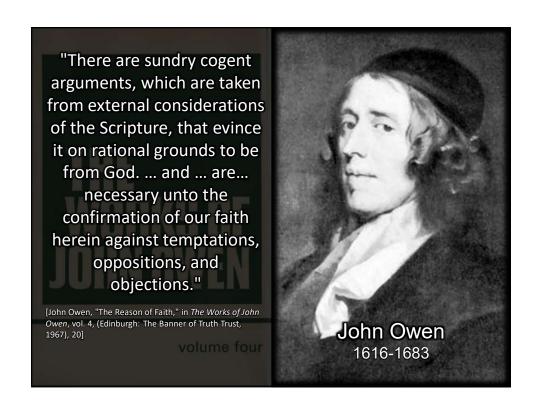




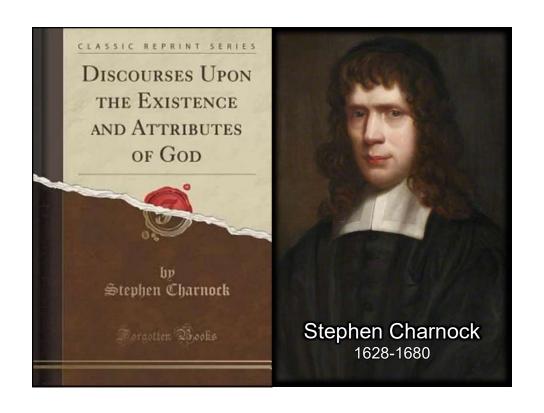




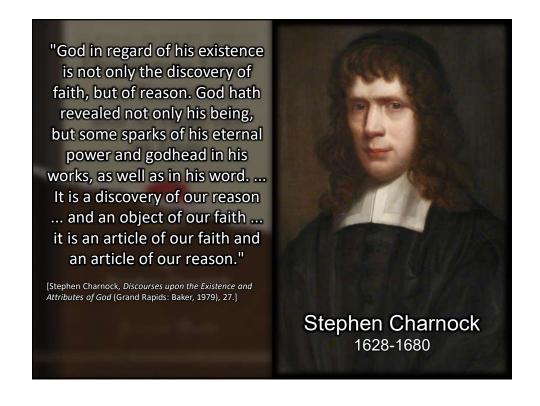


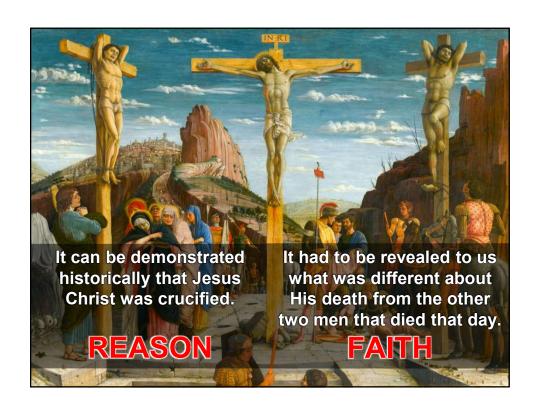


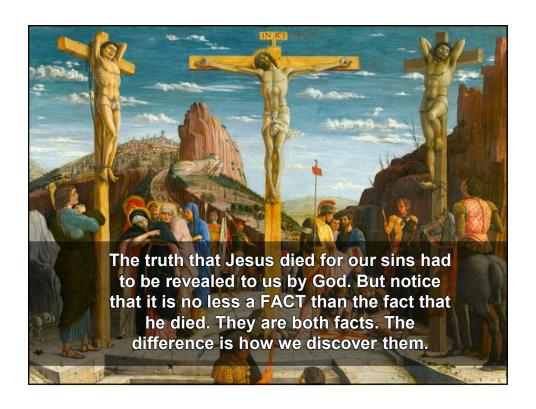


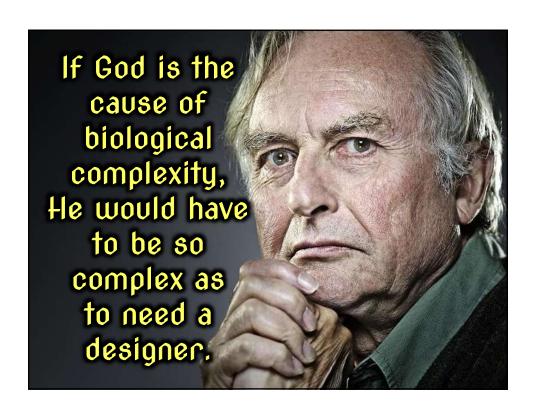


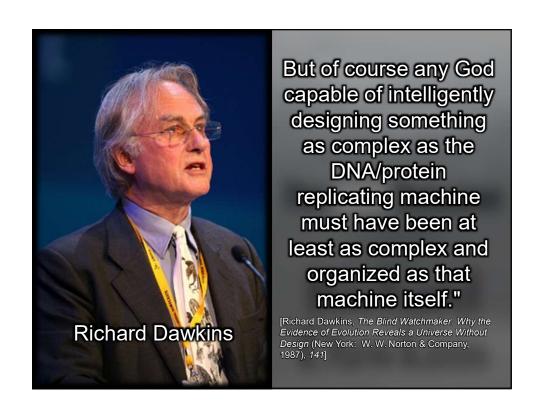


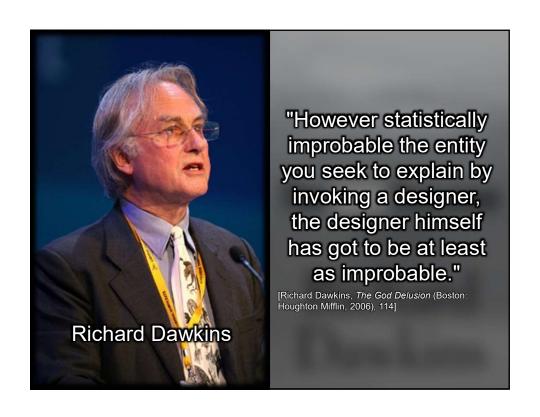




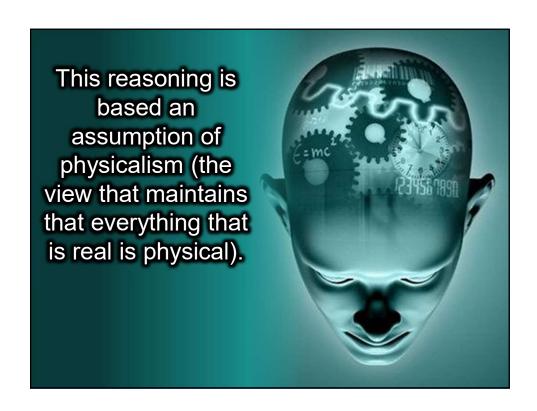


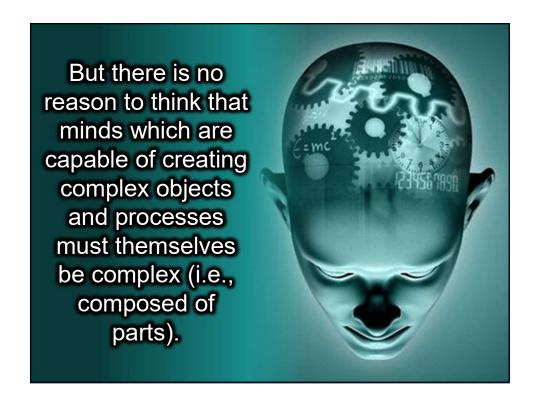


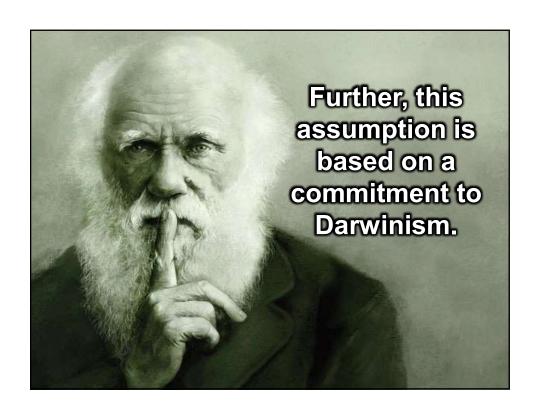


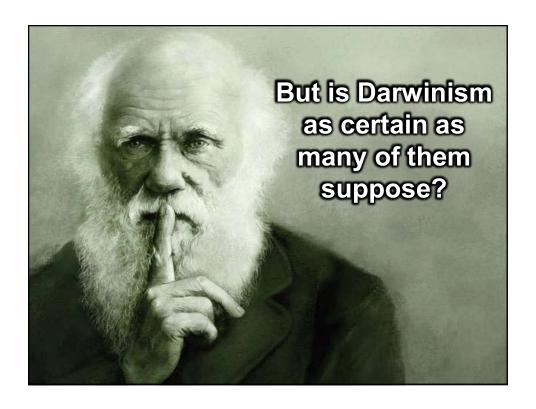












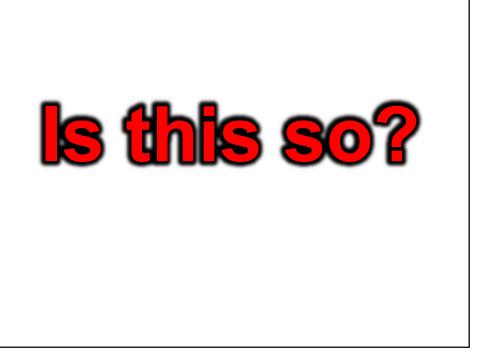
"The basic Darwinian idea . . . is about as secure as any in science ..."

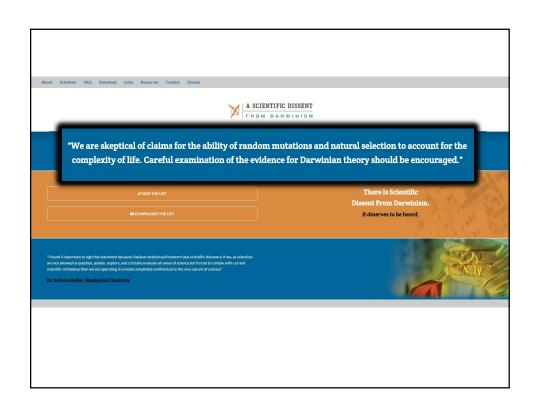
"Darwinian evolution is a well-established theory."

"There is no question . . ."

Challenging evolution is on par with challenging the Moon landing.

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





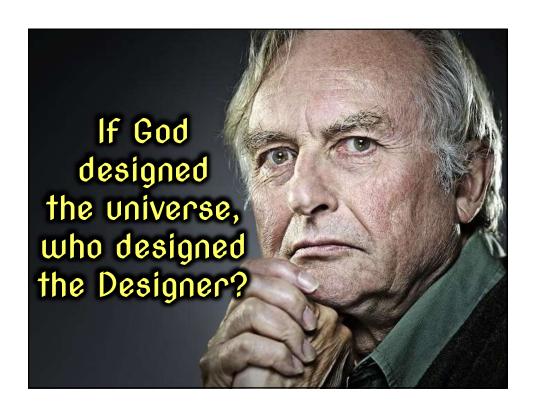
Observations

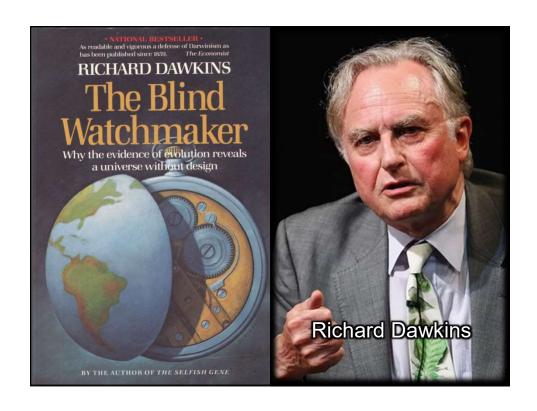
This doesn't mean that Darwinism is false.

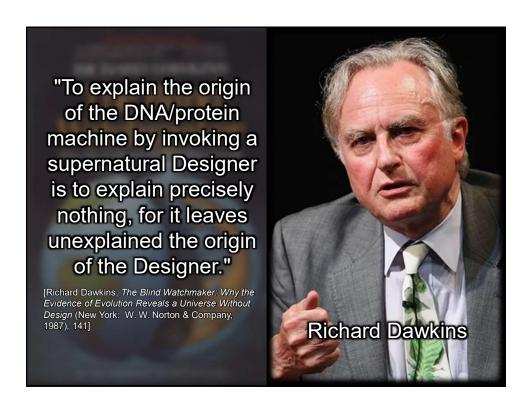
Observations

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

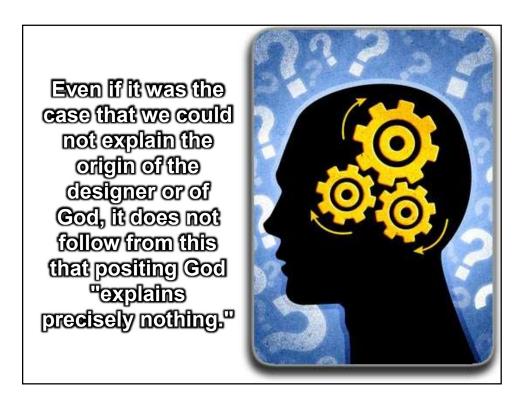


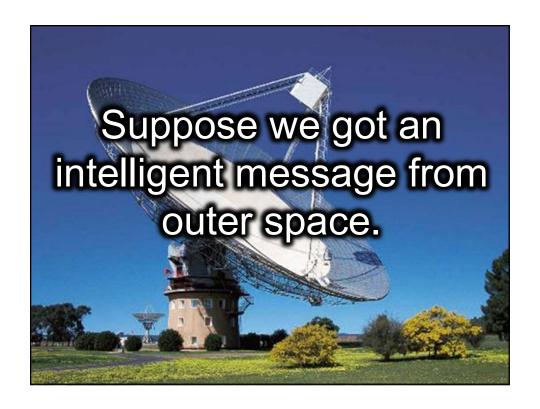






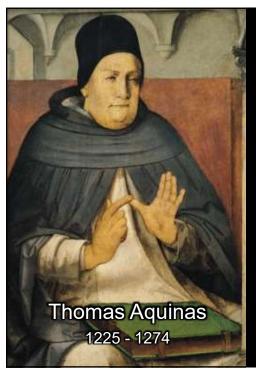






It would be completely reasonable to posit the existence of intelligent life as the cause even if we knew nothing else about this life.

In any event, while there may be some debate as to how much of the nature of God is demonstrated by the scientific arguments,



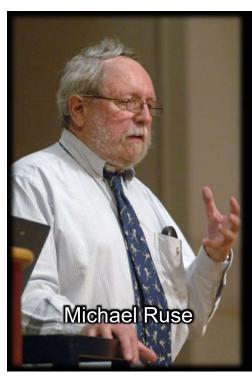
the Aristotelian /
Thomistic
arguments
demonstrate not
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of God, but all of
His classical
attributes as well.



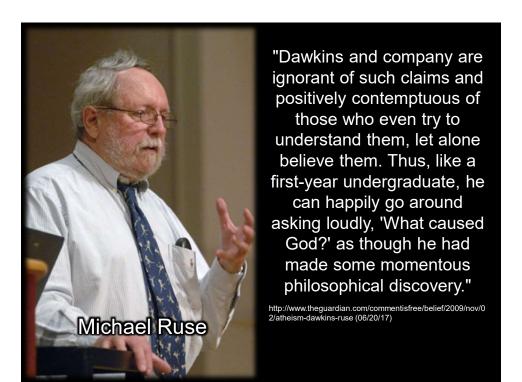
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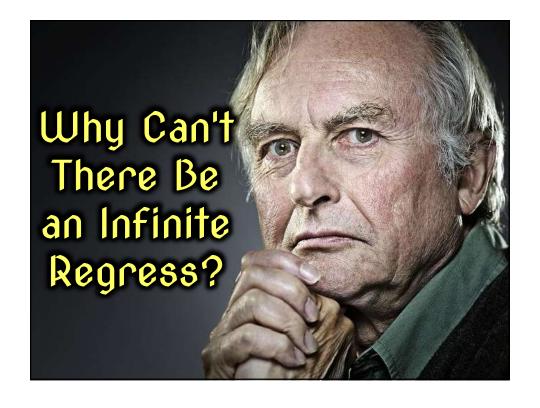


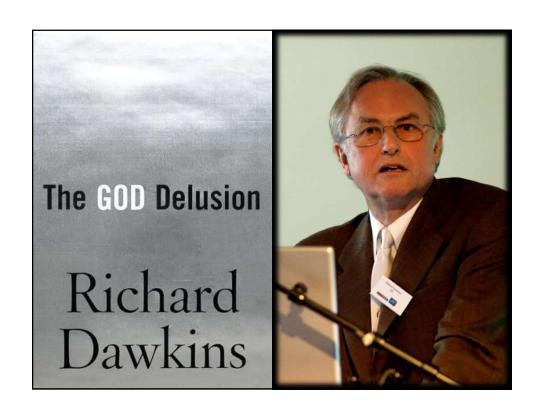
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"I have written that *The God Delusion* made me ashamed to be an atheist and I meant it. Trying to understand how God could need no cause, Christians claim that God exists necessarily. I have taken the effort to try to understand what that means.





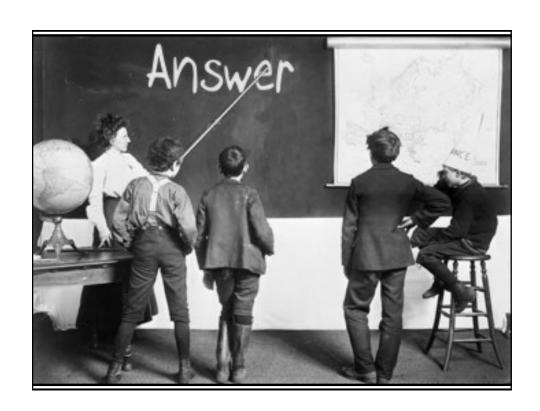


"Thomas Aquinas's Proofs: The Uncaused Cause. Nothing is caused by itself. Every effect has a prior cause, and again we are pushed back into regress. This has to be terminated by a first cause, which we call God."



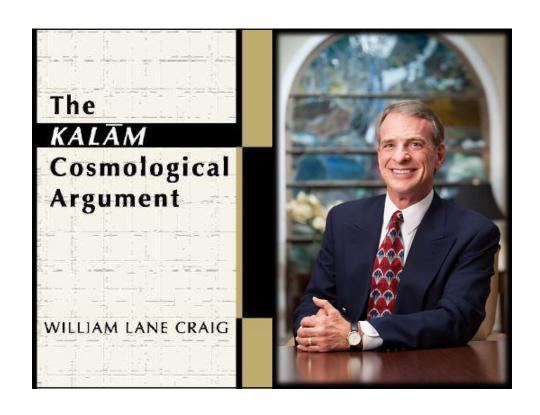
"All three of these arguments [by Aquinas] rely upon the idea of a regress and invoke God to terminate it. They make the entirely unwarranted assumption that God himself is immune to the regress."





While it is true that
Aquinas uses the
expression "this cannot
go on to infinity" in his
famous arguments for
God's existence...

Dawkins is mistaken in assuming that Aquinas is making a Kalam Cosmological Argument.



Premise 1: The Universe began to exist.

Premise 2: Whatever begins to exist has a cause of its existence.

Conclusion: Therefore, the universe has a cause of its existence.

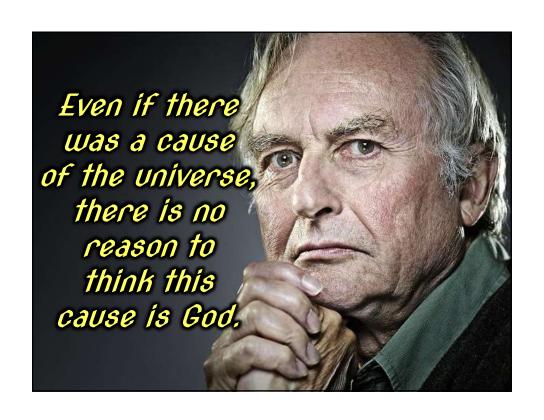
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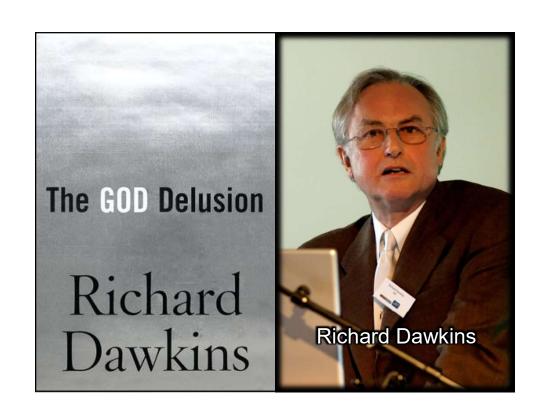
One argument for premise 1 says that a temporal infinite past is impossible because an infinite series is impossible.

But this is not at all what Aquinas is arguing when he is denying the possibility of an infinite regress.

Dawkins is not alone in his mistaken assumption that Aquinas is arguing for the impossibility of an infinite regress in the Kalam sense.



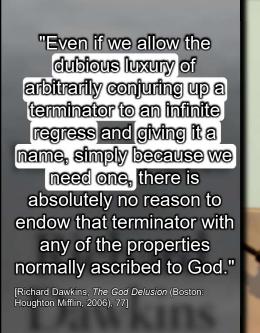




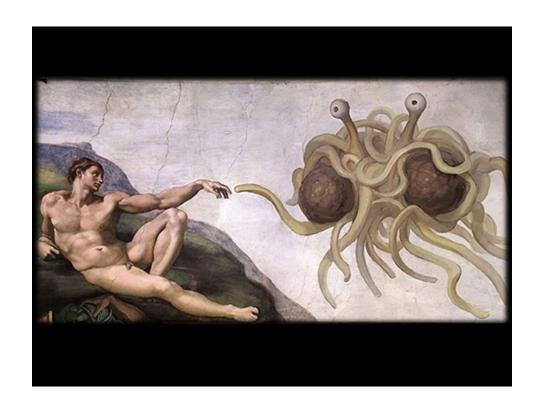
"Even if we allow the dubious luxury of arbitrarily conjuring up a terminator to an infinite regress and giving it a name, simply because we need one, there is absolutely no reason to endow that terminator with any of the properties normally ascribed to God."

[Richard Dawkins, The God Delusion (Boston: Houghton Mifflin, 2006), 77]



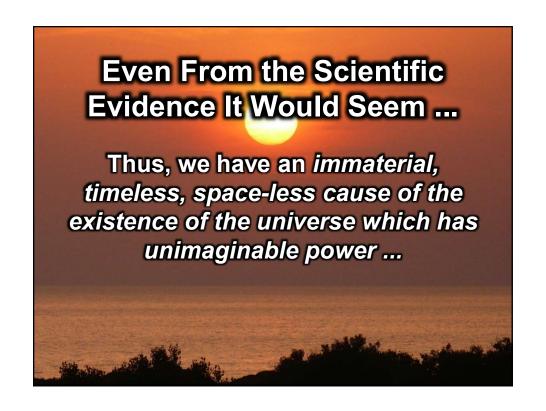


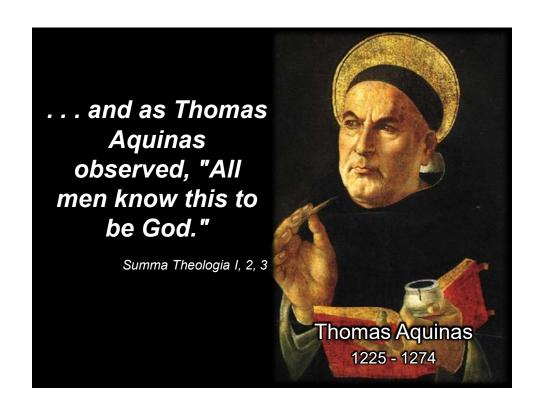


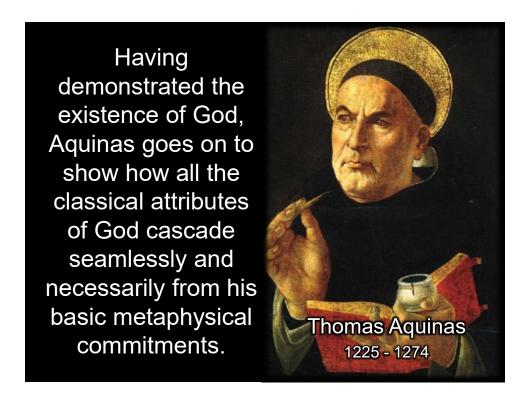




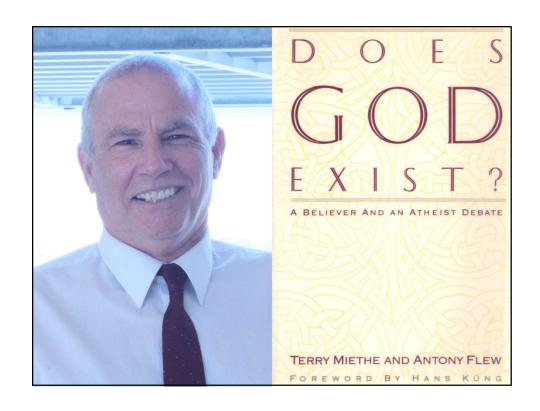
Even From the Scientific Evidence It Would Seem ... Since it is the cause of matter, it cannot itself be material. Since it is the cause of time, it cannot itself be temporal. Since it is the cause of space, it cannot itself be spatial.

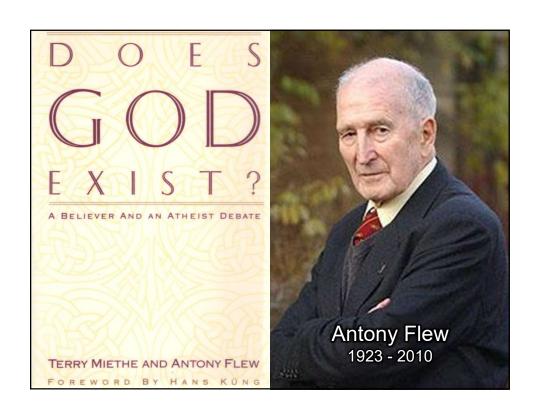


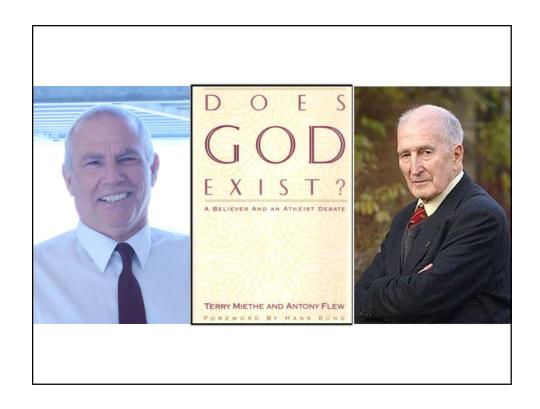


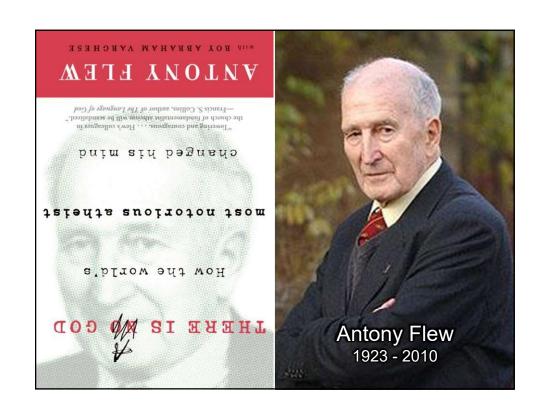


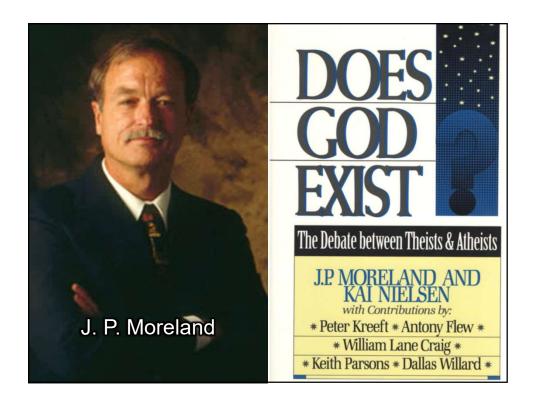


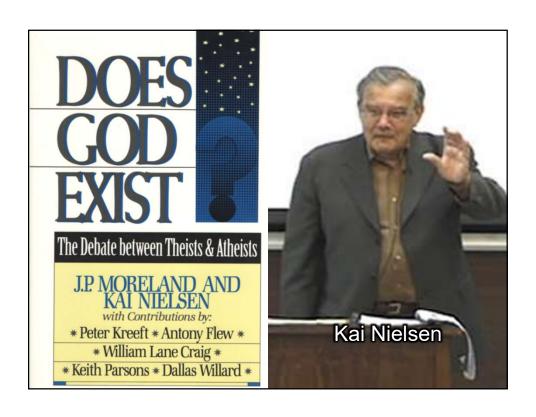


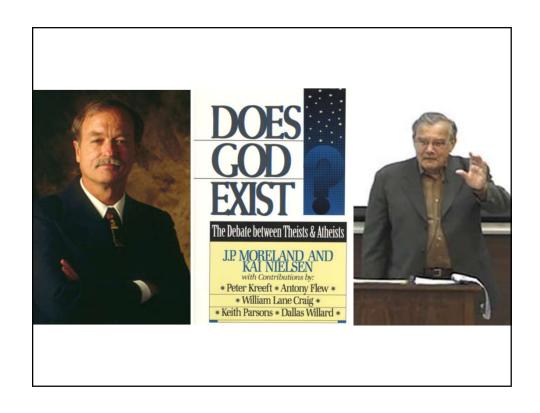




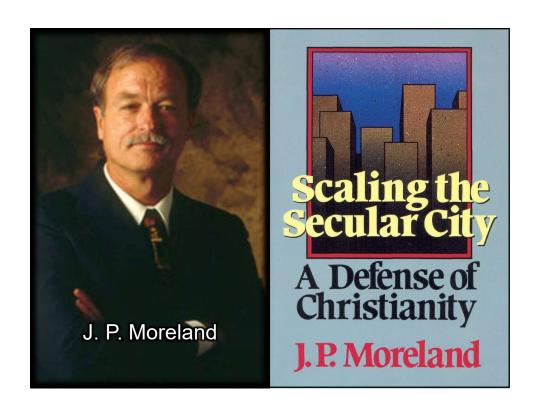


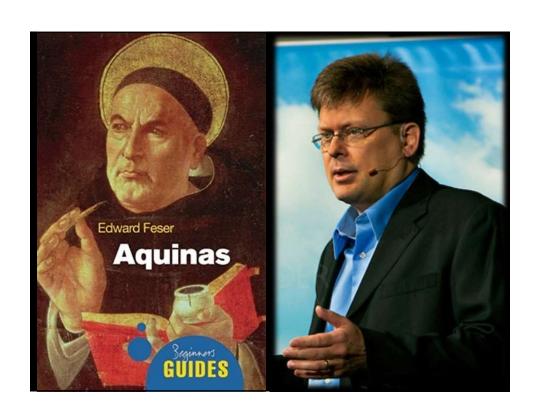


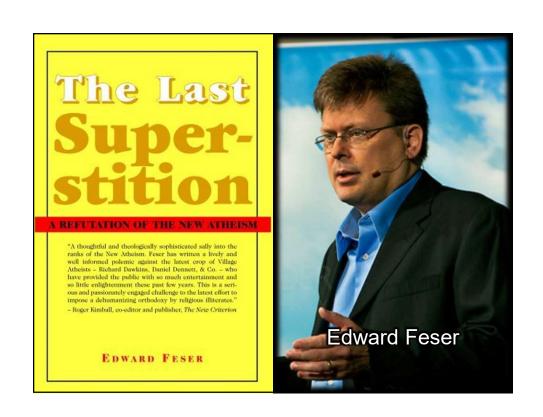


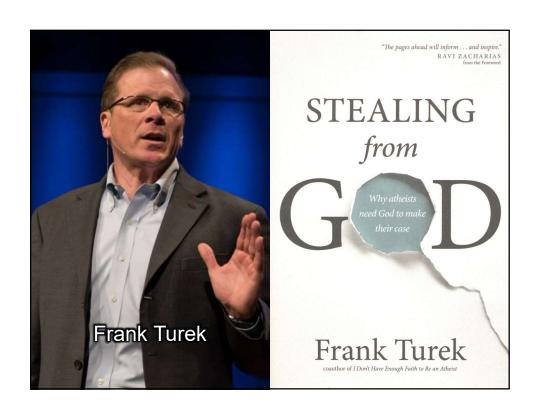


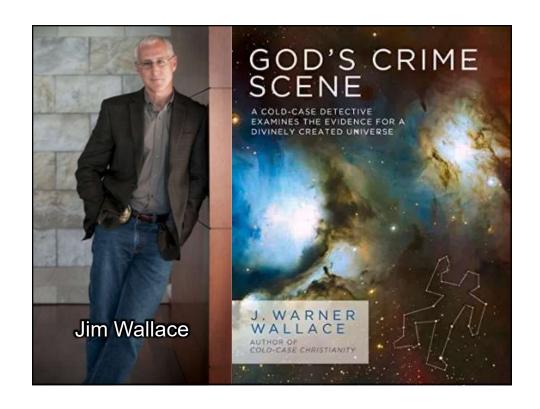




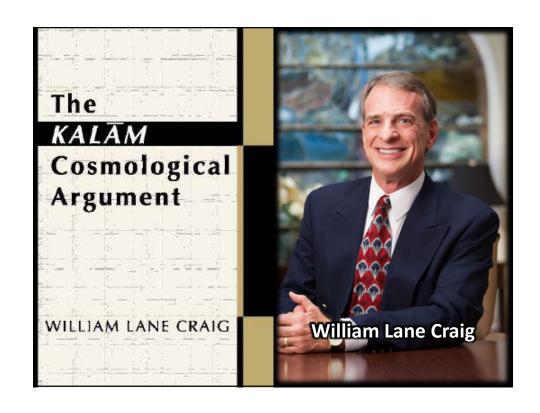


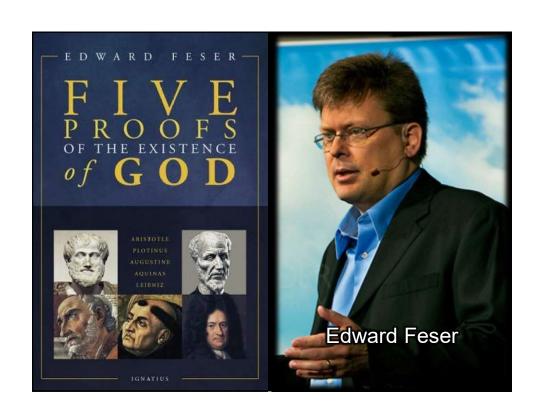


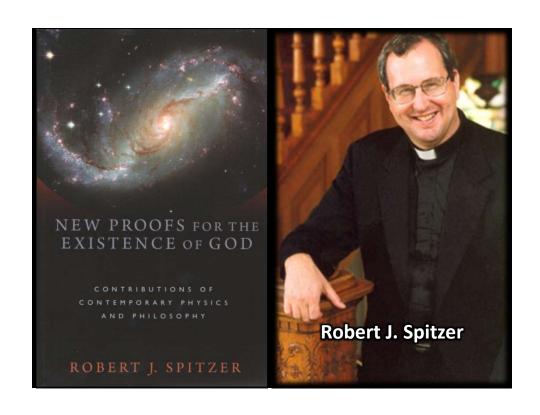


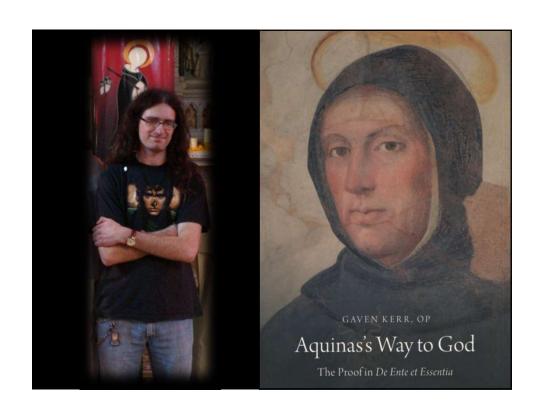


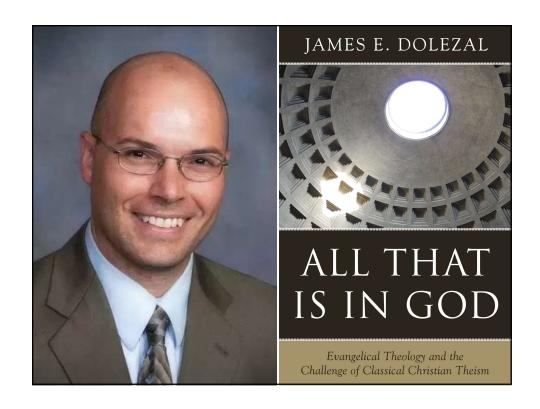


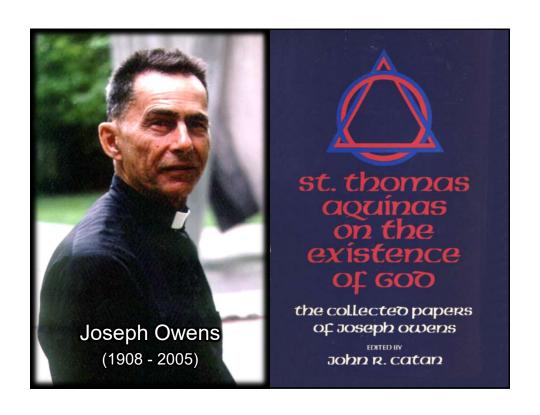


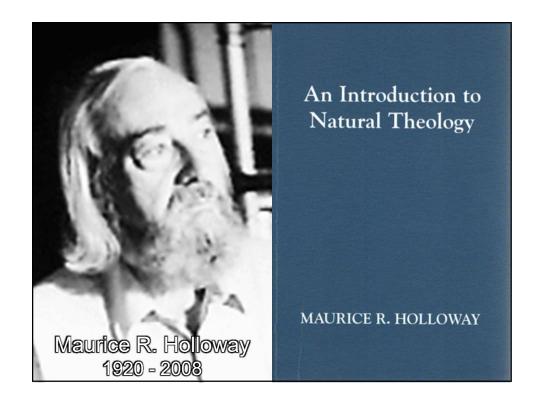


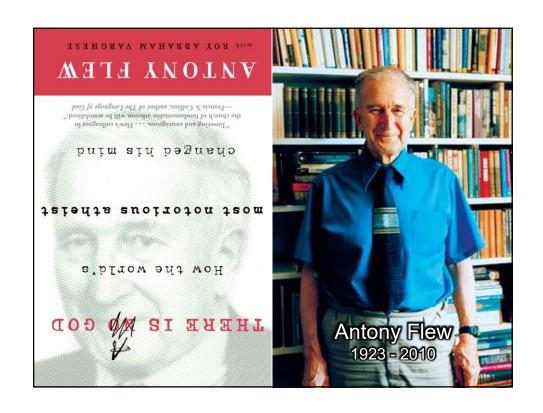


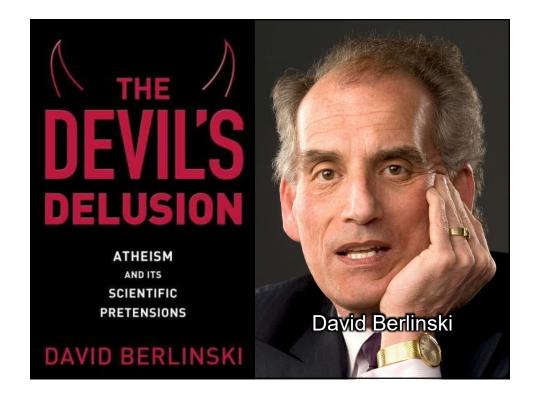


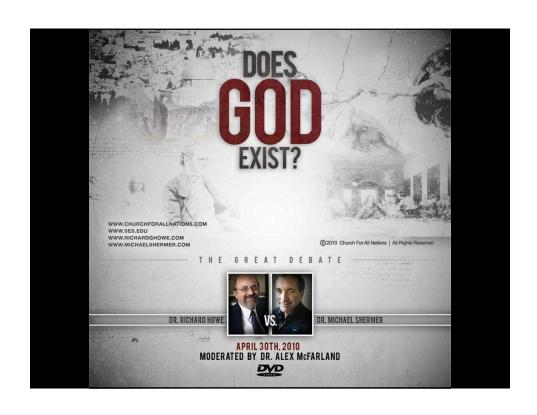












Please Visit these Web Sites:

The Virtual Office of Richard G. Howe, Ph.D. www.richardghowe.com

Southern Evangelical Seminary www.ses.edu