Are We Significant in This Vast Universe? – The Evidence Supports Belief in God

Steve Cable considers the question of why we could possibly be important in such a vast universe. Current research shows that there are reasons why God needed such a vast universe to house life on this planet. Understanding this idea can make it an apologetic for our faith rather than a fact which detracts from our faith. Science is the study of God's creation and the more we delve into it the clearer the hand of God becomes.

Why Is the Universe So Vast? Are We Truly Insignificant?

What do you feel when you look at the night sky? Awe? Insignificance? Adoration? Recently, my wife and I took three Ph.D. students from China for an overnight outing at a lake in West Texas. One of the things that impressed them most was the opportunity to view the night sky on a moonless night. Due to "light pollution," people in most cities can only make out a few hundred stars with the naked eye. These young women had never seen the night sky as King David did when he declared, "The heavens declare the glory of God!" (Psalm 19:1, NASU). They were so taken by the stars and the Milky Way that they spent several hours lying on the dock, looking up at the night sky.



These students were not Christians, and I was glad to have an opportunity to use what we know about the stars to talk to them about the overwhelming evidence for a Creator who is intensely interested in humans. However, another host may have used the same night sky to argue that if there is a God, we must not be

very significant to God. Which view is correct? In this article, we will look into the Bible *and* into current scientific theories to better equip us to answer this important question.

According to the Bible, the transcendent Creator of this universe made humans in His own image as the focal point of His creation. Skeptics of a biblical worldview often point to the vastness of the universe as evidence that humans cannot be the focal point of a theistic creation. The famous astronomer, author, and television personality Carl Sagan put it this way:

> Our posturings, our imagined self-importance, the delusion that we have some privileged position in the Universe, are challenged by this point of pale light. Our planet is a lonely speck in the great enveloping cosmic dark. In our obscurity, in all this vastness, there is no hint that help will come from elsewhere to save us from ourselves.{1}

Famous physicist Stephen Hawking wrote, "Our Solar System is certainly a prerequisite for our existence . . . . but there does not seem to be a need for all these other galaxies."{2}

In other words, why would God create this huge universe, if He was primarily interested in His relationship with one species occupying a tiny planet?

I think this is a reasonable question. After all, based on observations from the Hubble Telescope, the current best estimate for the number of stars in the observable universe is

5 times 10 to the 22nd power; that is a 5 with 22 zeros after it. How many stars is that? Well, if you were to count one star every second, it would take you only fifteen hundred trillion years to count them. These stars are spread over billions of light years. Amazingly, all of these stars account for only about 1% of the total mass of the universe. Why did God create such a vast universe, placing us on a single small planet with no reasonable hope of ever traveling beyond our

solar system? Does the size of our universe run counter to a biblical worldview?

A Biblical Perspective of Humankind and the Vast Heavens

If God is the Creator of the universe, and the Bible is revelation directly from God, then accurate observation of the universe will ultimately prove to be consistent with His revelation. By combining the general revelation of science with the special revelation of the Bible, we should be rewarded with a greater understanding of the nature of our Creator and His intentions for mankind. Let's see if this is true in addressing the vastness of the universe.

First let's consider what God's special revelation for us, the Bible, has to say about the vastness of the universe. The Bible often refers to God's creative work in "stretching out the heavens" and filling it with stars (e.g. Job 9:8, Zechariah 12:1). A review of Bible passages on the stars and the heavens reveals a number of reasons why a vast universe is consistent with humans being the most significant part of creation.

We need to realize that creating a vast universe is not harder for God than creating a smaller universe. God brought the universe into existence out of nothing. He had no limits on the amount of matter and energy created. Consequently, it is meaningless to say that it would be a tremendous waste for God to create so many lifeless galaxies. The concept of waste only applies when there is a limited supply. When there is an unlimited supply, you can use all you desire; there is plenty more where that came from.

Within this vast universe, God placed earth in potentially the only place in the universe capable of supporting advanced life. There are many aspects of the universe that are hidden

from the casual observer, but the vastness of the heavens is not one of them. God created the earth and positioned it in an ideal place so that humans could observe the vastness of the heavens and the enormous number of stars. The Bible points out at least five purposes for humans observing this vast universe:

1. *To reveal His majesty and power.* Job refers to this understanding as he reflected on his sufferings stating,

> Who commands the sun not to shine,
> And sets a seal upon the stars;
> Who alone stretches out the heavens
> And tramples down the waves of the sea;
> Who makes the Bear, Orion and the Pleiades,
> And the chambers of the south;
> Who does great things, unfathomable,
> And wondrous works without number.
> Were He to pass by me, I would not see Him;
> Were He to move past me, I would not perceive Him.
> Were He to snatch away, who could restrain Him?
> Who could say to Him, "What are You doing?" (Job 9:7-12).

Later, God confronts Job with His lack of understanding the full power and majesty of His Creator:

> Where were you when I laid the foundation of the earth?
> Tell Me, if you have understanding, ...
> Can you bind the chains of the Pleiades,
> Or loose the cords of Orion?
> Can you lead forth a constellation in its season,
> And guide the Bear with her satellites?
> Do you know the ordinances of the heavens,
> Or fix their rule over the earth? (Job 38:4, 31-33).

As we see in this passage, God intentionally did creative, wondrous works without number so that we could glimpse His greatness.

2. *To emphasize our insignificance without God.* The vastness of the heavens highlights how insignificant humans are apart from God's concern for us. The primary lesson that Job learned through his experience was that we are in no position to critique God's actions over His creation. God's creation is so vast that any significance we have comes solely from God's choice to be concerned with us. Job stated it this way: "Behold, I am insignificant; what can I reply to You?" (Job 40:4)

King David was the most significant person in Israel during his reign, but when he considered the vastness of God's creation he acknowledged our insignificance:

> When I consider Your heavens, the work of Your fingers,
> The moon and the stars, which You have ordained;
> What is man that You take thought of him,
> And the son of man that You care for him (Psalm 8:3-4)?

3. *As a measure of His loving kindness toward us.* God uses the vastness of the heavens to help us understand the magnitude of His love for us, stating, "For as high as the heavens are above the earth, So great is His loving kindness toward those who fear Him" (Psalm 103:11).

God's love for us is greater than the billions of light years which separate us from the most distant galaxies.

4. *As a picture of His faithfulness and forgiveness.* In a similar way, God uses our inability to completely grasp the breadth and depth of the universe to emphasize spiritual truths. Through Jeremiah, God promised a new covenant where He will remember our sins no more. God used the vastness of the heavens to convey His promise to never cast those in the new covenant away from Him with these words,

> Thus says the LORD, "If the heavens above can be measured
> And the foundations of the earth searched out below,
> Then I will also cast off all the offspring of Israel

> For all that they have done," declares the LORD (Jeremiah 31:37).

Even today astronomers recognize that the universe we can observe is much smaller than the state of the universe as it exists today. Due to the finite speed of light, it is impossible to directly observe the current size of the universe or count the exact number of stars. Just as the heavens can never be measured, God will never cast us off from His presence.

5. *As a reminder that our understanding is limited.* Our Creator understands the universe from one end to the other and from the beginning of time to its end. As humans, we are just beginning to probe its mysteries. So, God reminds us, "For as the heavens are higher than the earth, So are My ways higher than your ways And My thoughts than your thoughts" (Isaiah 55:9).

It is clear that God intended us to observe and study the stars and the heavens. As a part of God's general revelation, the magnitude of the universe speaks to His greatness. Through God's special revelation, we see God using the vastness of His creation to teach us lessons about who we are and how we relate to Him. For a Creator who was willing to sacrifice His only Son on the cross for our redemption, it would be child's play to create a vast universe solely for our instruction. With this understanding, the vastness of the universe becomes a testament to our importance to God rather than evidence of our insignificance.

A Scientific Perspective of Humankind and the Vast Universe

If God is the Creator of the universe and the author of the Bible, accurate observation of the universe will ultimately prove to be consistent with His revelation. By combining the

general revelation of science with the special revelation of the Bible, we should be rewarded with a greater understanding of the nature of our Creator and His intentions for mankind.

In his book *Why the Universe is the Way It Is*{3}, Hugh Ross points out a number of areas where combining the latest observations of astronomy and physics with biblical theology provides us with fuller answers for some of the tough questions of life. One area he focuses on is the question we have been examining: "Does the vastness of this universe mean that we are insignificant and/or accidental?"

If we assume, as most skeptics and seekers would, that the physical laws of this universe have remained constant from the beginning of the universe until now, then the current state of scientific knowledge points to three reasons why the universe must occupy the mass and volume that it does in order for advanced carbon based life to exist on this planet.

1. *The exact mass of the universe was necessary for life supporting elements to exist*. Life requires heavier elements such as oxygen, carbon, and nitrogen. These elements are produced in the nuclear furnaces of stars. If there were less mass in the universe, only lighter elements such as helium would be produced. If there were more mass, only heavier elements, such as iron, would be produced. In fact, the amount of mass and dark energy in the universe must be fine tuned to less than one part in 10 to the 60th power, or one part in one trillion trillion trillion trillion trillion, to have a universe that can create a life supporting solar system and planet.

2. *The exact mass of the universe was required to regulate the expansion of the universe to allow the formation of the sun and the solar system.* Amazingly, it turns out that the same total mass that results in the right mix of life supporting elements also results in the right amount of gravity to dampen the expansion of matter across the surface of the space-time

continuum to allow the formation of stars like the sun which are capable of supporting a planet like earth. If the universe were expanding faster, stars and solar systems would not form. If the universe were expanding slower, giant stars and black holes would dominate the universe. Once again the total matter in the universe is fine tuned to support life. And what an amazing coincidence: the number that creates the right mix of elements also creates the right expansion rate. This dual fine tuning is much less likely than achieving the financial returns guaranteed by Bernie Madoff!

3. *The vast volume of the universe is required to give the earth just the right amount of light and other electromagnetic radiation to support life and not destroy it.* Life not only requires a planet with the right mix of elements orbiting the right kind of sun in just the right solar system; it also requires a "just right" galactic environment. Astronomers has discovered what they call "the galactic habitable zone" for our Milky Way galaxy at a distance of about 26,000 light years from the center of the galaxy. Any planet closer to the center will experience deadly radiation levels. Any planet further away from the center would lack the mix of heavy elements necessary for advanced life. But the vast majority of this habitable zone is inside one of the uninhabitable spiral arms of the galaxy. Since stars revolve around the galactic center at a rate different than the spiral arm structure based on their distance from the center of the galaxy, most solar systems pass through deadly spiral arms over the course of time. Our solar system occupies a very special place as Hugh Ross points out: "The solar system holds a special position in the Milky Way . . . the one distance from the core where stars orbit the galaxy at the same rate as its spiral arm structure does."{4}

Once again we are faced with a divine "coincidence": the same fine-tuned distance required to safely place a habitable planet is also the exact distance required to keep that planet

out of the deadly spiral arms.

Not only must the earth be located far from the center of the Milky Way, the Milky Way must be located far enough away from other galaxies to maintain the stability of its spiral structure. Many aspects of the Milky Way appear to be very rare or unique in the universe.

As you can see, a logical application of current scientific orthodoxy based on the Big Bang and constant natural laws overwhelmingly supports the view that the vastness of the universe does not imply that human life is unremarkable and insignificant. On the contrary, the most reasonable conclusion from the evidence is that life on this planet is the primary purpose behind the vastness of our universe. Both the Bible and the results of scientific observation agree: our vast universe is the work of a Creator who considers life on earth as very significant.

Consequently, we don't have to convince a seeker that the world is much younger than it appears in order to answer the question, "Are we significant to our Creator?" We can say, "Whether you look to the teaching of the Bible or you look at the current prevailing models from the scientific community, the answer is definitely yes!" The important question is, "Is it possible to know more about my Creator and have a relationship with Him?" Beginning with the death and resurrection of Jesus, we can explain how to have an eternal relationship with God and why we believe the Bible is the reliable source of information about our Creator and our universe.

• Check out our article "The Answer is the Resurrection" at Probe.org for more information on using the resurrection to respond to key questions from seekers.
• For more information on topics related to the origins of our universe and other science topics, check out our Faith and Science section.

• For further discussion on the age of the universe see "Christian Views of Science and Earth History" in our Faith and Science section.
• For further discussion of how the age of the universe debate relates to this discussion see Appendix A: Theology vs. Science or Theology plus Science? and Appendix B: Apologetics and the Age of the Universe.

Notes

1. Carl Sagan, *Pale Blue Dot: A Vision of the Human Future in Space* (New York: Random House, 1994).
2. Stephen Hawking, *A Brief History of Time: From the Big Bang to Black Holes* (New York: Bantam, 1988).
3. Hugh Ross, *Why The Universe Is The Way It Is* (Grand Rapids, MI: Baker Books, 2008).
4. Ross, *Why The Universe Is The Way It Is*, 66.

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Are We Alone in the Universe? A Biblical View of Aliens

Dr. Ray Bohlin provides a Christian view on the probability and meaning of life on other planets. From a biblical perspective, what would it mean to find evidence of life beyond this earth?

 *This article is also available in Spanish.*

Life on Mars?

There was great excitement in the media when a group of

scientists from NASA announced they had found evidence of life on Mars. Their evidence, an alleged Martian meteorite, was vaulted to center stage, and everyone from CNN to *Nightline* ran special programs with interviews and video footage of the scientists and their prized specimen. President Clinton was so excited by the announcement that he praised the U.S. space program and took the opportunity to establish a bipartisan space summit headed up by Vice President Al Gore to study the future of U.S. space research. Aren't we already doing that?

Anyway, clearly this announcement took the country by storm. Some of the scientists were embarrassingly gushing about how significant these findings were. The media frenzy was prompted by the early release of an article from the journal *Science*, the premier scientific journal in the U.S. The article was due out the following week, but *Science* decided to release it early because it had leaked out.

Here's what the excitement was about. A group of scientists had studied a meteorite that had been found in the ice of Antarctica. Previously, it had been determined that this meteorite had originated on Mars by studying the gaseous content of glass-like components of the meteor. The gas composition matched very well the atmosphere of Mars. This conclusion seems reasonable.

So, they presumed they had a meteor from Mars. Next they looked for evidence of life on and in the crevices of the meteor. They found two types of molecules that can form as a result of life processes, carbonates and complex molecules called polyaromatic hydrocarbons or PAHs. They also found shapes in the rock that resembled those of known microfossils on Earth. Microfossils are fossils of one-celled organisms which are rather tricky to interpret.

Well, what does this mean? Obviously, the NASA scientists felt the things just mentioned provided ample evidence to conclude that life once existed on Mars. However, the chemical signs

could all be due to processes that have nothing to do with life, and the supposed microfossils are 100 times smaller than any such fossil found on Earth. Other groups that studied this same meteorite concluded that either the temperature of formation of the chemicals was far too high to allow life (over 700 degrees C) or that other chemical signals for life were absent. John Kerridge, a planetary scientist from the University of California at San Diego, said, "The conclusion is at best premature and more probably wrong." But listen to the concluding statement in the paper in *Science:*

> *Although there are alternative explanations for each of these phenomena taken individually, when they are considered collectively, particularly in view of their spatial association, we conclude that they are evidence for primitive life on Mars.{1}*

In plain English, there are reasonable non-life explanations for each of the evidences presented, but we just think that they mean there is life on Mars. The evidence ***is*** very equivocal and was challenged by many other scientists, but the media did not report that as fully. But maybe they are right! In fact, there is one simple explanation that is consistently ignored by media and scientists alike. If there really is, or has been, life on Mars, what could that possibly mean for evolution, and more importantly, does it somehow refute creation? We'll look at that next.

What Would Life on Mars Mean?

Because of the recent announcement of signs of life on Mars, many people were encouraged in their belief that we are not alone in the universe. These signs are far from certain and probably wrong, but if it's true, what would these results mean to evolutionists? Moreover, is there any reason for Christians to fear confirmation of life on Mars?

Let us assume, then, for the moment that the evidence from this Martian meteorite is legitimate evidence for life on Mars—life that at some point in the past actually existed on Mars. What would it mean?

For evolutionists the evidence is perceived as confirmation that life actually arises from non-life by purely chemical processes. In addition, evolutionists draw the conclusion that life must be able to evolve very easily since it did so on two adjacent planets in the same solar system. Therefore, even though origin of life research is actually at a standstill, such a discovery seemingly confirms the notion that *some* chemical evolution scenario *must work*. I will address this assumption later.

On the other hand, some have stated that if there is life on Mars, creationism has been dealt a death blow. They rationalize that since (1) we now know that life can evolve just about anywhere, and (2) the Bible never speaks of life anywhere but on Earth, the Bible is, therefore, unreliable. Besides, they reason, why would God create life on a planet with no humans? However, since the Bible is absolutely silent on the subject of extra-terrestrial life, we can make no predictions about its possibility. God is certainly free to create life on planets other than Earth if He chooses.

Getting back to the evolutionists' glee at the possibility of life evolving on other planets, the real question is whether this is the proper conclusion if life is indeed found on Mars? The simple answer, inexplicably avoided by the media, is NO! The simplest answer to the possible discovery of life on Mars is that the so-called "Martian life" actually came from Earth!

Think about it this way. The meteorite that was found is supposed to have existed on Mars previously. How did it get to Earth? Well, it is hypothesized that a large meteorite crashed into Mars throwing up lots of debris into space, some of which finds its way to Earth and at least a few of which are found

by Earthlings. If you are thinking with me, you now realize that the same scenario could have been played out on Earth.

Evolutionists suggest that the Earth was under heavy meteor bombardment until at least 3.8 billion years ago—about the time they say life appeared on Earth. Christian astronomer Hugh Ross states it this way:

> *Meteorites large enough to make a crater greater than 60 miles across will cause Earth rocks to escape Earth's gravity. Out of 1,000 such rocks ejected, 291 strike Venus, 20 go to Mercury, 17 hit Mars, 14 make it to Jupiter, and 1 goes all the way to Saturn. Traveling the distance with these rocks will be many varieties of Earth life.{2}*

Ross also documents that many forms of microscopic life are quite capable of surviving such a journey. All this is quite well known in the scientific community, but I have not seen it mentioned once in any public discussion. I believe the reason is that the possibility of life having evolved on Mars is too juicy to pass up.

The Improbability of Life Elsewhere in the Universe

I would like to address the amazing optimism of so many that the universe is teeming with life. No doubt this is fueled by the tremendous success of such science fiction works as *Star Wars* and *Star Trek* which eloquently present the reasonableness of a universe pregnant with intelligent life forms.

Inherent within this optimism is the evolutionary assumption that if life evolved here, certainly we should not arrogantly suppose that life could not have evolved elsewhere in the universe. And if life in general exists in the universe, then, of course, there must be intelligent life out there as well.

This is the basic assumption of the SETI program, the Search

for Extra-Terrestrial Intelligence. This is the program, now privately funded instead of federally funded, that searches space for radio waves emanating from another planet that would indicate the presence of intelligent life. But is such a hope realistic? Is there a justifiable reason for suspecting that planets suitable to life exist elsewhere in the universe?

Over the last two decades scientists have begun tabulating many characteristics of our universe, galaxy, solar system, and planet that appear to have been finely-tuned for life to exist. Christian astronomer and apologist, Dr. Hugh Ross documents all these characteristics in his book *Creator and the Cosmos,*{3} and is constantly updating them. In the book's third edition (2001), Ross documents 35 characteristics of the universe and 66 characteristics of our galaxy, solar system, and planet that are finely-tuned for life to exist.

Some examples include the size, temperature, and brightness of our sun, the size, chemical composition, and stable orbit of Earth. The fact that we have one moon and not none or two or three. The distance of the Earth from the sun, the tilt of the earth's axis, the speed of the earth's rotation, the time it takes Earth to orbit the sun. If any of these factors were different by even a few percent, the ability of Earth to sustain life would be severely compromised. Recently it has been noted that even the presence of Jupiter and Saturn serve to stabilize the orbit of Earth. Without these two large planets present exactly where they are, the Earth would be knocked out of its present near circular orbit into an elliptical one, causing higher temperature differences between seasons and subjecting Earth to greater meteor interference. Neither condition is hospitable to the continuing presence of life.

Ross has further calculated the probabilities of all these factors coming together by natural processes alone to be 1×10^{-166}; that's a decimal point followed by 165 zeroes and then a

one. A very liberal estimate of how many planets there may be, though we have only documented less than 100, is 10^{22} or 10 billion trillion planets, one for every star in the universe. Combining these two probabilities tells us that there are 10^{-144} planets in the entire universe that could support life. Obviously this is far less than one; therefore, by natural processes alone, we shouldn't even be here—let alone some kind of alien life form.

So unless God created life elsewhere, we are alone, and for the materialistic evolutionist, this is a frightening thought.

Problems with Chemical Evolution on Earth

The statistics given above mean that we are really alone in the universe and that there is no hope of finding intelligent civilizations as in the television program *Star Trek.* While it means there is no one out there to threaten our survival, there is also no one out there to save us from our own mistakes.

This observation highlights why I believe the scientific community and the media became so excited about the possibilities of life on Mars. Efforts to determine how life could have evolved from non-living matter have been so fraught with problems that it makes the possibility of life elsewhere extremely remote. But if it could be proved that life evolved elsewhere, then it would demonstrate that life springs up rather easily, and we just haven't found the right trick here on Earth to prove it. But this just leapfrogs the problem.

But is the evolution of life from non-living chemicals really that impossible? The difficulties fall into three categories, the Chemical Problem, the Thermodynamic Problem, and the Informational Problem. These issues are presented comprehensively in a book by Thaxton, Bradley, and Olsen titled *The Mystery of Life's Origin*{4} and in a chapter in the

edited volume by J. P. Moreland, *The Creation Hypothesis*.{5}

Chemical Problems are illustrated by the difficulty in synthesizing even the simplest building block molecules necessary for life from inorganic precursors. Amino acids, sugars, and the bases for the important nucleotide molecules that make up DNA and RNA were all thought to be easily synthesized in an early Earth atmosphere of ammonia, methane, water vapor, and hydrogen. But further experiments showed this scenario to be unrealistic. Ammonia and methane would have been short-lived in this atmosphere; the multiple energy sources available would have destroyed the necessary molecules and water would have broken apart into hydrogen and oxygen. The oxygen was scrupulously avoided in all prebiotic scenarios because it would have poisoned all the necessary reactions.

Thermodynamic Problems arise from the difficulty in assembling all these complex molecules that would have been floating around in some prebiotic soup into a highly organized and complex cell. To accomplish the task of achieving specified complexity in life's molecules such as DNA and proteins, the availability of raw energy for millions of years is not enough. All systems where specified complexity is produced from simple components requires an energy conversion mechanism to channel the energy in the right direction to accomplish the necessary work. Without photosynthesis, there is no such mechanism in the prebiotic Earth.

The Informational Problem shows that there is no way to account for the origin of the genetic code, which is a language, without intelligent input. Informational codes require intelligent preprogramming. No evolutionary mechanism can accomplish this. Life requires intelligence.

So you can see why evolutionists would get excited about the possibility of finding evolved life elsewhere. It's because life is seemingly impossible to evolve here. So, if it did happen elsewhere, maybe our experiments are just missing

something.

Independence Day, The Movie

In the movie *Independence Day,* an alien battle force swoops down on Earth with the intention of destroying the human race, sucking the planet dry of all available resources and then moving on to some other unlucky civilization in the galaxy. But, those indomitable humans aided by good old American ingenuity outsmart those dull-witted aliens and Earth is saved. The story has been told many times, but perhaps never as well or never with such great special effects. The movie was a huge success.

But why are we continually fascinated by the possibility of alien cultures? The movie gave the clear impression that there must be great numbers of intelligent civilizations out there in the universe. This notion has become widely accepted in our culture.

Few recognize that the supposed existence of alien civilizations is based on evolutionary assumptions. The science fiction of *Star Trek* and the *Star Wars* begins with evolution. As I've stated earlier, evolutionists simply rationalize that since life evolved here with no outside interference, the universe must be pregnant with life. Astronomer Carl Sagan put it this way after he had reviewed the so-called success of early Earth chemical evolution experiments:

> *Nothing in such experiments is unique to the earth. The initial gases, and the energy sources, are common throughout the Cosmos. Chemical reactions like those in our laboratory vessels may be responsible for the organic matter in interstellar space and the amino acids found in meteorites. Some similar chemistry must have occurred on a billion other worlds in the Milky Way Galaxy. The molecules of life fill the Cosmos.{6}*

Sagan strongly suggests that the probabilities and chemistry of the universe dictate that life is ubiquitous in the galaxy. But as I stated earlier, the odds overwhelmingly dictate that our planet is the only one suitable for life in the universe. And the chemistry on Earth also indicates that life is extremely hard to come by. The probability of life simply based on chance occurrences is admitted by many evolutionists to be remote indeed. Many are now suggesting that life is inevitable because there are yet undiscovered laws of nature that automatically lead to complex life forms. In other words, the deck of cards is fixed. Listen to Nobel Laureate and biochemist, Christian de Duve:

> *We are being dealt thirteen spades not once but thousands of times in succession! This is utterly impossible, unless the deck is doctored. What this doctoring implies with respect to the assembly of the first cell is that most of the steps involved must have had a very high likelihood of taking place under the prevailing conditions. Make them even moderately improbable and the process must abort, however many times it is initiated, because of the very number of successive steps involved. In other words, contrary to Monod's affirmation, the universe was—and presumably still is—pregnant with life.{7}*

The only problem with de Duve's suggestion is that we know of no natural processes that will lead automatically to the complexity of life. Everything we know of life leads to the opposite conclusion. Life is not a product of chance or necessity. Life is a product of intelligence.

Without Divine interference we are alone in the universe and without Christ we are—and should be—terrified. The gospel is as relevant as ever.

Notes

1. *Science,* 16 August 1996, 273:924-30.

2. *Creator and the Cosmos,* NavPress, 2001, p. 210.
3. Ibid., pp. 145-199.
4. Lewis and Stanley, 1984.
5. InterVarsity Press, 1994, pp. 173-210.
6. *Cosmos,* Random House, 1980, p. 40.
7. *Vital Dust*, Basic Books, 1995, p. 9.

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A Philosophical Critique of Theistic Evolution

Dr. Ray Bohlin provides an overview of some philosophical problems with theistic evolution, particularly methodological naturalism.

Methodological Naturalism as a Ground Rule of Science

In this article I review the philosophical critique of theistic evolution from the book *Theistic Evolution: A Scientific, Philosophical, and Theological Critique.*{1} I'm starting with the chapter in this section by Steve Meyer and Paul Nelson titled, "Should Theistic Evolution Depend on Methodological Naturalism?" Now I admit that's quite a mouthful. What is methodological naturalism?

Well, if you simply break the word down, you can see that it is first about a method, therefore "methodological." The second word is "naturalism." The philosophy of naturalism maintains that only nature exists. There is no supernatural, no spirit or spirits, only matter and energy.

Therefore, methodological naturalism is a method that only considers matter and energy. This refers for many to science. So methodological naturalism is a method of science that only considers natural explanations. As Meyer and Nelson put it, "Methodological naturalism asserts that, to qualify as science, a theory must explain by strictly physical or material—that is, non-intelligent or non-purposive—causes."

Theistic evolutionists collectively assert that this is how science must be done. No purpose or intelligence allowed. Strangely though, Meyer and Nelson quote atheist Sean Carroll saying, "Science should be about determining truth, whatever truth that may be—natural, supernatural, or otherwise." In addition, they quote theistic evolutionist Darrell Falk admitting that natural selection and mutation do not explain the origin of animal form. Yet he also affirms there is a natural explanation waiting out there. Why?

Meyer and Nelson explain, "Because of his commitment to methodological naturalism, Darrell Falk will not consider any theory (such as intelligent design) that invokes 'creative intelligence.'" Instead, he waits for an adequate and fully naturalistic theory of evolution. But is this reasonable?

This is my third article critiquing Theistic Evolution. You can find the first two here and here. I simply ask that our brothers and sisters who accept Theistic Evolution, look again with unbiased eyes.

Why Methodological Naturalism?

Above, I said that science should be about determining truth, wherever the evidence leads. Methodological naturalism limits that search for truth in science to only natural explanations. So why this restriction?

Some theistic evolutionists like Nancy Murphy are quoted as saying that, "For better or worse, we have inherited a view of

science as methodologically atheistic." This limit by history over the last 150 years hardly seems adequate. Others, however, insist that methodological naturalism is supported by independent and objective criteria. These are often referred to as Demarcation criteria, such as:

1. Must be based on observable data and/or
2. Must be testable or falsifiable and/or
3. Must offer explanations based on natural law.

These criteria will be able to distinguish genuine science from pseudoscience, metaphysics, or religion.

I'm going to need to examine these criteria to see if they provide what is needed—basically a principled philosophical or methodological reason for supporting methodological naturalism. Can these criteria enable scientists or philosophers to do science in a normative way? Do the criteria justifiably exclude, *a priori*, some theories as unscientific or pseudoscientific, despite what the evidence may show? If so, then it may be perfectly justifiable to exclude from scientific consideration theories of the origin and development of life that invoke creative intelligence, and it may also be justifiable to require that theories refer only to materialistic causes or natural processes just as many theistic evolutionists assume.

BUT—and this is a big BUT—what if these demarcation criteria are neither independent nor objective? Is there already an inherent bias in these criteria and are they applicable in all situations? The answer is a resounding NO!

Demarcation Criteria Work, Except When They Don't

Earlier, I discussed if methodological naturalism is necessary for science, and most evolutionists and theistic evolutionists

think that it is. There are what are called demarcation criteria that are supposed to distinguish science from pseudoscience and religious theories.

There was a significant and famous federal court case challenging a new law passed in Arkansas back in 1980, that required creationism to be taught alongside evolution in public schools. Federal Judge William Overton struck down the Arkansas law and used many of these demarcation criteria as his reasoning. His reasoning was that creationism was not science based on these criteria.

First, he said, virtually verbatim from the brief submitted from the ACLU, creationism was not guided by natural law. Second, it was not explained by reference to natural law. Third, creationism was not testable against the empirical world. And fourth, Creationism was not falsifiable. On the surface judge Overton's decision was reasonable.

Therefore, despite whatever scientific evidence creationists were able to offer for their claims, it simply wasn't science. No matter what the evidence!

But within months of the ruling being issued, it was blistered by philosophers of science. They explained that many theories throughout science in the past and present would not qualify as science according to Overton's decision.

But as Meyer and Nelson point out, Newton and Galileo posed no natural law to govern gravitational phenomena. Yet, Newton's universal law of gravitation described and predicted gravity precisely, but according to the criteria, it's not science. Even Darwin's theory of natural selection knew nothing of the genetics it would eventually refer to. Were both Newton and Darwin unscientific? No one would claim that today. So, judge Overton greatly
overreached.

Demarcation Criteria Could Exclude Both ID and Evolution

In the previous section I began discussing what are called demarcation criteria that are supposed to distinguish between science and non-science. I showed that Newton's gravitational ideas were not based on scientific law. He had no idea what caused gravity. Another criterion is that science must be testable. But as philosopher of science Larry Laudan showed after the trial, creationists routinely offered geological tests for their catastrophic flood geology.

Another major criterion was that a scientific hypothesis must be observable. When discussing intelligent design, of course, the designer is not observable. So, ID is not science. Meyer and Nelson point out however, that this is applying the criterion far too rigidly. After all, we still cannot see gravitational waves, we have never observed an electron, we have never observed a mammalian carnivore evolving into a wolf or a lion, or anything even remotely this close in relationship.

But evolutionists can suggest evolutionary events that could give rise to the wolf and the lion, and we can very precisely predict and describe gravitational fields even though we can't observe gravity itself, only the results.

Appropriately, while we may not observe the designing mind behind the information rich content of living things, we are very acquainted with the results of intelligence. Our only model today for the origin of complex specified information (or language) is the mind. Our minds interpret and produce language every hour of our waking day; even in our sleep, we dream—again information.

So, if we use the criterion of observability too rigidly, then both evolution and ID are not science, but if we apply the criterion more realistically, then both materialistic and non-

materialistic theories can qualify as science.

Why Methodological Naturalism Sinks Theistic Evolution

I will now close my discussion of the philosophical objections to theistic evolution by discussing an intriguingly-titled chapter, How to Lose a Battleship: Why Methodological Naturalism Sinks Theistic Evolution.

Remember that Methodological Naturalism is defined by asserting that science, properly understood, can only suggest natural causes. Author Stephen Dilley reminds us of what has been known for decades; that Darwin's *Origin of Species* was written as a scientific answer to its main competitor, special creation. However, in the fourth edition, Darwin also claimed that special creation is not science.

But if you use scientific evidence to discredit a theory as false, it must be science, otherwise, scientific evidence is useless. But when Darwin also claimed that special creation was not science, then his scientific arguments against special creation should have been taken out of what he called "the long argument."

But even modern-day theistic evolutionists do much the same thing. On the one hand, they use methodological naturalism to contend that ID is not science, but then they offer scientific evidence that ID is false using scientific arguments. If ID is not science, then scientific evidence is useless; if it is science, then use scientific evidence to demonstrate that it is incorrect science.

Francis Collins is perhaps the most recognizable proponent of theistic evolution. In his book, *The Language of God*, he uses theological language to show evolution as being true and ID as false. Basically, he reasons that the design of the mammalian

eye is less than ideal. That is what you would expect, he says, from evolution, but not design. Evolution will cobble something together that works, whereas you would expect the Designer to design it perfectly. This argument has been around for some time and simply is not true, but you can see that Collins uses theological language to exclude design.

If evolution is science, then why resort to what we think God would do, to argue in favor of evolution? Either way, Dilley shows, theistic evolutionists would be wise to discard methodological naturalism. I agree.

Notes

1. *Theistic Evolution: A Scientific, Philosophical, and Theological Critique* by J. P. Moreland, Stephen C. Meyer et al. (Wheaton, IL: Crossway, 2017).

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Did Adam Really Exist?

Were Adam and Eve really the first pair of humans? Rick Wade responds to theistic evolution and OT scholar Peter Enns' belief the human race did not begin with Adam.

Paul and Adam

In 2011, *Christianity Today* reported on the growing acceptance of theistic evolution in the evangelical community and one possible implication of it. If humans did evolve along with other species, was there a real historical first couple? Did Adam and Eve really exist?

In this article I'll address a couple of theological

problems this claim raises and a question of interpretation. I'll look at the views of evangelical Old Testament scholar Peter Enns who denies a historical Adam; not, however, to single him out as a target, but rather because he raises the important issues in his writings.

Enns denies a historical Adam for two main reasons. One is that, as far as he is concerned, the matter of evolution is settled. There was no first human couple.{1} The other is his belief that Genesis 1 describes the origins of the world in the mythological framework of the ancient Near East, and thus isn't historical, and that Genesis 2 describes the origins of *Israel*, not *human* origins.{2} So Genesis doesn't intend to teach a historical Adam and Eve, and evolutionary science has proved that they couldn't have existed.

Let's begin with the question of how sin entered the world if there were no Adam.

In Romans chapter 5, the apostle Paul says sin, condemnation, and death came through the act of a man, Adam. This is contrasted with the act of another man, Jesus, which brought grace and righteousness.

However, if there were no historical Adam, where did sin come from? Enns says the Bible doesn't tell us.{3} The Old Testament gives no indication, he says, "that Adam's disobedience is the cause of universal sin, death, and condemnation, as Paul seems to argue."{4} Paul was a man of his time who drew from a common understanding of human beginnings to explain the universality of sin. Enns acknowledges universal sin and the need for a Savior.{5} He just doesn't know how this situation came about. The fact that Adam didn't exist, Enns believes, does nothing to take away from Paul's main point, namely, that salvation comes only through Christ for all people, both Jews and Gentiles. Is this true?

Paul and Adam: A Response

There are a few problems with this interpretation. First, there is a logical problem. Theologian Richard Gaffin points out that, in Rom. 5:12, 17, and 18, a connection is made between the "one man" through whom sin came and the "all" to whom it was spread. If sin really didn't come in through the "one"—Adam—and spread to the "all"—you and me—how do we take seriously Paul's further declaration that "one man's act of righteousness leads to justification and life for all"?

Second, there is a piling on of error in Paul's claim. One of Enns' foundational beliefs is that God used human understanding to convey His truths in Scripture. God spoke through the myths of the ancient world when He inspired the writing of Genesis.{6} If Enns is correct, one would expect that God was using the Genesis myth to reveal something true in Paul's claim about Adam. In other words, the Old Testament story would be opened up so a truth would be revealed. However, Paul's first point, that sin came through Adam to the race (Rom. 5:12), is in fact false, according to Enns. The following truth, about righteousness coming through Christ, is beside the point here. Paul's assertion about Adam isn't simply a *historical* one; it is a *doctrinal* one, too. The traditional teaching of the church regarding the source of sin, death, and condemnation is therefore false. Paul delivered a false teaching based upon a non-historical myth. He should have left Adam out of his discussion. It does nothing to buttress his claim about Christ.

Enns says that this matter of the origin of sin is "a vital issue to work through, . . . one of the more pressing and inevitable philosophical and theological issues before us."{7} One has to wonder, though: if Paul didn't have the answer, and he was taught by Christ directly, and if the rest of Scripture is silent about such an important matter, can we really think we can ferret out the solution ourselves?

Paul's Use of the Old Testament

The use of the Old Testament in the New Testament is of great significance in this matter. How does Paul get the point he made out of Genesis if it isn't true?

Peter Enns believes the problem is related to the way Paul interpreted and used the Old Testament. Paul lived in an era which is now called Second Temple Judaism. Writers in this era, Enns says, "were not motivated to reproduce the intention of the original human author" in the text under consideration.{8} Thus, we see Old Testament texts used in seemingly strange ways in the New Testament, strange if what we expect is a direct reproduction or a further development or deeper explanation of the Old Testament writer's original intent. Texts could be taken completely out of context or words could be changed to make the text say something the New Testament writer wanted to say. In this way, Enns believes, Paul used the Old Testament creatively to explain the universality of sin and of the cross work of Christ.

Some scholars speak of "christocentric" interpretation of the Old Testament. Enns prefers the term "christotelic" which refers to the idea that Christ is the *completion* of the Old Testament or the *end* toward which the Old Testament story was headed. Regarding Adam, Enns writes, "Paul's Adam is a vehicle by which he articulates the gospel message, but his Adam is still the product of a creative handling of the story."{9} Paul presents Adam as a historical person, and then makes the further creative claim that Adam's sin is the reason we all sin. Neither of these are true, but this does no harm to the most important part of the text where Paul claims that salvation for all people came through Christ.

None of this should be problematic for us, in Enns' opinion, for he believes this view of the Bible is similar to our view of the Incarnation of Christ. In Jesus there are both humanity and divinity. Likewise, the Bible is a coming together of the

divine and the human. God used the methods of Paul's day to convey the gospel message.

Paul's Use of Old Testament: A Response

How can we respond to this view of Paul's use of the Adam story?

Enns believes "that the NT authors [subsumed] the OT under the authority of the crucified and risen Christ."{10} However, Jesus never referred to the Old Testament in a way that showed the Old Testament incorrect as it stood. Even His "but I say to you" in the Sermon on the Mount appears to be more a matter of teaching the depths of the laws than a correction of the Old Testament text. He upheld the authority of the Old Testament such as when he said, "Do not think that I have come to abolish the Law or the Prophets; I have not come to abolish them but to fulfill them" (Mt. 5:17)."{11}

Bruce Waltke is an evangelical Old Testament scholar who accepts theistic evolution but who disagrees with Enns on this matter. He wonders why Jesus rebuked the disciples on the road to Emmaus (Luke 24:25-27) for not understanding the plain language of Scripture if the plain historical sense isn't sufficient.{12} He argues that Enns' method of interpretation can't be supported by Scripture.

Paul said the gospel he preached was "in accordance with the Scriptures" (1 Cor. 15:3-4) by which he meant the Old Testament.{13} Elsewhere he said that the Old Testament Scriptures are "profitable for teaching" in 2 Tim. 3:16-17.{14}

New Testament scholar Richard Bauckham disagrees with the belief that Paul followed the interpretive methods of his day. The apostles weren't guilty of reading into the Old Testament ideas held independently of it. He says, "They brought the Old Testament text into relationship with the history of Jesus in

a process of mutual interpretation from which some of their profoundest theological insights sprang."{15}

In fact, it was the apostles' high esteem for the Old Testament that forced them to come to grips with the Trinitarian nature of God given the claims of Jesus.{16}

This doesn't mean, however, that it's always easy to understand how the apostles used the Old Testament. However, what the apostles taught was understood to be in continuity with what they had received before, not as a correction of it.

The Matter of Inspiration

It is inevitable that a discussion of the denial of the historical Adam will turn to the doctrine of the inspiration of Scripture. Old Testament scholar Peter Enns believes that Paul's incorrect use of Adam "has no bearing whatsoever on the truth of the gospel."{17} That's true, but it has a lot to do with how we understand inspiration and its bearing on Paul's writings.

The apostle Paul said that "all Scripture is inspired" or "breathed out" by God (2 Tim. 3:16). Peter explains further that "no prophecy of Scripture comes from someone's own interpretation. . . . but men spoke from God as they were carried along by the Holy Spirit" (2 Pet. 1:20-21).

Paul, who claimed in 1 Thess. 2 that his teachings were the word of God (v. 13), intended to explain how sin and condemnation came into the world in Romans 5. Elsewhere, Peter spoke of Paul's writings as Scripture (2 Pet. 3:15-16). If Paul's explanation of this "vital issue," in Enns' words, was wrong, was it, then, of Paul's own interpretation? Either it came from the Holy Spirit and was inspired Scripture, or it was merely Paul's interpretation and was not. Which is it?

Old Testament scholar Bruce Waltke writes this: "A theory that

entails notions that holy Scripture contains flat out contradictions, ludicrous harmonization, earlier revelations that are misleading and/or less than truthful, and doctrines that are represented as based on historical fact, but in fact are based on fabricated history, in my judgment, is inconsistent with the doctrine that God inspired every word of holy Scripture."{18}

It might be objected here that I am confusing inspiration with interpretation. These are different things. However, if it is understood that all of Scripture comes from God who cannot lie, then we have to let that set limits on how we interpret Scripture. Interpretations that include false doctrines cannot be correct.

It seems to me that Enns has put himself into a difficult position. His conviction of the truth of human evolution isn't his only reason for denying the historical Adam, but it puts the traditional understanding of Adam and his place in Paul's theology out of bounds for him. It would be better to hold to what the church has taught for centuries rather than to the tentative conclusions of modern scientists.

Notes

1. Peter Enns, *The Evolution of Adam: What the Bible Does and Doesn't Say about Human Origins* (Grand Rapids: Brazos Press, 2012), ix, xiv, 122-23.
2. Ibid., 52.
3. Ibid., 124-26.
4. Peter Enns, *Inspiration and Incarnation: Evangelicals and the Problem of the Old Testament* (Grand Rapid: Baker, 2005), 82.
5. Enns, *Evolution of Adam*, 91. See also 124-25.
6. See for example Enns, *Inspiration and Incarnation*, 55-56.
7. Enns, *Evolution of Adam*, 126.
8. Enns, *Inspiration and Incarnation*, 131.
9. Enns, *The Evolution of Adam*, 102.

10. Peter Enns, “Fuller Meaning, Single Goal: A Christotelic Approach to the New Testament Use of the Old
in Its First-Century Interpretive Environment,” in *Three Views on the New Testament Use of the Old Testament*, ed.
Stanley N. Gundry et al. (Grand Rapids: Zondervan, 2008) 208; quoted in Don Collett, “Trinitarian Hermeneutics and the Unity of Scripture,” p. 10, n.26; accessed on the web site of Trinity School for Ministry, bit.ly/1iBGLYT.
11. See Collett, “Trinitarian Hermeneutics and the Unity of Scripture,” 10-11.
12. Bruce K. Waltke, “Revisiting Inspiration and Incarnation,” *Westminster Theological Journal* 71 (2009), 90.
13. See Collett, “Trinitarian Hermeneutics and the Unity of Scripture,” 11; referencing Christopher Seitz, “Creed, Scripture, and ‘Historical Jesus’: ‘in accordance with the Scriptures,'” in *The Rule of Faith: Scripture, Canon, and Creed in a Critical Age*, ed. Ephraim Radner & George Sumner (Harrisburg, PA: Morehouse Publishing, 1998), 126-35.
14. Christopher Seitz, “Canon, Narrative, and the Old Testament’s Literal Sense,” *Tyndale Bulletin* 59.1 (2008), 31-32.
15. Richard Bauckham, *Jesus and the God of Israel* (Grand Rapids: Eerdmans, 2008), 33.
16. See Collett, “Trinitarian Hermeneutics,” 11-12. Cf. Bauckham, *Jesus and the God of Israel*, 54.
17. Enns, *The Evolution of Adam*, 102.
18. Waltke, “Revisiting Inspiration and Incarnation,” 95.

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Dr. Ray Bohlin Presents "Natural Limits to Biological Change"

Discovery Institute's *Dallas Conference on Science and Faith* (January 22, 2022) featured Probe VP and Discovery Institute Fellow Dr. Ray Bohlin's breakout session on his book *The Natural Limits to Biological Change*.

Read Dr. Bohlin's article: The Natural Limits to Biological Change

His PowerPoint slides can be accessed here.

PowerPoint slides in a PDF document are here.

The All-Powerful God

Dr. Michael Gleghorn examines the important doctrine of the omnipotence of God, and what it means for God to be all-powerful.

Introducing Omnipotence

When the angel Gabriel appeared to Mary and told her that she would give birth to Israel's promised Messiah, she was

stunned. After all, she was a virgin. How could she possibly give birth to a son? But the angel informed her that God's power was more than sufficient to accomplish such a thing, "for nothing is impossible with God" (Luke 1:37; NIV).



A foundational element of a Christian worldview is a proper view of God. This article is about God's omnipotence. Although the term may sound a bit intimidating, it simply means that God is all-powerful. A number of scriptural passages speak to this issue.

For example, through the prophet Jeremiah God warned the people of Judah that because of their wickedness their land would soon be conquered by the Babylonians (Jer. 32:26-35). Nevertheless, God also promised that he would one day restore his people to their land and bless them with great prosperity (Jer. 32:37-44). As if to make clear that the Lord was completely able to fulfill his promise, the context twice leads us to reflect upon the fact that nothing is too difficult for God (Jer. 32:17, 27). The text, therefore, seems to clearly indicate that God is all-powerful, or omnipotent.

This power is revealed in a number of different ways. For example, the creation of the universe reveals his "eternal power and divine nature" (Rom. 1:20; Heb. 1:3). The resurrection of Jesus reveals his "mighty strength," which not only raised Christ from the dead, but which seated him at the right hand of God, "far above all . . . power and dominion" (Eph. 1:18-23). Finally, his might is also revealed in the gospel, which the apostle Paul described as "the power of God for the salvation of everyone who believes" (Rom. 1:16).

In fact, He is often referred to as God *Almighty*. In the book of Revelation the twenty-four elders who are seated before the

throne of God fall on their faces and worship the Lord declaring, “We give thanks to you, Lord God Almighty, the One who is and who was, because you have taken your great power and have begun to reign” (Rev. 11:17).

The cumulative picture is indeed a grand one—and quite naturally leads to the believer’s affirmation that God is all-powerful, or omnipotent. But how is this attribute to be understood? What exactly does it mean to say that God is omnipotent? These are some of the questions with which we’ll grapple in the remainder of this article.

Omnipotence and Creation

The Apostle’s Creed begins, “I believe in God the Father almighty, creator of heaven and earth.”{1} Not only does this statement affirm a central (and biblical) Christian truth-claim, namely, that God is the creator of the heavens and the earth (Gen. 1:1), it also clearly links this affirmation with God’s attribute of omnipotence by referring to him as “God the Father *almighty*.” By linking God’s omnipotence with creation in this way, the creed reaffirms what the Apostle Paul had previously taught in his letter to the Romans, that God’s “eternal power and divine nature” are “clearly seen in what has been made, so that men are without excuse” (Rom. 1:20).

But why does the Bible, and Christian tradition, link God’s omnipotence with creation in this way? One of the most important reasons is to be found in the Christian doctrine of creation itself. You see, unlike certain pagan doctrines of creation, which taught that the universe was *formed* out of pre-existent matter, Christianity teaches that God *created* the universe out of nothing. And when we say that God created the universe “out of nothing,” we are claiming, as the theologian Thomas Torrance reminds us, that the universe “is not created out of anything.” Rather, “it came into being through the absolute fiat of God’s Word in such a way that whereas

previously there was nothing, the whole universe came into being."{2}

Now what's astonishing about this is that it's perfectly consistent with today's standard Big Bang model of the origin of the universe! This is because, as physicist P. C. W. Davies observes, "On this view the big bang represents the creation event; the creation not only of all the matter and energy in the universe, but also of spacetime itself."{3} Hence, the origin posited by this model is "an absolute origin" out of nothing.{4}

This is why omnipotence and creation are so closely linked in the Christian tradition. It's one thing to merely *form* a universe out of pre-existent matter. It is another thing entirely to *create* a universe out of absolutely nothing! As Christian philosophers Paul Copan and Bill Craig observe, "It is difficult to imagine any more stunning display of God's almighty power than the world's springing into being out of nothing, at his mere command."{5}

Omnipotence and Morality

Now you might be thinking that if God is all-powerful, then he can do absolutely anything. But if we adopt this understanding of omnipotence, we quickly run into conflict with the teaching of Scripture, for Scripture tells us plainly that there are some things God cannot do.

For example, in Numbers 23:19 we read: "God is not a man, that he should lie, nor a son of man, that he should change his mind. Does he speak and then not act? Does he promise and not fulfill?" According to this text, God is not the sort of being to tell a lie. When he makes a promise, we can be confident that he will keep it, because God does not lie (see also 1 Sam. 15:29 and Tit. 1:2).

This is particularly important for New Testament believers,

for God has made many wonderful promises to those who have trusted Christ for salvation. Is there any reason to fear that God may not keep some of these promises? No, there is not, for as the author of Hebrews reminds us, “it is impossible for God to lie” by making a promise and then failing to keep it. And because of this, our hope in Christ is “firm and secure” (Heb. 6:18-19).

But if we say that God cannot lie, or break a promise, or do anything else that is morally evil, then haven’t we denied that God is all-powerful? Not necessarily. The vast majority of Christian theologians throughout the history of the church have consistently taught that God’s omnipotence does not include the ability to do that which is logically impossible or contradictory.

Of course, there is no contradiction in saying that an omnipotent being can commit a morally evil act. But there does seem to be a contradiction in saying that a completely good, morally perfect being can perform such an act. As a morally perfect being, God not only has no moral faults, but as James reminds us, he cannot even be tempted by sin and evil (James 1:13). Hence, as one Christian philosopher observes, “for an essentially morally perfect being, doing what is wrong is just a special case of doing what is impossible for that being to do.”{6} And clearly, the inability to do what is morally evil should not be seen as detracting from God’s omnipotence. Instead, it should be viewed as exalting his moral perfection.

Omnipotence and Freedom

We’ve seen that omnipotence cannot mean that God can do absolutely *anything*. For as a morally perfect being, God is incapable of doing what is morally evil. This might lead us to think that God can do anything that is consistent with his morally perfect nature. But most theologians would still reject such a view. They would insist that some things are

just logically impossible and that it can't count against God's omnipotence to admit that he cannot do such things.

Let's consider an example. A square is a geometrical object with four angles. A triangle has only three. This being so, what do you think the chances are of constructing a square triangle? Not very good, right? After all, if something has four angles, then it has more than three. And if it has only three angles, then it has less than four. Regardless of how much power one has, a square triangle is a *logical* impossibility.

With this in mind, let's now consider another example. Suppose that John is the kind of person who, if married, would *always* freely seek his wife's input before making any major financial decision. If this is true, then it would seem that not even God could create John, place him in such circumstances, and have him freely *refrain* from seeking his wife's input—for this is simply *not* what John would *freely* do in such circumstances.

Of course, God still has plenty of options. He could always refuse to create John, or refuse to let him get married, or refuse to let him be confronted with a major financial decision. Alternatively, God could put John in the circumstances we're considering, but *make* him decide not to seek his wife's input. But what he cannot do is place John in these circumstances and then *make* him *freely* decide not to seek his wife's input. For to *make* John *freely* do something is as logically impossible as creating a square triangle.{7}

Of course, God's inability to perform a logically impossible task can't fairly count against his omnipotence. For this would suggest "that a task has been specified, that transcends the capacities . . . of Omnipotence. But no task at all has been specified by uttering a self-contradictory . . . mixture of words."{8} So we needn't worry that we've abandoned the doctrine of omnipotence by admitting that God cannot perform meaningless tasks! We've simply clarified the meaning of

omnipotence.

The Importance of Omnipotence

The doctrine that God is omnipotent, or all-powerful, is, as one philosopher has observed, “not a bit of old metaphysical luggage that can be abandoned with relief.” Instead, it’s “indispensable for Christianity.” After all, God has made many wonderful promises to his people. But if he “were not almighty . . . he might . . . sincerely promise, but find fulfillment beyond his power.”{9} So only if God is omnipotent can we confidently bank on his promises. But this is a bit of a two-edged sword.

On the one hand, the doctrine of God’s omnipotence can be very comforting for believers, who are rightly related to God through faith in Jesus Christ. After all, “God is our refuge and strength, an ever-present help in trouble” (Psalm 46:1). Whatever problems and difficulties we face in life, our omnipotent God has more than enough power to see us through. If he chooses, he can easily deliver us from fire or water, sword or famine, sickness or disease. And if he lets us go through such things, he can provide all the grace and strength we need to endure. While the suffering of God’s saints can indeed be great, we must also remember that this life is not the end of our story, for “in keeping with his promise we are looking forward to a new heaven and a new earth, the home of righteousness” (2 Pet. 3:11). A promise our omnipotent God is more than able to fulfill!

On the other hand, however, an omnipotent Deity is a most frightening prospect for anyone who persists in spurning his love and grace. For as the author of Hebrews reminds us, we are each “destined to die once, and after that to face judgment” (9:27) and “it is a dreadful thing to fall into the hands of the living God” (10:31)—especially when that God is all-powerful! It’s a sobering thought to remind ourselves that

not one of us can ultimately escape God's power and judgment. If we make the omnipotent God our enemy, then no one can deliver us from his hand.

Thankfully, however, peace with God is available to anyone who wants it. The Bible tells us that God does not want anyone to perish, but for all to come to repentance (2 Pet. 3:9). He pleads with men to be reconciled to God through faith in Jesus Christ (2 Cor. 5:16-21). "Whoever is thirsty," he says, "let him come . . . let him take the free gift of the water of life" (Rev. 22:17b). The omnipotent God offers us all good things in Christ—and nothing can prevent him making good on his offer!

Notes

1. John H. Leith, ed., *Creeds of the Churches: A Reader in Christian Doctrine from the Bible to the Present*, 3rd ed. (Louisville: John Knox, 1982), 24.
2. Thomas F. Torrance, *The Christian Doctrine of God: One Being, Three Persons* (Edinburgh: T & T Clark, 1996), 207; cited in Paul Copan and William Lane Craig, *Creation out of Nothing: A Biblical, Philosophical, and Scientific Exploration* (Grand Rapids: Baker, 2004), 14.
3. P. C. W. Davies, "Spacetime Singularities in Cosmology," in *The Study of Time III*, ed. J. T. Fraser (New York: Springer Verlag, 1978), 78-79; cited in Copan and Craig, *Creation out of Nothing*, 222.
4. Copan and Craig, *Creation out of Nothing*, 223.
5. Ibid., 26.
6. Edward Wierenga, "Omnipotence Defined," *Philosophy and Phenomenological Research 43*, no. 3 (1983): 367.
7. See J. P. Moreland and William Lane Craig, *Philosophical Foundations for a Christian Worldview* (Downers Grove: InterVarsity Press, 2003), 539.
8. Antony Flew, ed., *A Dictionary of Philosophy*, Rev. 2nd ed. (New York: Gramercy Books, 1999), s.v. "impossibility."
9. All of these citations are taken from P. T. Geach,

"Omnipotence," *Philosophy 48*, no. 183 (1973): 8.
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The Five Crises in Evolutionary Theory

Dr. Ray Bohlin discusses five crises in evolutionary theory: 1) the unsubstantiation of a Darwinian mechanism of evolution, 2)The total failure of origin of life studies to produce a workable model, 3) The inability of evolutionary mechanism to explain the origin of complex adaptations, 4) The bankruptcy of the blind watchmaker hypothesis, and 5) The biological evidence that the rule in nature is morphological stability over time and not constant change.

 *This article is also available in Spanish.*

The Case of the Missing Mechanism

The growing crisis in Darwinian theory is becoming more apparent all the time. The work of creationists and other non-Darwinians is growing and finding a more receptive ear than ever before. In this discussion I want to elaborate on what I believe are the five critical areas where Darwinism and evolutionary theory in general are failing. They are:

1. The unsubstantiation of a Darwinian mechanism of evolution
2. The total failure of origin of life studies to produce a workable model
3. The inability of evolutionary mechanism to explain the origin of complex adaptations
4. The bankruptcy of the blind watchmaker hypothesis

5. The biological evidence that the rule in nature is morphological stability over time and not constant change.

Much of the reason for evolution's privileged status has been due to confusion over just what people mean when they use the word evolution. Evolution is a slippery term. If evolution simply means "change over time," this is non-controversial. Peppered moths, Hawaiian drosophila fruit flies, and even Galapagos finches are clear examples of change over time. If you say that this form of evolution is a fact, well, so be it. But many scientists extrapolate beyond this meaning. Because "change over time" is a fact, the argument goes, it is also a fact that moths, fruit flies, and finches all evolved from a remote common ancestor. But this begs the question.

The real question, however, is where do moths, flies, and finches come from in the first place? Common examples of natural selection acting on present genetic variation do not tell us how we have come to have horses, wasps, and woodpeckers, and the enormous varieties of living animals. Evolutionists will tell you that this is where mutations enter the picture. But mutations do not improve the scenario either. In speaking of all the mutation work done with bacteria over several decades, the great French zoologist and evolutionist Pierre-Paul Grasse' said:

> What is the use of their unceasing mutations if they do not change? In sum, the mutations of bacteria and viruses are merely hereditary fluctuations around a median position; a swing to the right, a swing to the left, but no final evolutionary effect.

When I speak of evolution or Darwinism, it is the origin of new biological forms, new adaptive structures, morphological and biochemical novelties that I am referring to. This is precisely what has not yet been explained. When people question the popular explanations of the origin of complex adaptations such as the vertebrate limb, or sexual

reproduction, or the tongue of the woodpecker, or the reptilian hard-shelled egg, they are usually given a litany of reasons why these structures are beneficial to the organisms. More precisely, the selective advantage of these structures is offered as the reason they evolved. But this begs the question again. It is not sufficient for an evolutionist to explain the function of a particular structure. What is necessary is to explain the mechanistic origin of these structures!

Natural selection does explain how organisms adapt to minor changes in their environment. Natural selection allows organisms to do what God commanded them to do. That is to be fruitful and multiply. Natural selection does not, however, explain the crucial question of how complex adaptations arose in the first place.

The Origin of Life

We have been led to believe that it is not to difficult to conceive of a mechanism whereby organic molecules can be manufactured in a primitive earth and organize themselves into a living, replicating cell. In fact, the ease by which this can (allegedly) happen is the foundation for the popular belief that there are numerous planets in the universe which contain life. Nothing could be further from the truth.

Early experiments suggested that it was relatively simple to produce some of the building blocks of life such as amino acids, the components of proteins. However, the euphoria of the Miller- Urey experiment of 1953 has given way to a paradigm crisis of 1993 in origin of life research. The wishful, yet workable atmosphere of ammonia, hydrogen, methane, and water vapor has been replaced by the more realistic, but stingy atmosphere of nitrogen, carbon dioxide, carbon monoxide, hydrogen sulfide, and hydrogen cyanide. This is the stuff that volcanoes belch out. This atmosphere poses a much more difficult challenge. Molecules relevant for life would be much rarer. Even more damaging is the possibility of

the presence of molecular oxygen in the atmosphere from the break-up of water vapor. Molecular oxygen would poison any reaction leading to biologically significant molecules.

Coacervates, microspheres, the "RNA world," and other scenarios all have serious flaws obvious to everyone in the field except those who continue work with that particular scenario. Some have privately called this predicament a paradigm crisis. There is no central competing model, just numerous ego-driven scenarios. Even the experiments in which researchers try to simulate the early earth have been severely criticized. These experiments generally hedge their bets by using purified reactants, isolated energy sources, exaggerated energy levels, procedures which unrealistically drive the reaction toward the desired product and protect the products from the destructive effects of the energy sources which produced them in the first place.

The real situation was summed up rather well by Klaus Dose:

> More than 30 years of experimentation on the origin of life in the fields of chemical and molecular evolution have led to a better perception of the immensity of the problem of the origin of life on earth rather than to its solution. At present all discussions on principal theories and experiments in the field either end in stalemate or in a confession of ignorance." [From *Interdisciplinary Science Review* 13(1988):348-56.]

But all of these difficulties together, as staggering as they are, are not the real problem. The major difficulty in chemical evolution scenarios is how to account for the informational code of DNA without intelligence being a part of the equation. DNA carries the genetic code: the genetic blueprint for constructing and maintaining a biological organism. We often use the terms of language to describe DNA's activity: DNA is "transcribed" into RNA; RNA is "translated" into protein; geneticists speak of the "genetic code." All

these words imply intelligence, and the DNA informational code requires intelligent preprogramming, yet a purely naturalistic beginning does not provide such input. Chemical experiments may be able to construct small sequences of nucleotides to form small molecules of DNA, but this doesn't make them mean anything. There is no source for the informational code in a strictly naturalistic origin of life.

The Inability to Account for Complex Adaptations

Perhaps the single greatest problem for evolutionary biologists is the unsolved problem of morphological and biochemical novelty. In other words, some aspects of evolutionary theory describe accurately how existing organisms are well adapted to their environments, but do a very poor job of explaining just how the necessary adaptive structures came about in the first place.

Darwinian explanations of complex structures such as the eye and the incredible tongue of the woodpecker fall far short of realistically attempting to explain how these structures arose by mutation and natural selection. The origin of the eye in particular, caused Darwin no small problem. His only suggestion was to look at the variety of eyes in nature, some more complex and versatile than others, and imagine a gradual sequence leading from simple eyes to more complex eyes. However, even the great Harvard evolutionist, Ernst Mayr, admits that the different eyes in nature are not really related to each other in some simple-to-complex sequence. Rather, he suggests that eyes probably had to evolve over forty different times in nature. Darwin's nightmare has never been solved. It has only been made 40 times more frightening for the evolutionist.

In his 1987 book, *Theories of Life*, Wallace Arthur said:

> One can argue that there is no direct evidence for a

> Darwinian origin of a body plan—black *Biston Betularia* certainly do not constitute one! Thus in the end we have to admit that we do not really know how body plans originate.

In 1992, Keith Stewart Thomson wrote in the *American Zoologist* that:

> While the origins of major morphological novelties remain unsolved, one can also view the stubborn persistence of macroevolutionary questioning…as a challenge to orthodoxy: resistance to the view that the synthetic theory tells us everything we need to know about evolutionary processes.

The ability to explain major morphological novelties is not the only failing of evolutionary theory. Some argue that molecular structures are even more difficult to explain. The molecular architecture of the cell has recently described by molecular biologist Michael Behe as being irreducibly complex systems which must have all the components present in order to be functional. The molecular workings of cilia, electron transport, protein synthesis, and cellular targeting readily come to mind. If the systems are irreducibly complex, how do they build slowly over long periods of time out of systems that are originally doing something else?

While publishing hundreds of articles pertaining to molecular homology and phylogeny of various proteins and nucleic acids over the last ten years, the *Journal of Molecular Evolution* did not publish one article attempting to explain the origin of a single biomolecular system. Those who make molecular evolution their life's work are too busy studying the relationship of the cytochrome c molecule in man to the cytochrome c molecule in bacteria, rather than the more fundamental question of where cytochrome c came from in the first place!

Clearly then, whether we are talking about major morphological novelties such as the wings of bats and birds, the swimming

adaptations of fish and whales, the human eye or the molecular sub- microscopic workings of mitochondria, ribosomes, or cilia, evolutionary theory has failed to explain how these structures could arise by natural processes alone.

The Bankruptcy of the Blind Watchmaker Hypothesis

In his 1986 book, *The Blind Watchmaker*, Richard Dawkins states, "Biology is the study of complicated things that give the appearance of having been designed for a purpose." He explains that

> Natural selection is the blind watchmaker, blind because it does not see ahead, does not plan consequences, has no purposes in view. Yet the living results of natural selection overwhelmingly impress us with the appearance of design as if by a master watchmaker, impress us with the illusion of design and planning.

Darwinism critic, Philip Johnson, has quipped that the watchmaker is not only blind but unconscious!

Dawkins later suggests just how this process may have brought about the development of wings in mammals. He says:

> How did wings get their start? Many animals leap from bough to bough, and sometimes fall to the ground. Especially in a small animal, the whole body surface catches the air and assists the leap, or breaks the fall, by acting as a crude aerofoil. Any tendency to increase the ratio of surface area to weight would help, for example flaps of skin growing out in the angles of joints…(It) doesn't matter how small and unwinglike the first wingflaps were. There must be some height, call it h, such that an animal would just break its neck if it fell from that height. In this critical zone, any improvement in the body surface's ability to catch the air and break the fall, however slight the improvement, can make

> the difference between life and death. Natural selection will then favor slight, prototype wingflaps. When these flaps have become the norm, the critical height h will become slightly greater. Now a slight further increase in the wingflaps will make the difference between life and death. And so on, until we have proper wings.

This can sound rather seductively convincing at first. However there are three faulty assumptions being used.

The first doubtful assumption is that nature can provide a whole chain of favorable mutations of the precise kind needed to change forelimbs into wings in a continuous line of development. What is the larger miracle, an instantaneous change or a whole series of thousands of tiny changes in the proper sequence?

The other assumption is “all things being equal.” These mutations must not have secondary harmful effects. How is the creature’s grasping ability compromised while these wingflaps grow? These little shrew-like animals may slowly be caught between losing their adaptiveness in the trees before they can fully utilize their “developing” wings. Or there might be some seemingly unrelated and unforeseen effect that compromises survivability.

A third faulty assumption is the often used analogy to artificial selection. “If artificial selection can do so much in only a few years,” so the refrain goes, “just think what natural selection can do in millions of years.” But artificial selection works because it incorporates foresight and conscious purpose, the absence of which are the defining qualities of the blind watchmaker. In addition, artificial selection actually demonstrates the limits to change since an endpoint in the selection process is usually reached very quickly.

The blind watchmaker hypothesis, when analyzed carefully,

falls into the category of fanciful stories that are entertaining—but which hold no resemblance to reality.

The Prevalence of Stasis over Mutability

Rather than observing organisms gradually evolving into other forms, the fossil record speaks of “sudden appearance” and “stasis.” New types appear suddenly and change very little after their appearance. The rarity of gradual change examples in the fossil record were revealed as the trade secret of paleontology by Steven J. Gould of Harvard. Gould also refers to stasis as “data” in the paleontological sense. These are significant observations.

Darwin predicted that there should be innumerable transitional forms between species. But the reality of paleontology (the study of fossils) is that new forms appear suddenly with no hint of the “gradual” change predicted by evolution. Not only that, but once these new forms have appeared, they remain relatively unchanged until the present day or until they become extinct.

Some animals and plants have remained unchanged for literally hundreds of millions of years. These “living fossils” can be more embarrassing for the evolutionist than they often care to admit. One creature in particular, the coelacanth, is very instructive. The first live coelacanth was found off the coast of Madagascar in 1938. Coelacanths were thought to be extinct for 100 million years. But most evolutionists saw this discovery as a great opportunity to glimpse the workings of a tetrapod ancestor. Coelacanths resemble the proposed ancestors of amphibians. It was hoped that some clues could be derived from the modern coelacanth of just how a fish became preadapted for life on land, because not only was there a complete skeleton, but a full set of internal organs to boot. The results of the study were very disappointing. The modern coelacanth showed no evidence of internal organs preadapted for use in a terrestrial environment. The coelacanth is a

fish—nothing more, nothing less. Its bony fins are used as exceptionally well-designed paddles for changing direction in deep-sea environment, not the proto-limbs of future amphibians.

Nowhere is the problem of sudden appearance better demonstrated than in the Burgess Shale found in the Canadian Rockies. The Burgess Shale illustrates that in the Cambrian period (which evolutionists estimate as being over 500 million years ago) nearly all of the basic body plans (phyla) of animals existing on earth came into existence in a geological instant (defined as only 20-30 million years), and nothing that new has appeared since that time. The Cambrian explosion as it is called is nothing less than astounding. Sponges, jellyfish, worms, arthropods, mollusks, echinoderms, and many other stranger-than-fiction creatures are all found to suddenly appear in the Cambrian without a hint of what they descended from nor even how they could all be related to each other. This is the opposite expectation of Darwinism which would have predicted each new body plan emerging from pre-existing phyla over long periods of time. The Cambrian explosion is a direct contradiction of Darwinian evolution.

If Darwin were alive today, I believe he would be terribly disappointed. There is less evidence for his theory now than in his own day. The possibility of the human eye evolving may have caused him to shudder, but the organization of the simplest cell is infinitely more complex. Perhaps a nervous breakdown would be more appropriate!

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“So What Evidence IS There Against Evolution?”

Dr. Bohlin,

I just read an article by yourself condemning evolution and the teaching of it. You state your opinion that scientists should teach the controversy behind the teaching thereof. Is this the job of scientists? They cannot teach the issues in every discovery ever made and every theory they believe.

They would be teaching a course on the history of science rather than a course on science if they did. Evolution is accepted as proven in the scientific community, so why should scientists justify teaching it? We teach science in science classes and theology in theology classes. And what information is in conflict with it? You made frequent reference to it, but never said exactly what it is.

> *You state your opinion that scientists should teach the controversy behind the teaching thereof. Is this the job of scientists? They cannot teach the issues in every discovery ever made and every theory they believe.*

Actually, science textbooks do this all the time, especially with the more important and central theories. Check out a high school or college introductory biology text that emphasizes evolution and I can just about guarantee that there will be some discussion about just what Darwin was attempting to overthrow in proposing his theory of natural selection. You’re not really teaching science unless you also teach some of its history as well.

> *They would be teaching a course on the history of science rather than a course on science if they did. Evolution is accepted as proven in the scientific community, so why should scientists justify teaching it? We teach science in*

science classes and theology in theology classes. And what information is in conflict with it? You made frequent reference to it, but never said exactly what it is.

The list of problems with evolution is long and has everything to do with science and nothing to do with theology. It has to do with evidence, both the lack of evidence for evolution on the broadest scale, and the presence of evidence for design.

Lack of Evidence for Evolution:

- No workable system for a naturalistic origin of life.
- Inability of evolutionary mechanisms to explain anything but minor variation in finch beaks and moth coloration.
- Rapid origin of nearly all animal phyla in Cambrian period with little or no evidence of ancestors.
- Early life is now known to not be monophyletic, a classic prediction of Darwinian evolution. Molecular evolutionists have had to invent a polyphyletic origin of life and massive gene transfers in earth's early history to explain the molecular data.
- Despite the presence of a few putative transitional forms in the fossil record, transitions are rare (Darwin expected them to be everywhere). The invertebrate fossil record is virtually devoid of any transitional forms (BTW, invertebrates comprise around 90% of the fossil record) .
- The fossil record demonstrates stasis, not a gradual process of origin for new forms.
- We see a lot of evidence for structures falling into disuse in organisms but no examples of new organs appearing.

Evidence for Design:

- Irreducible complexity of many cellular molecular structures and pathways.
- The genetic code is an informational code and informational codes only arise from an intelligent source.
- Junk DNA, a label derived from Darwinian interpretations

of non-transcribed DNA, is junk no longer. The "junk" continues to be found functional in surprising ways.

• The overall complexity of the cell was not anticipated by Darwinists, and the last 50 years has yielded surprise after surprise as to the order and complexity of living cells.

• Embryology is looking more and more like a biological process with a goal that cannot be arrived at by natural selection. Body plans are determined early in development but mutations in early development are the harshest and most deleterious mutations of all. An early mistake renders a ruined organism.

I have other articles on our website, www.probe.org, that will elaborate with references most of the above claims.

Everything I have cited is known in the scientific community, but textbooks and media reports are routinely devoid of these evidences because the scientific community believes that science must only seek natural causes for all the biological realities they discover. (How the physical operates is reasonably to be assumed to be naturalistic, but the origin of physical and biological objects may not be so.) This is nothing more than a philosophical bias and not a scientific one. A scientist should be willing to follow the evidence wherever it leads and not wherever he wants it to lead. One of Richard Feynman's basic principles for scientists was that a scientist must not fool him or herself, and he is the easiest person to fool. Evolutionary biologists are fooling themselves with an errant definition of science which leads to a suppression of real evidence to the contrary. Teaching the controversy is the only way at the moment to get around the naturalistic filibuster going on in science and in science education. Evolutionists are now fighting back hard because, I believe, that deep down they realize that a fully open and public discussion of the evidence is not to their advantage.

Respectfully,

Ray Bohlin, Ph.D.
Probe Ministries

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Evidence for God's Existence

Romans chapter 1 says that God has planted evidence of Himself throughout His creation so we are without excuse. Sue Bohlin looks at different types of evidence indicating that God really does exist.

A "Just Right" Universe

There's so much about the universe, and our world in particular, that we take for granted because it works so well. But Christian astronomer Dr. Hugh Ross has cited twenty-six different characteristics about the universe that enable it to sustain life. And there are thirty-three characteristics about our galaxy, our solar system, and the planet Earth that are finely-tuned to allow life to exist.{1} I do well to make the meat, potatoes, vegetables, and bread all come out at the same time for dinner; we're talking about fifty-nine different aspects all being kept in perfect balance so the universe hangs together and we can live in it!

Our Earth, for instance, is perfectly designed for life. It's the "just right" size for the atmosphere we need. Its size and corresponding gravity hold a thin, but not too thin, layer of gases to protect us and allow us to breathe. When astronaut John Glenn returned to space, one of the things that struck him was how thin and fragile our atmosphere is (only 50 miles above the Earth). If our planet were smaller it couldn't support an atmosphere, like on Mercury. If it were larger,

like Jupiter, the atmosphere would contain free hydrogen, which is poison for us.{2} Earth is the only planet we know of that contains an atmosphere that can support human, animal, and plant life.

The Earth is also placed at a "just right" distance from the sun and the other planets in our solar system. If we were closer to the sun, we'd burn up. If we were farther away, we'd freeze. Because Earth's orbit is nearly circular, this slightly elliptical shape means that we enjoy a quite narrow range of temperatures, which is important to life. The speed of Earth's rotation on its axis, completing one turn every 24 hours, means that the sun warms the planet evenly. Compare our world to the moon, where there are incredible temperature variations because it lacks sufficient atmosphere or water to retain or deflect the sun's energy.

Speaking of the moon, its important that there is only one moon, not two or three or none, and it's the "just right" size and distance from us. The moon's gravity impacts the movement of ocean currents, keeping the water from becoming stagnant.{3}

Water itself is an important part of a "just right" world. Plants, animals and human beings are mostly made of water, and we need it to live. One of the things that makes Earth unique is the abundance of water in a liquid state.

Water has surface tension. This means that water can move upward, against gravity, to bring liquid nutrients to the tops of the tallest plants.

Everything else in the world freezes from the bottom up, but water freezes from the top down. Everything else contracts when it freezes, but water expands. This means that in winter, ponds and rivers and lakes can freeze at the surface, but allow fish and other marine creatures to live down below.

The fact that we live on a "just right" planet in a "just

right" universe is evidence that it all was created by a loving God.

The Nagging Itch of "Ought"

As a mother, I was convinced of the existence of a moral God when my children, without being taught, would complain that something wasn't "fair." Fair? Who taught them about fair? Why is it that no one ever has to teach children about fairness, but all parents hear the universal wail of "That's not fa-a-a-a-a-air!" The concept of fairness is about an internal awareness that there's a certain way that things ought to be. It's not limited to three-year-olds who are unhappy that their older siblings get to stay up later. We see the same thing on "Save the Whales" bumper stickers. Why should we save the whales? Because we ought to take care of the world. Why should we take care of the world? Because we just should, that's why. It's the right thing to do. There's that sense of "ought" again.

Certain values can be found in all human cultures, a belief that we act certain ways because they're the right thing to do. Murdering one's own people is wrong, for example. Lying and cheating is wrong. So is stealing. Where did this universal sense of right and wrong come from? If we just evolved from the apes, and there is nothing except space, time, and matter, then from where did this moral sense of right and wrong arise?

A moral sense of right and wrong isn't connected to our muscles or bones or blood. Some scientists argue that it comes from our genes – that belief in morality selects us for survival and reproduction. But if pressed, those same scientists would assure you that ultimate right and wrong don't exist in a measurable way, and it's only the illusion of morality that helps us survive. But if one researcher stole another's data and published results under his own name, all the theories about morality as illusion would go right out the

window. I don't know of any scientist who wouldn't cry, "That's not fair!" Living in the real world is a true antidote for sophisticated arguments against right and wrong.

Apologist Greg Koukl points out that guilt is another indicator of ultimate right and wrong. "It's tied into our understanding of things that are right and things that are wrong. We feel guilty when we think we've violated a moral rule, an "ought." And that feeling hurts. It doesn't hurt our body; it hurts our souls. An ethical violation is not a physical thing, like a punch in the nose, producing physical pain. It's a soulish injury producing a soulish pain. That's why I call it ethical pain. That's what guilt is – ethical pain."{4}

The reason all human beings start out with an awareness of right and wrong, the reason we all yearn for justice and fairness, is that we are made in the image of God, who is just and right. The reason we feel violated when someone does us wrong is that a moral law has been broken – and you can't have a moral law without a moral law giver. Every time we feel that old feeling of, "It's not fa-a-a-a-a-air!" rising up within us, it's a signpost pointing us to the existence of God. He has left signposts pointing to Himself all over creation. That's why we are without excuse.

Evidence of Design Implies a Designer



If you've ever visited or seen pictures of Mount Rushmore (South Dakota USA), you cannot help but look at the gigantic sculpture of four presidents' faces and wonder at the skill of the sculptor. You know, without having to be told, that the natural forces of wind and rain did not erode the rock into those shapes. It took the skilled hands of an artist.

William Paley made a compelling argument years ago that the intricacies of a watch are so clearly engineered that it cannot be the product of nature: a watch demands a watchmaker. In the same way, the more we discover about our world and ourselves, the more we see that like an expertly-fashioned watch, our world and we ourselves have been finely crafted with intentional design. And design implies a designer.

Since we live in our bodies and take so much of our abilities for granted, it's understandable that we might miss the evidence of design within ourselves – much like a fish might be oblivious to what it means to be wet. Dr. Phillip Bishop at the University of Alabama, challenges us to consider what would happen if we commissioned a team of mechanical engineers to develop a robot that could lift 500 pounds. And let's say we also commissioned them to design a robot that could play Chopin. They could probably do that. But what if we asked them to come up with a robot that could do both, and limit the robot's weight to 250 pounds, and require that it be able to do a variety of similar tasks? They'd laugh in our faces, no matter how much time or money we gave them to do it. But you know, all we'd be asking them to do is to come up with a very crude replication of former football player Mike Reid.{5}

Probably the greatest evidence of design in creation is DNA, the material of which our genes are made, as well as the genetic material for every living thing on the planet. One of the startling discoveries about DNA is that it is a highly complex informational code, so complex that scientists struggle hard to decipher even the tiniest portions of the various genes in every organism. DNA conveys intelligent information; in fact, molecular biologists use language terms – code, translation, transcription – to describe what it does and how it acts. Communication engineers and information scientists tell us that you can't have a code without a code-maker, so it would seem that DNA is probably the strongest indicator in our world that there is an intelligent Designer

behind its existence.

Dr. Richard Dawkins, a professor of biology who writes books and articles praising evolution, said in his book *The Blind Watchmaker,* "Biology is the study of complicated things that give the appearance of having been designed for a purpose."{6} Even those who desperately fear the implications of design keep running into it.

Those who deny the evidence of a designer are a lot like the foolish fisherman. If he fails to catch a fish, he says, "Aha! This proves there are no fish!" He doesn't want to consider the possibility that it might be he is an inept fisherman. Since science cannot measure the intangible or the supernatural, there are many people who say, "Aha! There is no Creator."{7} Foolish fishermen deny the evidence that God exists and has left His fingerprints all over creation.

The Reliability of the Bible

Every religion has its own holy book, but the Bible is different from all the others. It claims to be the very Word of God, not dropped out of the sky but God-breathed, infused with God's power as He communicated His thoughts and intent through human writers.

The Bible was written over a period of 1500 years, by about forty different writers, on three different continents. They addressed a wide variety of subjects, and yet the individual books of the Bible show a remarkable consistency within themselves. There is a great deal of diversity within the Bible, at the same time displaying an amazing unity. It presents an internally consistent message with one great theme: God's love for man and the great lengths to which He went to demonstrate that love.

If you pick up any city newspaper, you won't find the kind of agreement and harmony in it that is the hallmark of the

biblical books. A collection of documents that spans so much time and distance could not be marked by this unity unless it was superintended by one Author who was behind it all. The unity of the Bible is evidence of God's existence.

One other aspect of the Bible is probably the greatest evidence that God exists and that He has spoken to us in His holy book: fulfilled prophecy. The Bible contains hundreds of details of history which were written in advance before any of them came to pass. Only a sovereign God, who knows the future and can make it happen, can write prophecy that is accurately and always – eventually – fulfilled.

For example, God spoke through the prophet Ezekiel against the bustling seaport and trade center of Tyre. In Ezekiel 26:3-6, He said He would bring nations against her: "They shall destroy the walls of Tyre and break down her towers; and I will scrape her soil from her, and make her a bare rock." Ezekiel 26-28 has many details of this prophecy against Tyre, which would be like Billy Graham announcing that God was going to wipe New York off the map.

Tyre consisted of two parts, a mainland city and an island a half- mile offshore. The first attack came from the Babylonian king Nebuchadnezzar, who laid siege to Tyre for thirteen years. Finally, his battering rams broke through the walls, and he tore down the city's towers. But the island part of the city wasn't yet destroyed, because this prophecy was fulfilled in stages. For 250 years it flourished, until Alexander the Great set his sights on Tyre. Even without a navy, he was able to conquer this island city in what some consider his greatest military exploit. He turned the ruined walls and towers of Old Tyre into rubble, which he used to build a causeway from the mainland to the island. When he ran out of material, he scraped the soil from the land to finish the land- bridge, leaving only barren rocks where the old city used to be. He fulfilled the prophecy, "They will break down your walls and destroy your pleasant houses; your stones and timber and soil

they will cast into the midst of the waters”(Ez. 26:12).

Fulfilled prophecy is just one example of how God shows He is there and He is not silent. How else do we explain the existence of history written in advance?

Jesus: The Ultimate Evidence

The most astounding thing God has ever done to show His existence to us is when He passed through the veil between heaven and earth and came to live among us as a man.

Jesus Christ was far more than just a great moral teacher. He said things that would be outrageous if they weren’t true, but He backed them up with even more outrageous signs to prove they were. Jesus claimed not to speak for God as a prophet, but to be God in human flesh. He said, “If you’ve seen Me, you’ve seen the Father” (John 14:9), and, “The Father and I are one” (John 10:30). When asked if He was the Messiah, the promised Savior, He said yes.{8} He told his contemporaries, “Before Abraham was, I am”(John 8:58). The fact that His unbelieving listeners decided then to kill Him shows that they realized He was claiming to be Yahweh, God Almighty.

When Jesus told His followers that He was the Good Shepherd (John 10:11-18), they would immediately be reminded of a passage in the book of Ezekiel where Yahweh God pronounced Himself shepherd over Israel (Ez. 34:1-16). Jesus equated Himself with God.

But words are cheap, so Jesus backed up His words with miracles and signs to validate His truth-claims. He healed all sorts of diseases in people: the blind, the deaf, the crippled, lepers, epileptics, and even a woman with a twelve-year hemorrhage. He took authority over the demons that terrorized and possessed people. He even raised the dead.

Jesus showed His authority over nature, as well. He calmed a terrible storm with just a word. He created food out of thin

air, with bread and fish left over! He turned water into wine. He walked on water.

He showed us what God the Father is like; Jesus was God with skin on. He was loving and sensitive, at the same time strong and determined. Children and troubled people were drawn to Him like a magnet, but the arrogant and self-sufficient were threatened by Him. He drenched people with grace and mercy while never compromising His holiness and righteousness.

And after living a perfect life, He showed His love to us by dying in our place on a Roman cross, promising to come back to life. Who else but God Himself could make a promise like thatand then fulfill it? The literal, bodily resurrection of Jesus Christ is the final, greatest proof that there is a God, that Jesus is God Himself, and that God has entered our world and showed us the way to heaven so we can be with Him forever. He said, "I am the way, the truth, and the life; no one comes to the Father except by Me" (John 14:6).

God exists, and He has spoken. He made a "just right" universe that is stamped with clues of its Maker. He placed eternity in our hearts, as Ecclesiastes tells us, and all people have a strong moral streak because we are made in the image of a moral God. The evidence of design in our bodies, our world and the universe is a signpost pointing to a loving, intelligent Designer behind it all. The unity of the Bible and the hundreds of fulfilled prophecies in it show the mind of God behind its creation. And we've looked at the way Jesus punched through the space-time continuum to show us what God looks like, and opened the doorway to heaven. Jesus is the clearest evidence of all that God does exist.

Notes

1. Hugh Ross, *Creator and the Cosmos*. (Colorado Springs, CO.: Navpress, 1995), 111-145.
2. R.E.D. Clark, *Creation* (London: Tyndale Press, 1946), 20.

3. The Wonders of God's Creation, Moody Institute of Science (Chicago, IL).
4. Gregory Koukl, "Guilt and God," Stand to Reason Commentary. http://www.str.org/free/commentaries/theology/gultngod.htm.
5. Phillip Bishop, "Evidence of God in Human Physiology." http://www.leaderu.com/science/bishop.html
6. Richard Dawkins, *The Blind Watchmaker* (New York: W.W. Norton & Co., 1986), 1.
7. Bishop.
8. Mark 14:61-62; Matthew 26: 63-65; Luke 22:67-70

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"I Can't Recommend Probe Because of Your View of Creation"

Dear brother,

I am a Pastor and also teach Bible at _____ School. I have used some of your materials in my Church and ministry. I have also made Probe.org a resource for my Senior Bible Class. I must confess that I was greatly disappointed recently to see your view related to creation. While I admire your view that six literal days of creation make the most sense I do not at all understand how you allow "overwhelming" scientific evidence to move you from that sensible position. Seems to me that one could make the same argument of the miracles or even

the resurrection to be contrary to "overwhelming" scientific evidence. It would also seem from a scientific point of view the evidence was at one time overwhelming that the earth was flat. While I do not think it is your intention to place science above the Bible this is certainly what is happening among many of our youth today. I am sure in the long run it makes little difference but I can no longer recommend your ministry to my students or my church. Rather than be a "fence sitter" to use your description I would urge you to stand up for the faith once delivered to the saints in the inspired Word rather than the ever changing observations of science.

Pastor,

I regret your decision to deprive your students of our material because of one cautious position on an issue of secondary importance. However, I understand your position. But your response has raised issues and questions I feel I must respond to.

> *While I admire your view that six literal days of creation make the most sense I do not at all understand how you allow "overwhelming" scientific evidence to move you from that sensible position.*

This evidence is something that requires a simple and plain reading of facts that I and the other young earth creationists I have asked, have no answer for.

> *Seems to me that one could make the same argument of the miracles or even the resurrection to be contrary to "overwhelming" scientific evidence.*

Not at all. There is no pertinent scientific evidence to contradict miracles in Scripture. But there is present and currently observable evidence to lead anyone to question the young earth view of a thousands of years old earth and

universe.

> *It would also seem from a scientific point of view the evidence was at one time overwhelming that the earth was flat.*

A spherical earth was recognized from the early Greeks onward. You are victim here of the naturalists' contrived view of the flat earth. The Bible never taught it and even early science never did.

> *While I do not think it is your intention to place science above the Bible this is certainly what is happening among many of our youth today.*

That is certainly not my intent and I fully recognize the strong tendency that you mention. My contention is that it is not absolutely clear that Scripture teaches a young earth.

> *I am sure in the long run it makes little difference but I can no longer recommend your ministry to my students or my church.*

I truly do not understand this position. But I have run across it frequently among my young earth friends. I find it sad and counterproductive.

> *Rather than be a "fence sitter" to use your description I would urge you to stand up for the faith once delivered to the saints in the inspired Word rather than the ever changing observations of science.*

Where in Scripture does it say the earth and universe are only thousands of years old? There are many uncertainties here both scripturally and scientifically, I for one, do not consider myself so informed to conclude which position is correct. There is a resolution, I just don't know what that is. At

least I am not refusing to consider all the evidence at hand. The young earth model now admits that all the supposed radioactive decay necessary to indicate billions of years actually occurred. But since the earth CANNOT be that old the decay must have been accelerated a million times or more. This means incredible heat and radiation that would have annihilated all life on earth, even the life on the ark. But that couldn’t have happened so they appeal to miracle and heat release nowhere indicated in Scripture. That is special pleading which I find disappointing.

Respectfully,

Ray Bohlin, Ph.D.

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