Darwinism: A Teetering House of Cards

Steve Cable examines four areas of recent scientific discovery that undermine evolution.

The Origin of Life: A Mystery

Confidence in Darwinism erodes as new discoveries fail to produce supporting evidence. Three books released in 2017,

- *House of Cards* by journalist Tom Bethel
- *Zombie Science* by biologist Jonathan Wells
- *Undeniable* by biologist Douglas Axe

address areas where Darwin's grand idea is weaker now than 150 years ago. As Bethel states, "Today, it more closely resembles a house of cards, built out of flimsy icons rather than hard evidence, and liable to blow away in the slightest breeze."{1} It is not just critics who recognize this weakening. In 2016, the Royal Society in London convened a meeting to discuss "calls for revision of the standard theory of evolution."{2}

Four areas where Darwin hoped future work would support his theory will be examined. The first area is the origin of reproducing beings.

Darwin only hoped that life may have originated in a "warm little pond." But as one scientist states, "The origin-of-life field is a failure—we still do not have even a plausible coherent model, let alone a validated scenario, for the emergence of life on earth."{3}

Darwin assumed the first reproducing cells were very simple. In truth, the simplest cells are composed of impressively complex machines which could not have arisen directly from

inorganic components. But there are no known simpler life forms. As Michael Behe commented, “The cell’s known complexity has increased immeasurably in recent years, and points ever more insistently to an intelligent designer as its cause.”{4}

The probability of even one of the amino acids necessary for life appearing by random mutations is effectively zero even given billions of years. As Doug Axe writes, “(Examining how) accidental evolutionary processes are supposed to have invented enzymes without insight, we consistently find these proposals to be implausible.”{5}

Another professor states, “Those who think scientists understand the issues of prebiotic chemistry are wholly misinformed. Nobody understands them. . . . The basis upon which we . . . are relying is so shaky we must openly state the situation for what it is: a mystery.”{6}

Facing insurmountable odds against life appearing, some materialists propose an infinite number of parallel universes.{7} With infinite chances, even the most unlikely events could occur. But, as Axe points out, “The biological inventions that surround us (are) fantastically improbable, with evolution explaining none and the multiverse hypothesis explaining only those absolutely necessary for wondering to be possible, . . . this hypothesis fails to explain what we see.”{8}

Even after resorting to unobservable fantasy situations, the challenges presented by the origins of life cannot be overcome. A Darwinian model begins with a self-replicating life form. Currently, this appears to be a hill that no one knows how to climb.

An Example of Macro-evolution: Still Searching

Darwin’s theory is dependent upon the unobserved concept of

macro-evolution, i.e. intergenerational differences accumulating into different species over time. Darwin believed his magic wand of natural selection could direct this process toward increasingly complex beings. Has further research confirmed his belief?

Let's begin with fossil evidence.

The number of fossils studied has blossomed over the last 150 years. All the types of species which exist today appear in the fossil record over a relatively short period of time.{9} And, in most cases, with no transitional forms between them undermining Darwin's theory. As science historian Stephen Meyer concludes, "As more . . . fossils are discovered (failing) to document the great array of intermediate forms, it grows ever more improbable that their absence is an artifact of either incomplete sampling or preservation."{10}

And evolution proponent Stephen Gould wrote, "The extreme rarity of transitional forms in the fossil record persists as the trade secret of paleontology. The evolutionary trees . . . have data only at the tips and nodes of their branches; the rest is inference."{11} *Nature* editor Henry Gee put it this way: "To take a line of fossils and claim that they represent a lineage is not a scientific hypothesis that can be tested, but an assertion that carries the same validity as a bedtime story."{12}

Cleary, the fossil record challenges rather than supports conventional evolutionary theory.

Let's continue by looking at experimental evidence.

Perhaps someone has recreated macro-evolution in the lab. Studies of fast replicating populations have shown no ability to accumulate multiple changes. Attempts to create macro-evolution in fruit flies, bacteria and viruses concluded "Neither in nature nor under experimental conditions have any substantial effects ever been obtained through the systematic

accumulation of micro-mutations."{13}

Bethel points out, "The scientific evidence for evolution is not only weaker than is generally supposed, but as new discoveries have been made . . . , the reasons for accepting the theory have diminished rather than increased."{14}

Yet biology departments still spout their unfounded belief in the "magic wand" ability to produce an unimaginable array of advanced creatures in what "amounts to the triumph of ideology over science." Even some materialists see through this charade. One geneticist at Harvard wrote, "If scientists are going to use logically unbeatable theories about the world, they might as well give up natural science and take up religion."{15}

"Darwin might well have been dismayed (at) the meager evidence for natural selection, assembled over many years. . . . It is worth bearing in mind how feeble this evidence is any time someone tells you that Darwinism is a fact."{16}

The Challenge of Irreducible Complexity

Darwin wrote his theory would "absolutely break down" if an organ could not be formed by "numerous, successive, slight modifications."{17} Have such organs been found? Irreducible complexity and functional coherence say yes.

Irreducible complexity means that some known functions require multiple parts that have no purpose without the other parts. For a Darwinian process to create these functions would require useless mutations to be indefinitely maintained until combined with other useless mutations. Michael Behe's analysis has shown the 4 billion years of the earth's existence are not sufficient for such complex functions to be created by random mutations.

Even if an improbable series of events occurred allowing **one** of these complex forms to arise through a set of random

mutations, it would need to happen thousands, if not millions, of times to produce our complex life forms.

In *Undeniable*, Axe introduces "functional coherence," defined as "The hierarchical arrangement of parts needed for anything to produce a high-level function—each part contributing in a coordinated way to the whole." Axe examines the role of functional coherence as a microscopic level and concludes, "The fact that mastery . . . of protein design is completely beyond the reach of blind evolution is . . . evolution's undoing. . . . The evolutionary story is . . . something much less plausible than hitting an atomic dot on a universe-size sphere over and over in succession by blindly dropping subatomic pins."{18}

In *Zombie Science*, Jonathan Wells considers the number of irreducibly complex subsystems required to evolve fully aquatic whales. These features include flukes with specialized muscles, blowholes with elastic tissues and specialized muscles, internal testicles with a countercurrent heat exchange system, specialized features for nursing, and many others. For Darwinism, these changes are insurmountably large. Whales certainly appear to be the product of design, not unguided evolution.

He also points to advanced optical systems. The process by which light detection becomes an intelligent signal to the brain is irreducibly complex. Two scientists wrote, "the prototypical eye. . . cannot be explained by selection, because selection can drive evolution only when the eye can function at least to a small extent."{19} These scientists determined the eye was irreducibly complex and could not be developed by natural selection.

Richard Lewontin, a committed materialist, does not believe natural selection can explain complex life forms. He cannot conceive of any gradual set of useful incremental changes resulting in a flying being. Unless a small change gives an

advantage, “the change won’t be selected for, and obviously, a little bit of wing doesn’t do any good.”{20}

So we can agree with Darwin on this issue: his theory “absolutely breaks down.”

DNA and Molecular Science Muddy the Scenario

Has uncovering the role of DNA filled the gaping holes in Darwinism or created more?

A species’s DNA sequence, we are told, contains all the information needed to create new members. But Douglas Axe states, “(We) would be shocked to know the . . . state of ignorance with respect to DNA. The view that most aspects of living things can be attributed neatly to specific genes has been known . . . to be FALSE for a long time.”{21}

The higher-level components making up a species are not entirely specified by its DNA. As Wells explains, “After DNA sequences are transcribed into RNAs, many RNAs are modified so they do not match the original transcript. . . . (changing) over time according to the needs of the organism.” The claim that “DNA makes RNA makes protein” is false.”{22}

Creating new complex functions requires multiple changes in the DNA sequence AND in other elements making the chance of random mutations creating new species untenable.

The original conflicting “trees of life” were created examining the morphology, i.e. the structures of species. These trees suggest different major nodes but almost no transitional forms. Can DNA analysis help? Research has shown that groupings based on morphology are not supported by DNA analysis. As Wells notes, these conflicts “are a major headache for evolutionary biologists.”{23}

This disconnect from recent gene research is not limited to a

few cases. As reported in 2012, “incongruence between (trees) derived from morphology . . . , and . . . trees based on different subsets of molecular sequences has become pervasive.”{24}

But DNA analysis alone has a great degree of uncertainty. In one study looking at fifty genes from seventeen animal groups, multiple conflicting ideas on the evolutionary relationship between the animal groups were proposed.{25} All had seemingly absolute support from the DNA evidence, but all could not be true.

Originally scientists thought DNA was primarily junk sequences not contributing to the characteristics of a species. This junk represented functions which were replaced or had no current usefulness. As Francis Crick, one of the discoverers of DNA’s structure, said, “The possible existence of such selfish DNA is exactly what might be expected from the theory of natural selection.”{26}

But recent research shows at least eighty percent of the human genome contributes. As Wells reports, “The evidence demonstrates that most of our DNA is transcribed into RNA and that many of those RNAs have biological functions. The idea that most of our DNA is junk, . . . is dead.”{27}

The facts uncovered about the functioning of DNA and other elements in passing on characteristics to the next generation appear to make more holes in evolutionary theory.

A Philosophy Props Up Its Poster Child

Recent, scientific insights have weakened Darwin’s theory. Yet many are unwilling to discuss its weakness. Why this reluctance? It falls into two camps: 1) a commitment to materialism and 2) a desire for academic acceptance. Materialism is a religious viewpoint where everything has a natural explanation. A spiritual component or events resulting

from an outside force are rejected. Science is not materialism. Science attempts to identify and quantify the forces that make the universe. A materialist scientist adds a religious restriction: only natural forces can be considered.

Bethel states, "Although Darwinism has been promoted as science, its unstated role has been to prop up the philosophy of materialism and atheism."

Wells suggests, "Priority is given to proposing and defending materialistic explanations rather than following the evidence wherever it leads. This is materialistic philosophy masquerading as empirical science, . . . zombie science."{28}

Atheist Colin Patterson offers an honest view regarding the theory of evolution as "often unnecessary" in biology. Nevertheless, it was (taught as) "the unified field theory of biology," holding the whole subject together. Once something has that status it becomes like religion."{29}

Until they have a better theory, they will stand behind it rather than consider alternatives. They fear any uncertainty will lead to questioning other aspects of materialism, such as that free will and love for others are simply a façade promoted by natural selection.

Bethel points out, "If our minds are . . . accidental products of a blind process, what reason do we have for accepting materialist claims as true?"{30} After all, our minds are selected to improve our survivability, not to discern what is true.

Many scientists are not die-hard materialists. They believe there may be a spiritual aspect of our existence. Yet they promote the materialistic view. For most, this inconsistent approach is a reaction to the threat of censure from the establishment.

Axe claims, "The religious agenda is the enemy that threatens

science. . . . Everything that opposes the institutionalized agenda is labeled 'anti-science.'"{31}

The same arguments used against intelligent design apply more accurately to Darwinism. Bethel states, "(Some) have said that design can't be measured and therefore it is a religious belief. . . . They might also have said the macro-evolution has not yet been measured, or so much as observed."{32}

In this review, we have seen

1. No materialistic concept for life's origin
2. Little evidence f transitional life forms
3. Strong evidence complex functions could not arise through random changes
4. DNA playing havoc with the basic tenets of Darwinism.

Now we wait for the façade raised by supporters of a flawed concept to collapse.

Notes

1. Tom Bethel, *Darwin's House of Cards: A Journalist's Odyssey Through the Darwin Debates*, Discovery Institute Press, 2017, page 20.
2. Ibid, page 20.
3. Eugene V. Loonin, *The Logic of Chance: The Nature and Origin of Biological Evolution*, FT Press, 2011, page 391.
4. See Behe, back cover comment for Thomas E. Woodward and James P. Gills, *The Mysterious Epigenome* (Grand Rapids, MI: Kregel Publications, 2012).
5. Douglas Axe, *Undeniable: How Biology Confirms Our Intuition That Life Is Designed*, HarperOne, New York, 2016, page 63.
6. James Tour, "Animadversions of a synthetic chemist," *Inference* 2:2, May 19, 2016.
7. Axe, page 227.
8. Axe, page 230.
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10. Stephen Meyer, *Darwin's Doubt*, New York, Harper Collins,

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11. Gould, *The Panda's Thumb*, page 181.
12. Henry Gee, *In Search of Deep Time: Beyond the Fossil Record to a New History of Life*, New York: The Free Press, 1999, p. 32, 113-117.
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15. Richard Lewontin, "Testing the Theory of Natural Selection," *Nature* 236 no. 5343, p. 181-182.
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18. Axe, page 184.
19. Gehring and Ikeo, "Pax6: mastering eye morphogenesis and eye evolution," *Trends in Genetics* 15, 1999, 376.
20. James Schwartz, "Oh My Darwin!: Who's the Fittest Evolutionary Thinker of All?", *Lingua Franca* 9, no. 8 (1999).
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22. Wells, page 90.
23. Wells, page .
24. Liliana Davalos, Andrea Cirranello, Jonathan Geisler, and Nancy Simmons, "Understanding phylogenetic incongruence: Lessons from phyllostomid bats," *Biological Reviews of the Cambridge Philosophical Society* 87, 2012.
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26. Francis Crick, *What Mad Pursuit: A Personal View of Scientific Discovery*, New York, Basic Books, 1988, page 147.
27. Wells, page 128.
28. Wells, page 17.
29. Bethel, page 149.
30. Bethel, page 174.
31. Axe, page 54.
32. Bethel, page 161.

Lifting the Spell

Steve Cable critically considers atheist Daniel Dennett's book Breaking the Spell *to gain a better understanding of the contrast between the "bright" perspective and a biblical perspective.*

Blinded by the "Bright"

Is your belief in God purely the result of natural evolutionary forces? Has Christianity evolved over the centuries to dupe you into belief for its own survival? This proposition may insult your faith, your intelligence, and your self worth. However, it is the central theme of a recent book by Daniel Dennett entitled *Breaking the Spell: Religion as a Natural Phenomenon.*{1}

Philosopher Daniel Dennett is best known for his 1995 book, *Darwin's Dangerous Idea*, and his July 2003 op-ed entitled "The Bright Stuff." Dennett is a self proclaimed "bright." According to him,

> A bright is a person with a naturalist as opposed to a supernaturalist worldview. We brights don't believe in ghosts or elves or the Easter Bunny—or God. . . . Don't confuse the noun with the adjective: "I'm a bright" is not a boast but a proud avowal of an inquisitive worldview.{2}

I am relieved he is not boasting, but my English teacher would say that "a proud avowal" is a good definition of a boast. In any case, Dennett is a proud proponent of a naturalist worldview.

The book's premise is that religion is a powerful, dangerous

force in need of rigorous study, using the tools of modern evolutionary science. By understanding the natural forces that imbue religion with so much power, perhaps an enlightened world can neutralize religion while retaining the positive benefits, if any. Our hero, Dennett, has ventured into the sorcerer's den of theologians, ministers, and philosophers to break the spell holding us prisoner. He states, "The spell that I say must be broken is the taboo against a forthright, scientific, no-holds-barred investigation of religion as one natural phenomenon among many."{3}

Dennett lobbies for a truly scientific (meaning atheistic) study of the origins and mechanisms of religion. According to Dennett, we had better understand religion before it destroys us. In today's dangerous world, that may not seem to be such a bad sentiment. Romans chapter 1 tells us that religions not based on God's revealed truth are natural phenomenon because they "worship the creature rather than the creator."{4} However, we should examine the implications of his so-called scientific study before biting into the apple with him.

Critically considering some themes from Dennett's book may help us gain a better understanding of the contrast between the "bright" perspective and a biblical perspective. By examining an atheist's misconceptions, we may discover areas where we have unintentionally adopted a "bright" perspective rather than a biblical worldview. Thoughtfully considering the relationship between Christianity and other religions can better prepare us to defend the hope that is in us.

A Bright's View of Religion

What is religion? Dennett begins by defining religion as "social systems whose participants avow belief in a supernatural agent or agents whose approval is to be sought."{5} Later he adds that "religion . . . invokes gods who are effective agents in real time and who play a central

role in the way participants think about what they ought to do."{6}

Defined in this way, religion is all about groups of people seeking approval of supernatural agents to obtain real time benefits. He also detects an appearance of design, calling religion "a finely tuned amalgam of brilliant plays and strategies capable of holding people enthralled and loyal for their entire lives."{7}

You and I are probably not yearning for a social system or an "amalgam of brilliant strategies." We want an eternal relationship with a real, living God. These definitions are why we sometimes say, "Christianity is not a religion, it is a relationship."

Dennett wants to completely knock the wind out of your sails by stating "that religion is natural as opposed to supernatural, that it is a human phenomenon composed of events, organisms, objects, . . . and the like that all obey the laws of physics or biology, and hence do not involve miracles."{8} Elsewhere he says that "I feel a moral imperative to spread . . . evolution, but evolution is not my religion. I don't have a religion."{9}

For a bright, science does not follow the evidence wherever it leads, but assumes natural explanations exist for every experience. Thus, he proposes that we should study religion by assuming that its foundation is false. That is like playing tennis with your feet tied together—you can never get to where you need to be to return the ball.

Let's consider a different definition that better captures the role of religion:

> My religion is what I believe about the origin, nature, and future of man and our relationship to the supernatural. My beliefs about eternity form the foundation for how I view my life on earth.

Using this definition, Dennett's naturalism is his religion. And, your relationship with Jesus Christ resulted from your religion, your belief that Jesus is God.

To be fair, *organized religion* is a social system for practicing and propagating a common set of religious beliefs. Organized religion may result in some of my beliefs being ingrained rather than chosen, but they are still my belief system. Determining which, if any, of these organized religions is teaching the truth about eternity should be of utmost importance to every person.

The Purpose of Religion

What is the purpose of religion? Throughout his book, Dennett suggests that religions are evolutionary artifacts. Thus, any benefits of religion must be realized here and now to be favored by natural selection. From Dennett's perspective, what religious people say they want from religion is "a world at peace, with as little suffering as we can manage, with freedom and justice and well-being and meaning for all."{10}

He also surmises that

> The three favorite purposes . . . for religion are:
> • To comfort us in our suffering and allay our fear of death.
> • To explain things we can't otherwise explain.
> • To encourage group cooperation in the face of trials and enemies.{11}

At first blush, these sound like good purposes, things we all desire (except perhaps the last one for those of us who have been burned by group projects). Some churches even promote these goals as the primary message of Christianity. But how can these purposes explain Jesus saying, "In the world you have tribulation, but take courage; I have overcome the world"?{12} Or, Paul saying, "For momentary, light affliction

is producing for us an eternal weight of glory"?{13} Dennett's purposes cannot explain these statements because they are based on a naturalistic worldview where death is the end.

Ultimately, religion is not about this life. It is about the next life. One of my wife's favorite sayings to help in dieting is, "A moment on the lips means a lifetime on the hips." It is this perspective of lasting consequences for our actions that gives religion such power. Whether it is a Buddhist seeking karma, a Muslim seeking paradise, or a Christian seeking crowns in glory, an eternal perspective is a common trait of the devoted.

The essential contrast between religions is not over which can offer the best temporal benefits or produce moral behavior. It is about which one offers the truth about the nature of God, life, and eternity. Salvation occurs when you believe that Jesus is *the* way, *the* truth and *the* life,{14} and you confess Him as Lord.{15} In contrast, eternal separation is the result of rejecting the truth. As Paul tells us, "[they] perish, because they did not receive the love of the truth so as to be saved."{16}

The purpose of religion is to propagate the truth about the important questions that determine our eternal destiny. The most important topic to study is not "How can we get the temporal benefits from religion, while really assuming that there is no eternity?" but instead "How can I determine which religion has the truth about eternity?"

Defending the Bright Religion

In *Breaking the Spell*, Dennett proposes evolutionary science can explain religious beliefs as natural phenomenon. He believes his religion, Darwinism, can make the world better by neutralizing the power of theistic religion. One problem; his religion is not accepted by most Americans. Dennett laments:

> [O]nly about a quarter [of America] understands that evolution is about as well established as the fact that water is H_2O. . . . how, in the face of. . . massive scientific evidence, could so many Americans disbelieve in evolution? It is simple: they have been . . . told that the theory of evolution is false (or at least unproven) by people they trust more than . . . scientists.{17}

Naturally, Dennett argues for his point of view. His argument exhibits three flaws common in many arguments for Darwinism:

1. *Bait and switch definitions*. The Darwinist says, "Fact: Evolution defined as change over time through natural selection occurs. Fact: Darwinism is based on evolution. Conclusion: Darwinism is proven as the explanation for life in this universe." Claiming that Darwinism is proven because evolution occurs is like the over eager detective stating, "Fact: You were in the city on the day of the murder. Fact: The murderer had to be in the city on that day. Conclusion: You are proven to be the murderer." The two facts are correct, but the reasoning is flawed.

2. *Attack the skeptics, not the evidence*. Dennett states that "there are no reputable scientists who claim (that Darwinism is unproven). Not a one. There are plenty of frauds and charlatans, though."{18} So, anyone who doubts is a fraud regardless of their credentials. His assertion is laughable when one realizes over seven hundred scientists with impressive credentials have signed a statement expressing their skepticism of Darwinism.{19} When you don't have an answer for the evidence, your only recourse it to attack the witness.

3. *Declare yourself the winner*. Assume Darwinism is true and use that assumption to refute other theories. Dennett states, "Intelligent Design proponents . . . have all been carefully and patiently rebutted by conscientious scientists who have taken the trouble to penetrate their smoke screens of

propaganda and expose both their shoddy arguments and their apparently deliberate misrepresentations."{20}

Since defenders of Darwinism attempt to create smoke screens of propaganda, shoddy arguments, and apparently deliberate misrepresentations, it is not surprising that most Americans have not signed up for his religion. However, they control the media and educational systems, so the battle is far from over. Equip yourself to use this conflict to share the truth by checking out Probe's material, *on evolution and Darwinism*, at Probe.org.

Toxic Tolerance

In *Breaking the Spell*, Dennett assures us that atheism is the best course, but he may be willing to tolerate other religions if it can be shown they produce some benefits. He lists three main options among those who call themselves religious but vigorously advocate tolerance:

1. *False humility*. "The time is not ripe for candid declarations of religious superiority, . . . let sleeping dogs lie in hopes that those of other faiths can gently be brought around over the centuries."{21}

2. *Religious equality*. "It really doesn't matter which religion you swear allegiance to, as long as you have some religion."{22}

3. *Benign neglect*. "Religion . . . really doesn't do any good and is simply an empty historical legacy we can afford to maintain until it quietly extinguishes itself (in) the future."{23}

How does your faith fit into his list of viable options? If you believe your religion is true, none of these options makes sense. How can you "let sleeping dogs lie" or say "it doesn't really matter" when you have good news of eternal

significance? Moreover, if your religion is "simply an empty historical legacy," don't put up with it any longer. Join with Paul in saying, "If we have hoped in Christ in this life only, we are of all men most to be pitied."{24}

Dennett's tolerance options assume that religions claiming revealed truth cannot coexist without leading to conflict and suffering. To the contrary, religious wars are the result of the selfish ambition of men rather than the conflict between competing truth claims. Jesus gave us the model of authentic religious tolerance when he said, "My kingdom is not of this world. If my kingdom were of this world, my servants would be fighting."{25} Christianity is not about physical or political conquest. It is about redeeming people from slavery to freedom, from death to eternal life.

Truth is not threatened when competing worldviews are able to enthusiastically promote their beliefs. When each person is free to seek the truth and make truth choices without fear of reprisals or coercion, the gospel can flourish. Eternity, not religious wars or religious leaders, will eventually be the judge of what is truth. In the end, truth is not determined by the majority, but by reality.

One thing we know to be true is that "God does not desire any to perish."{26} Consequently, we should not accept any version of tolerance which mutes proclaiming the good news.

Dennett wants to "break the spell" against studying religion as a natural phenomenon. Instead, let's join together in lifting the spell of naturalism by proclaiming the truth that Jesus Christ is indeed our Creator and Lord.

Notes

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4. Romans 1:25. (All Scripture references are taken from the New American Standard Bible, update version.)
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6. Ibid., 11.
7. Ibid., 154.
8. Ibid., 25.
9. Ibid., 268.
10. Ibid., 17.
11. Ibid., 103.
12. John 16:33.
13. 2 Cor. 4:17.
14. John 14:6.
15. Romans 10:9-10.
16. 2 Thess 2:10-12.
17. Ibid., 59.
18. Ibid., 61.
19. www.dissentfromdarwin.org.
20. Ibid., 61.
21. Ibid., 290.
22. Ibid., 290.
23. Ibid., 290.
24. 1 Corinthians 15:19.
25. John 18:36.
26. 1 Timothy 2:3.

The Causes of War

Meic Pearse's book The Gods of War gives great insight into the charge that religion is the cause of most war. History shows this is not true: the cause of most war is the sinful

human heart, even when religion is invoked as a reason.

The Accusation

Sam Harris, the popular author and atheist, says that "for everyone with eyes to see, there can be no doubt that religious faith remains a perpetual source of human conflict."{1} Writing for the Freedom from Religion Foundation, fellow atheist Richard Dawkins adds, "Only the willfully blind could fail to implicate the divisive force of religion in most, if not all, of the violent enmities in the world today."{2} Speaking more bluntly, one British government official has said, "theocrats, religious leaders or fanatics citing holy texts . . . constitutes the greatest threat to world peace today."{3}

War is the ultimate act of intolerance, and since intolerance is seen as the only unforgivable sin in our postmodern times, it's not surprising that those hostile to religion would charge people holding religious convictions with the guilt for causing war.

This view is held by many others, not just despisers of religion. A 2006 opinion poll taken in Great Britain found that 82% of adults "see religion as a cause of division and tension between people. Only 16% disagree."{4}

To be honest, religion has been, and remains, a source of conflict in the world; but to what degree? Is it the only source of war, as its critics argue? Is it even the primary source? And if we agree that religion is a source of war, how do we define what qualifies as a religion? This leads to another question. Are all religions equally responsible for war or are some more prone to instigate conflict than others? Once these issues are decided, we are still left with one of the most difficult questions: How does a religious person, especially a Christian, respond to the question of war?

When confronted with the accusation that religion, and more importantly, Christianity, has been the central cause of war down through history, most Christians respond by ceding the point. We will argue that the issue is far too complex to merely blame war on religious strife. A more nuanced response is needed. Religion is sometimes the direct cause of war, but other times it plays a more ambiguous role. It can also be argued, as Karl Marx did, that religion can actually restrain the warring instinct.

In his provocative new book, *The Gods of War*, Meic Pearse argues that modern atheists greatly overstate their case regarding religion as a cause for war, and that all religions are not equal when it comes to the tendency to resort to violence. He believes that the greatest source for conflict in the world today is the universalizing tendencies of modern secular nations that are pressing their materialism and moral relativism on more traditional cultures.

The Connection Between Religion and War

When someone suggests a simple answer to something as complex as war, it probably is *too* simple. History is usually more complicated than we would like it to be.

How then should Christians respond when someone claims religion is the cause of all wars? First, we must admit that religion can be and sometimes is the cause of war. Although it can be difficult to separate political, cultural, and religious motivations, there have been instances when men went off to war specifically because they believed that God wanted them to. That being said, in the last one hundred years the modern era with its secular ideologies has generated death and destruction on a scale never seen before in history. Not during the Crusades, the Inquisition, nor even during the Thirty Years War in Europe.

The total warfare of the twentieth century combined powerful advances in war-making technologies with highly structured societies to devastating effect. WWI cost close to eight and a half million lives. The more geographically limited Russian Civil War that followed the Bolshevik Revolution in 1917 resulted in nine million deaths. WWII cost sixty million deaths, as well as the destruction of whole cities by fire bombing and nuclear devices.

Both Nazi fascism and communism rejected the Christian belief that humanity holds a unique role in creation and replaced it with the necessity of conflict and strife. By the end of the nineteenth century, Darwin's ideas regarding natural selection and survival of the fittest had begun to affect philosophy, the social sciences, and even theology. Darwin had left us with a brutal universe devoid of meaning. The communist and fascist worldviews were both firmly grounded in Darwin's universe.

Hitler's obsession with violence is well known, but the communists were just as vocal about their attachment to it. Russian revolution leader Leon Trotsky wrote, "We must put an end once and for all to the papist-Quaker babble about the sanctity of human life." Lenin argued that the socialist state was to be "a system of organized violence against the bourgeoisie" or middle class. While critics of the Russian Tsar and his ties with the Orthodox Russian Church could point to examples of oppression and cruelty, one historian has noted that when the communists had come to power "more prisoners were shot at just one soviet camp in a single year than had been executed by the tsars during the entire nineteenth century."{5}

So, religion is not the primary cause of warfare and cruelty, at least not during the last one hundred years. But what about wars fought in the more distant past; surely most of them were religiously motivated. Not really.

Meic Pearce argues that “most wars, even before the rise of twentieth century’s secularist creeds, owed little or nothing to religious causation.”{6} Considering the great empires of antiquity, Pearce writes that “neither the Persians nor the Greeks nor the Romans fought either to protect or to advance the worship of their gods.”{7} Far more ordinary motives were involved like the desire for booty, the extension of the empire, glory in battle, and the desire to create buffer zones with their enemies. Each of these empires had their gods which would be called upon for aid in battle, but the primary cause of these military endeavors was not the advancement of religious beliefs.

Invasions by the Goths, Huns, Franks, and others against the Roman Empire, attacks by the Vikings in the North and the Mongols in Asia were motivated by material gain as well and not religious belief. The fourteenth century conquests of Timur Leng (or Tamerlane) in the Middle East and India resulted in the deaths of millions. He was a Muslim, but he conquered Muslim and pagan alike. At one point he had seventy thousand Muslims beheaded in Baghdad so that towers could be built with their skulls.{8}

More recently, the Hundred Years War between the French and English, the American Revolution, and the Napoleonic Wars were secular conflicts. Religious beliefs might have been used to wrap the conflicts with a Christian veneer, but promoting the cause of Christ was not at the heart of the conflicts.

Pearce argues that down through the millennia, humanity has gone to war for two main reasons: greed expressed by the competition for limited resources, and the need for security from other predatory cultures. The use of religion as a legitimating device for conflict has become a recent trend as it became less likely that a single individual could take a country to war without the broad support of the population.

It can be argued that religion was, without ambiguity, at the

center of armed conflict during two periods in history. The first was during the birth and expansion of Islam which resulted in an ongoing struggle with Christianity, including the Crusades during the Middle Ages. The second was the result of the Reformation in Europe and was fought between Protestant and Catholic states. Even here, political motivations were part of the blend of causes that resulted in armed conflict.

Islam and Christianity

Do all religions have the same propensity to cause war? The two world religions with the largest followings are Christianity and Islam. While it is true that people have used both belief systems to justify armed conflict, are they equally likely to cause war? Do their founder's teachings, their holy books, and examples from the earliest believers encourage their followers to do violence against others?

Although Christianity has been used to justify forced conversions and violence against unbelievers, the connection between what Christianity actually teaches and these acts of violence has been ambiguous at best and often contradictory. Nowhere in the New Testament are Christians told to use violence to further the Kingdom of God. Our model is Christ who is the perfect picture of humility and servant leadership, the one who came to lay down his life for others. Meic Pearce writes, "For the first three centuries of its history, Christianity was spread exclusively by persuasion and was persecuted for its pains, initially by the Jews but later, from 63, by the Romans."{9} It wasn't until Christianity became the de facto state religion of the Roman Empire around AD 400 that others were persecuted in the name of Christ.

The history of Islam is quite different. Warfare and conflict are found at its very beginning and is embodied in Muhammad's actions and words. Islam was initially spread through military conquest and maintained by threat of violence. As one pair of

scholars puts it, there can be no doubt that “Islam was cradled in violence, and that Muhammad himself, through the twenty-six or twenty-seven raids in which he personally participated, came to serve for some Muslims as a role model for violence.”{10}

Much evidence can be corralled to make this point. Muhammad himself spoke of the necessity of warfare on behalf of Allah. He said to his followers, “I was ordered to fight all men until they say, ‘There is no God but Allah.'”{11} Prior to conquering Mecca, he supported his small band of believers by raiding caravans and sharing the booty. Soon after Muhammad’s death, a war broke out over the future of the religion. Three civil wars were fought between Muslims during the first fifty years of the religion’s history, and three of the four leaders of Islam after Muhammad were assassinated by other Muslims. The Quran and Hadith, the two most important writings in Islam, make explicit the expectation that all Muslim men will fight to defend the faith. Perhaps the most telling aspect of Islamic belief is that there is no separation between religious and political authority in the Islamic world. A threat to one is considered a threat to the other and almost guarantees religiously motivated warfare.

Pacifism or Just Wars?

Although most Christians advocate either pacifism or a “just war” view when it comes to warfare and violence, Pearse argues that there are difficulties with both. Pacifism works at a personal level, but “there cannot be a pacifist state, merely a state that depends on others possessed of more force or of the willingness to use it.”{12} Some pacifists argue that humans are basically good and that violence stems from misunderstandings or social injustice. This is hardly a traditional Christian teaching. Pearse argues that “a repudiation of force in all circumstances . . . is an abandonment of victims—real people—to their fate.”{13}

Just war theory as advocated by Augustine in the early fifth century teaches that war is moral if it is fought for a just cause and carried out in a just fashion. A just cause bars wars of aggression or revenge, and is fought only as a last resort. It also must have a reasonable chance of success and be fought under the direction of a ruler in an attitude of love for the enemy. It seeks to reestablish peace, not total destruction of the vanquished, and to insure that noncombatants are not targeted.

However, even WWII, what many believe to be our most justified use of force, failed to measure up to this standard. Massive air raids against civilian populations by the Allies were just one of many violations that disallow its qualification as a just war. As Pearse argues, "war has an appalling dynamic of its own: it drags down the participants . . . into ever more savage actions."{14}

How then are Christians to think about war and violence? Let's consider two examples. In the face of much violent opposition in his battle for social justice, Martin Luther King said, "be ye assured that we will wear you down by our capacity to suffer. . . . We shall so appeal to your heart and conscience that we shall win *you* in the process."{15} Reform was achieved, although at the cost of his life, and many hearts and minds have been changed.

However, another martyr, German minister Dietrich Bonhoeffer, rejected pacifism and chose to participate in an attempt on the life of Adolf Hitler, mainly because he despaired that an appeal to the hearts and minds of the Nazis would be effective.

Neither King nor Bonhoeffer were killed specifically for their faith. They were killed for defending the weak from slaughter, as Pearse puts it. Perhaps Pearse is correct when he argues, "If Christians can . . . legitimately fight . . . , then that fighting clearly cannot be for the faith. It can only be for

secular causes . . . faith in Christ is something for which we can only die—not kill. . . . To fight under the delusion that one is thereby promoting Christianity is to lose sight of what Christianity is."{16}

Notes

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4. Ibid., 14.
5. Ibid., 31.
6. Ibid., 53.
7. Ibid., 54.
8. Ibid., 55.
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The Impotence of Darwinism: A Christian Scientist Looks at

the Evidence

Dr. Ray Bohlin looks at some of the tenets of Darwinism and finds them lacking support in the real world. Speaking from a biblical worldview perspective, he finds the gaps and inconsistencies in current Darwinian thinking should demand that different theories be examined and evaluated.

Darwinism, Design, and Illusions

Darwinian evolution has been described as a universal acid that eats through everything it touches.{1} What Daniel Dennett meant was that evolution as an idea, what he called "Darwin's dangerous idea," is an all-encompassing worldview. Darwinism forms the basis of the way many people think and act. It touches everything.

What Darwin proposed in 1859 was simply that all organisms are related by common descent. This process of descent or evolution was carried out by natural selection acting on variation found in populations. There was no guidance, no purpose, and no design in nature. The modern Neo-Darwinian variety of evolution identifies the source of variation as genetic mutation, changes in the DNA structure of organisms. Therefore, evolution is described as the common descent of all organisms by mutation and natural selection, and is assumed to be able to explain everything we see in the biological realm.

This explanatory power is what Dennett refers to as "Darwin's dangerous idea." Darwinism assumes there is no plan or purpose to life. Therefore, everything we see in the life history of an organism, including human beings, derives in some way from

evolution, meaning mutation and natural selection. This includes our ways of thinking and the ways we behave. Even religion is said to have arisen as a survival mechanism to promote group unity that aids individual survival and reproduction.

Since evolution has become the cornerstone of the dominant worldview of our time—scientific naturalism—those who hold to it would be expected to take notice when somebody says it's wrong! A growing number of scientists and philosophers are saying with greater confidence that Darwinism, as a mode of explaining all of life, is failing and failing badly. Much of the criticism can be found in the cornerstone of evolution, mutation and natural selection and the evidence for its pervasiveness in natural history. One of the biggest stumbling blocks is evolution's repudiation of any form of design or purpose in nature. Even the staunch Darwinist and evolutionary naturalist, Britain's Richard Dawkins, admits, "Biology is the study of complicated things that give the appearance of having been designed for a purpose."{2}

No one denies that biological structures and organisms look designed; the argument is over what has caused this design. Is it due to a natural process that gives the appearance of design as Dawkins believes? Or is it actually designed with true purpose woven into the true fabric of life? Darwinian evolution claims to have the explanatory power and the evidence to fully explain life's apparent design. Let's explore the evidence.

The Misuse of Artificial Selection

It is assumed by most that evolution makes possible almost unlimited biological change. However, a few simple observations will tell us that there are indeed limits to change. Certainly the ubiquitous presence of convergence suggests that biological change is not limitless since certain

solutions are arrived at again and again. There appear to be only so many ways that organisms can propel themselves: through water, over land or through the air. The wings of insects, birds and bats, though not ancestrally related, all show certain design similarities. At the very least, various physical parameters constrain biological change and adaptation. So there are certainly physical constraints, but what about biological constraints?

Darwin relied heavily on his analogy to *artificial* selection as evidence of *natural* selection. Darwin became a skilled breeder of pigeons, and he clearly recognized that just about any identifiable trait could be accentuated or diminished, whether the color scheme of feathers, length of the tail, or size of the bird itself. Darwin reasoned that natural selection could accomplish the same thing. It would just need more time.

But artificial selection has proven just the opposite. For essentially every trait, although it is usually harboring some variability, there has always been a limit. Whether the organisms or selected traits are roses, dogs, pigeons, horses, cattle, protein content in corn, or the sugar content in beets, selection is certainly possible. But all selected qualities eventually fizzle out. Chickens don't produce cylindrical eggs. We can't produce a plum the size of a pea or a grapefruit. There are limits to how far we can go. Some people grow as tall as seven feet, and some grow no taller than three; but none are over twelve feet or under two. There are limits to change.

But perhaps the most telling argument against the usefulness of artificial selection as a model for natural selection is the actual process of selection. Although Darwin called it *artificial* selection, a better term would have been *intentional* selection. The phrase "artificial selection" makes it sound simple and undirected. Yet every breeder, whether of plants or animals is always looking for something in

particular. The selection process is always designed to a particular end.

If you want a dog that hunts better, you breed your best hunters hoping to accentuate the trait. If you desire roses of a particular color, you choose roses of similar color hoping to arrive at the desired shade. In other words, you plan and manipulate the process. Natural selection can do no such thing. Natural selection can only rely on what variation comes along. Trying to compare a directed to an undirected process offers no clues at all.

Most evolutionists I share this with usually object that we do have good examples of natural selection to document its reality. Let’s look at a few well-known examples.

The Real Power of Natural Selection

It should have been instructive when we had to wait for the 1950s, almost 100 years after the publication of *Origin of Species*, for a documentable case of natural selection, the famous Peppered Moth (*Biston betularia*). The story begins with the observation that, before the industrial revolution, moth collections of Great Britain contained the peppered variety, a light colored but speckled moth. With the rise of industrial pollution, a dark form or melanic variety became more prevalent. As environmental controls were enacted, pollution levels decreased and the peppered variety made a strong comeback.

It seemed that as pollution increased, the lichens on trees died off and the bark became blackened. The previously camouflaged peppered variety was now conspicuous and the previously conspicuous melanic form was now camouflaged. Birds could more readily see the conspicuous variety and the two forms changed frequency depending on their surrounding conditions. This was natural selection at work.

There were always a few problems with this standard story. What did it really show? First, the melanic form was always in the population, just at very low frequencies. So we start with two varieties of the peppered moth and we still have two forms. The frequencies change but nothing new has been added to the population. Second, we really don't know the genetics of industrial melanism in these moths. We don't have a detailed explanation of how the two forms are generated. And third, in some populations, the frequencies of the two moths changed whether there was a corresponding change in the tree bark or not. The only consistent factor is pollution.{3} The most well-known example of evolution in action reduces to a mere footnote. Regarding this change in the Peppered Moth story, evolutionary biologist Jerry Coyne lamented that "From time to time evolutionists re-examine a classic experimental study and find, to their horror, that it is flawed or downright wrong."{4}

Even Darwin's Finches from the Galapagos Islands off the coast of Ecuador tell us little of large scale evolution. The thirteen species of finches on the Galapagos show subtle variation in the size and shape of their beaks based on the primary food source of the particular species of finch. Jonathan Wiener's *Beak of the Finch*{5} nicely summarizes the decades of work by ornithologists Peter and Rosemary Grant. While the finches do show change over time in response to environmental factors (hence, natural selection), the change is reversible! The ground finches (six species) do interbreed in the wild, and the size and shape of their beaks will vary slightly depending if the year is wet or dry (varying the size seeds produced) and revert back when the conditions reverse. There is no directional change. It is even possible that the thirteen species are more like six to seven species since hybrids form so readily, especially among the ground finches, and survive quite well. Once again, where is the real evolution?

There are many other documented examples of natural selection operating in the wild. But they all show that, while limited change is possible, there are limits to change. No one as far as I know questions the reality of natural selection. The real issue is that examples such as the Peppered Moth and Darwin's Finches tell us nothing about evolution.

Mutations Do Not Produce Real Change

While most evolutionists will acknowledge that there are limits to change, they insist that natural selection is not sufficient without a continual source of variation. In the Neo-Darwinian Synthesis, mutations of all sorts fill that role. These mutations fall into two main categories: mutations to structural genes and mutations to developmental genes. I will define structural genes as those which code for a protein which performs a maintenance, metabolic, support, or specialized function in the cell. Developmental genes influence specific tasks in embryological development, and therefore can change the morphology or actual appearance of an organism.

Most evolutionary studies have focused on mutations in structural genes. But in order for large scale changes to happen, mutations in developmental genes must be explored. Says Scott Gilbert:

> *"To study large changes in evolution, biologists needed to look for changes in the regulatory genes that make the embryo, not just in the structural genes that provide fitness within populations."*{6}

We'll come back to these developmental mutations a little later.

Most examples we have of mutations generating supposed evolutionary change involve structural genes. The most common

example of these kinds of mutations producing significant evolutionary change involves microbial antibiotic resistance. Since the introduction of penicillin during World War II, the use of antibiotics has mushroomed. Much to everyone's surprise, bacteria have the uncanny ability to become resistant to these antibiotics. This has been trumpeted far and wide as real evidence that nature's struggle for existence results in genetic change evolution.

But microbial antibiotic resistance comes in many forms that aren't so dramatic. Sometimes the genetic mutation simply allows the antibiotic to be pumped out of the cell faster than normal or taken into the cell more slowly. Other times the antibiotic is deactivated inside the cell by a closely related enzyme already present. In other cases, the molecule inside the cell that is the target of the antibiotic is ever so slightly modified so the antibiotic no longer affects it. All of these mechanisms occur naturally and the mutations simply intensify an ability the cell already has. No new genetic information is added.{7}

In addition, genetically programmed antibiotic resistance is passed from one bacteria to another by special DNA molecules called plasmids. These are circular pieces of DNA that have only a few genes. Bacteria readily exchange plasmids as a matter of course, even across species lines. Therefore, rarely is a new mutation required when bacteria "become" resistant. They probably received the genes from another bacterium.

Most bacteria also suffer a metabolic cost to achieve antibiotic resistance. That is, they grow more slowly than wild-type bacteria, even when the antibiotic is not present. And we have never observed a bacterium changing from a single-celled organism to a multicellular form by mutation. You just get a slightly different bacterium of the same species. The great French evolutionist Pierre Paul-Grassé, when speaking about the mutations of bacteria 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."*{8}

What I have been describing so far is what is often referred to as microevolution. Evolutionists have basically assumed that the well-documented processes of microevolution eventually produce macroevolutionary changes given enough time. But this has been coming under greater scrutiny lately, even by evolutionists. There appears to be a real discontinuity between microevolution and the kind of change necessary to turn an amoeba-like organism into a fish, even over hundreds of millions of years.

Below is just a quick sampling of comments and musings from the current literature.

> *"One of the oldest problems in evolutionary biology remains largely unsolved. . . . historically, the neo-Darwinian synthesizers stressed the predominance of micromutations in evolution, whereas others noted the similarities between some dramatic mutations and evolutionary transitions to argue for macromutationism."*{9}

> *"A long-standing issue in evolutionary biology is whether the processes observable in extant populations and species (microevolution) are sufficient to account for the larger-scale changes evident over longer periods of life's history (macroevolution)."*{10}

> *"A persistent debate in evolutionary biology is one over the continuity of microevolution and macroevolution whether macroevolutionary trends are governed by the principles of microevolution."*{11}

While each of the above authors does not question evolution directly, they are questioning whether what we have been studying all these years, microevolution, has anything to do with the more important question of what leads to macroevolution. And if microevolution is not the process, then what is?

Natural Selection Does Not Produce New Body Plans

The fundamental question which needs addressing is, How have we come to have sponges, starfish, cockroaches, butterflies, eels, frogs, woodpeckers, and humans from single cell beginnings with no design, purpose or plan? All the above listed organisms have very different body plans. A body plan simply describes how an organism is put together. So can we discover just how all these different body plans can arise by mutation and natural selection? This is a far bigger and more difficult problem than antibiotic resistance, a mere biochemical change. Now we have to consider just how morphological change comes about.

The problem of macroevolution requires developmental mutations. Simply changing a protein here and there won't do it. We somehow have to change how the organism is built. Structural genes tend to have little effect on the development of a body plan. But the genes that control development and ultimately influence the body plan tend to find their expression quite early in development. But this is a problem because the developing embryo is quite sensitive to early developmental mutations. Wallace Arthur wrote:

> *"Those genes that control key early developmental processes are involved in the establishment of the basic body plan. Mutations in these genes will usually be extremely disadvantageous, and it is conceivable that they are always so."{12}*

But these are the mutations needed for altering body plans. However, evolutionists for decades have been studying the wrong mutations. Those dealing with structural genes, microevolution, only deal with how organisms survive as they are, it doesn't tell us how they got to be the way they are. Optiz and Raft note that

> *"The Modern Synthesis is a remarkable achievement. However, starting in the 1970's, many biologists began questioning its adequacy in explaining evolution. . . . Microevolution looks at adaptations that concern only the survival of the fittest, not the arrival of the fittest."{13}*

Wallace Arthur:

> *"In a developmentally explicit approach it is clear that many late changes can not accumulate to give an early one. Thus if taxonomically distant organisms differ right back to their early embryogenesis, as is often the case, the mutations involved in their evolutionary divergence did not involve the same genes as those involved in the typical speciation event."{14}*

To sum up the current dilemma, significant morphological change requires early developmental mutations. But these mutations are nearly universally disadvantageous. And microevolution, despite its presence in textbooks as proof of evolution, actually tells us precious little about the evolutionary process. If these developmental mutations that can offer an actual benefit are so rare, then macroevolution would be expected to be a slow and difficult, yet bumpy process. Indeed, Darwin expected that "As natural selection acts solely by accumulating slight, successive, favorable variations, it can produce no great or sudden modifications; it can only act in short and slow steps."

The origin of body plans is wrapped up in the evidence of

paleontology, the fossils and developmental biology. What does the fossil record have to say about the origin of basic body plans? When we look for fossils indicating Darwin's expected slow gradual process we are greatly disappointed. The Cambrian Explosion continues to mystify and intrigue. The Cambrian Explosion occurred around 543 million years ago according to paleontologists. In the space of just a few million years, nearly all the animal phyla make their first appearance.

> *"The term explosion' should not be taken too literally, but in terms of evolution it is still very dramatic. What it means is rapid diversification of animal life. Rapid' in this case means a few million years, rather than the tens or even hundreds of millions of years that are more typical . . .{15}*

Prior to the Cambrian, (550-485 million years ago), during the Vendian (620-550 million years ago) we find fossil evidence for simple sponges, perhaps some cnidarians and the enigmatic Ediacaran assemblage. For the most part we find only single cell organisms such as bacteria, cyanobacteria, algae, and protozoan. Suddenly, in the Cambrian explosion (545-535 million years ago) we find sponges, cnidarians, platyhelminthes, ctenophores, mollusks, annelids, chordates (even a primitive fish), and echinoderms.

While many animal phyla are not present in the Cambrian, they are mostly phyla of few members and unlikely to be fossilized in these conditions. James Valentine goes further in saying that "The diversity of body plans indicated by combining all of these Early Cambrian remains is very great. Judging from the phylogenetic tree of life, all living phyla (animal) were probably present by the close of the explosion interval."{16} Later Valentine assures us that the fossil record of the explosion period is as good as or better than an average section of the geologic column.{17} So we just can't resort to the notion that the fossil record is just too incomplete.

In the Cambrian Explosion we have the first appearance of most animal body plans. This sudden appearance is without evidence of ancestry in the previous periods. This explosion of body plans requires a quantum increase of biological information. New genetic information and regulation is required.{18} Mutations at the earliest stages of embryological development are required and they must come in almost rapid fire sequence. Some have suggested that perhaps the genetic regulation of body plans was just more flexible, making for more experimentation. But we find some of the same organisms in the strata from China to Canada and throughout the period of the explosion. These organisms do not show evidence of greater flexibility of form.

The type of mutation is definitely a problem, but so is the rate of mutation. Susumo Ohno points out that "it still takes 10 million years to undergo 1% change in DNA base sequences. . . . [The] emergence of nearly all the extant phyla of the Kingdom Animalia within the time span of 6-10 million years can't possibly be explained by mutational divergence of individual gene functions."{19}

Darwinism would also require early similarities between organisms with slow diversification. Phyla should only become recognizable after perhaps hundreds of millions of years of descent with modification. Yet the great diversity appears first with gradual drifting afterward, the opposite of what evolution would predict. Again some suggest that the genetic structure of early organisms was less constrained today, allowing early developmental mutations with less severe results. But there would still be some developmental trajectory that would exist so the selective advantage of the mutation would have to outweigh the disruption of an already established developmental pathway.

But each of these speculations is unobservable and untestable. It's quite possible that developmental constraints may be even more rigid with fewer genes. But even if the constraints were

weaker, then there should be more variability in morphology of species over space and time. But as I said earlier, the Cambrian fauna are easily recognizable from the early Cambrian deposits in China and Greenland to the middle Cambrian deposits of the Burgess Shale. There is no testable or observational basis for hypothesizing less stringent developmental constraints.

This stunning burst of body plans in the early Cambrian and the lack of significant new body plans since the Cambrian indicate a limit to change. Evolutionary developmental biologist Rudolf Raff told *Time* magazine over ten years ago that "There must be limits to change. After all, we've had these same old body plans for half a billion years."{20} Indeed, perhaps these limits to change are far more pervasive and genetically determined than Raff even suspects.

Along the way, functional organisms must form the intermediate forms. But even the functionality of these intermediate organisms transforming from one body plan to another has long puzzled even the most dedicated evolutionists. S. J. Gould, the late Harvard paleontologist, asked,

> *"But how can a series of reasonable intermediates be constructed? . . . The dung-mimicking insect is well protected, but can there be any edge in looking only 5 percent like a turd?"{21}*

With his usual flair, Gould asks a penetrating question. Most have no problem with natural selection taking a nearly completed design and making it just a little bit more effective. Where the trouble really starts is trying to create a whole new design from old parts. Evolution has still not answered this critical question. I fully believe that evolution is incapable of answering this question with anything more than "I think it can." However, unlike the little train that could, it will take far more than willpower

to come up with the evidence.

In this brief discussion I haven't even mentioned the challenges of Michael Behe's irreducible complexity,{22} William Dembski's specified complexity,{23} and a host of other evolutionary problems and difficulties. This truly is a theory in crisis.

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The Effect of Origins on Society

Why Is the Subject of Origins Important?

Every worldview addresses the question, "Where did we come from?" The Christian worldview says that we are a special part

of creation made in the image of God. A materialistic worldview says that we are the product of natural selection and random mutations acting on organisms. The Christian view of origins is called Creation; the materialistic view of origins is called Darwinism. The Christian worldview is based on faith in the creative work of God of the Bible. The materialistic worldview is based on faith in the creative power of natural selection acting on mutations.

There are evidences for and against these worldviews from scientific research being conducted in the areas of intelligent design, evolutionary biology, genetics, mathematics, astronomy, and many other fields. However, people will often confuse the worldview with the scientific evidence. Worldviews are a way of explaining the evidence. For example, we see that during a drought birds with longer beaks are selected over birds with shorter beaks. This is an observation. Saying that this is evidence for natural selection's creative ability to make totally new types of creatures is an extrapolation based on a worldview. Just as there is a right and a wrong interpretation for observations, there are right and wrong worldviews. And one way to test for a worldview is whether or not it is livable.

So does your view of origins affect other areas of life than just science? Yes, these two views of origins have a profound effect on how we value people and how we view personhood and personal responsibility. Using John West's book *Darwin Day in America* as a resource, we will look at how the materialistic worldview has trickled down into areas of society that affect us every day.

West argues in his book that the logical end materialistic worldview leaves nothing for an ethical standard other than to survive. The materialistic worldview says that non-living chemicals came together to make genetic material which then made an organism and that organism evolved until we got human beings. This view claims that man is made from chemicals and

is no more valuable than any other animal. The logical end to this perspective is that everything a man does is a result of his genes and his environment. He therefore has no choices or free will of his own. His actions are the result of natural selection acting on him. This has important consequences for how we deal with crime, personhood, the embryo, the infirmed, and education.

West says, "Darwin helped spark an intellectual revolution that sought to apply materialism to nearly every area of human endeavor. This new, thoroughly 'scientific' materialism affected the entire span of culture, from economics and politics to education and the arts".{1} Darwin published *Origin of Species* one hundred fifty years ago, but it is in the mid-twentieth century that we begin to see how his theory has trickled down into society.

Crime and Responsibility

How does a materialistic worldview affect society? For one thing, a Darwinian view of man has changed our criminal justice system.

How are the courts and science related? In our culture, the scientists are the holders of truth and the courts are the arbiters of law. And while the idea that law coincides with truth is good and even biblical, the idea that scientists, and only scientists, are the ones who dictate truth is a dangerous position. If the pervading worldview in science is materialism, then a materialistic view of man is reflected in the courts.

According to a materialistic worldview, man is the product of his genes and his environment with no real ability to act differently than what his genes and environment would have him do. If this is the case, then how can he be held responsible for his crimes? Why not just blame bad genes or a bad home

life? Often this is what is argued in the courts.

West describes the crux of the problem. In order to provide protection and have an orderly society, the criminal justice system needs to punish wrong behavior. But from a materialistic worldview, there is no moral foundation for individual responsibility. A materialist perspective does not blame the individual but their genes or the way that they were raised (their environment). West outlines a history of criminals getting off in the name of very loose definitions of insanity, and other criminals undergoing treatment instead of punishment.{2} And the treatment, at times, amounts to something closer to coercion or torture.{3} Whether we are talking about being overly lenient by giving criminals excuses or coercing them to treatment, both diminish the value and dignity of the individual as a person.

The Christian view of man is that, although differences in our genetics or our environment may mean that we have different struggles or temptations than others, we are made in God's image. Therefore, just as God treats us with dignity by exacting punishment for our actions, so, too, do we treat people with inherent dignity by exacting punishment and allowing for atonement. The Darwinian view says that we are not responsible because we are a product of our genes, but it also says that we are not redeemable because we will remain flawed.

Our entire criminal justice system is based on the idea that man can be held accountable for his crimes, that he has a choice in what he does. Furthermore, it is based on the inherent dignity that every individual has, so that a wrong done to one individual must result in the wrong-doer being punished. This maintains equal dignity and value in both individuals.{4} However, this system crumbles under a materialistic worldview.

So man is a product of his genes and his environment, a view

which, taken to its logical end, has conflicting and dangerous results for exacting justice in society. Now we turn to how this view of man affects how we treat others that are different from us and how we define "normal."

Personhood

At the beginning of the twentieth century, during the rise of the scientific revolution, the idea of atonement for a guilty crime changed to an idea of fixing a broken machine. Criminals were treated as if they were machines with broken parts, instead of individuals with value and free will, because scientists had supposedly found a materialistic cause for crime. Something in their genetic code went wrong, so many were subjected to some kind of institutionalization or treatment. As John West points out in *Darwin Day in America,* the idea is if science can explain the problem, then science can fix it.{5} One way that scientists attempted to fix this problem was to try to breed out the bad traits. Scientists in the '30s, '40s and '50s reasoned that bad behavior, stupidity, and emotional instability were passed down from parent to child just like physical traits, and the only way to cleanse our society of these ailments was to sterilize those who carry these traits.

It began with criminals being sterilized; then it turned to those who were mentally handicapped; then those who were deemed less intelligent, poor, or unproductive in society were sterilized. In hindsight it is easy to see how this slippery slope happened. One group changes the standards by which we value other groups. No longer is the foundation in the Judeo-Christian concept that all individuals have inherent value, but in the Darwinian concept that some are less valuable than others and deemed less worthy of life than the more "fit" in society. This was the breeding ground for what would become the eugenics movement. [Editor's note: Eugenics is the idea that the human race can be improved by careful selection of

those who mate and produce offspring. The word comes from the Greek word *eugenes*, "well-born, of good stock," from *eu*– "good" + *genos* "birth."]

We saw the logical end of the eugenics movement in Nazi Germany. Darwinism was not necessarily the cause for Nazi Germany, but eugenics was justified with a Darwinian view of man. This is an important picture of how one can promote one's worldview (and one's prejudices) in the name of science. Darwinism allows for race discrimination and even genocide. As West points out, "Historically speaking, the eugenics movement is important because it was one of the first—and most powerful—efforts to use science to expand the power of the state over social matters. Eugenists claimed that their superior scientific knowledge trumped the beliefs of nonscientists, and so they should be allowed to design a truly scientific welfare policy."{6}

Today this attitude is still seen when doctors, lawyers, and family members evaluate individuals based on their physical abilities and their cost to society. Oftentimes individuals are assessed based on their perceived "quality of life." Unfortunately, this usually reflects what the doctor, lawyer, or family member would hate to have happen to themselves than the actual desires of the individual in question. Judging others unworthy of life based on physical features or capabilities ignores the inherent value and dignity God has given man as being made in His image.

The Beginning and End of Life

We have looked at how a society that promotes a materialistic worldview results in a degraded view of personhood. This degraded view includes basing a person's value on how well they physically function and how much they cost society. However, from a Christian view, humans were created with a purpose and in the image of God. They have inherent value

beyond their physical bodies.

How does a Darwinian view of man's origin affect the way we look at the most vulnerable in society—the embryo and the aged or infirmed?

West traces a historical record of the legalization of abortion and demonstrates why we have the debate about embryonic stem cell research today.{7} Darwinism is not the cause of the legalization of abortion and destruction of embryos, but it provided an ideology that allowed people to justify it. It began with a scientist named Haeckel who influenced Darwin. Haeckel discussed how all embryos go through stages of development and how the earliest stages look very similar to each other. In his famous drawings, he shows how a human embryo goes from a small fish-like creature that looks similar to other animal embryos, to a human-looking embryo. He said that the fetus goes through a mini version of evolutionary development.{8}

What conclusions were drawn from this? If the fetus is no more than a fish, then it is as ethical to discard it as it would be to discard a fish. The only problem with this idea is that it is now well-documented that Haeckel's drawings were faked, and the similarities were more contrived than real. Despite this finding, people still latched on to the concept and refused to accept that the fetus does not go through evolutionary stages. It is from this concept that many justify early stage abortion and embryonic stem cell research; the clump of cells or the mass does not look human.{9} This is an example of basing a person's value on their physical appearance and function.

Today we not only see this idea played out in the unborn, but also in the elderly and the infirmed. Many family members and doctors elect to end someone's life because they have deemed them less valuable. Again, the basis of this is on how well they physically function. One group is putting value on

another group.

Both of these examples demonstrate how our culture has bought into a materialistic worldview which devalues the person that does not have certain physical characteristics. As Christians we value human life and believe that the embryo, the aged, and the infirmed have inherent dignity despite how they might function or appear.

Education

We have been looking at how a Darwinian view of man led to a slow and steady dehumanization of man. Our view of origins affects other areas of life as well. In this section, we will address how a Darwinian view of man has influenced how we educate our children. A Darwinian view says that there is no absolute authority; there is merely survival of the fittest. In academics that means teaching based on what works, not on what is right.

One of the biggest influences on our educational system, both in public and private schools, has been John Dewey. As Nancy Pearcey points out in her book *Total Truth*, Dewey thought education should be like biological evolution where students construct their own answers based on what works best. Pearcey calls this "a kind of mental adaptation to the environment."{10} It is easy to see how this leads to moral relativism. Students are not taught character or values. Instead, they learn that an idea or a concept is deemed valuable if it works, not if it is right. Teachers are taught in certification classes to guide students along and help them to come up with their own moral code. Teachers are not allowed to punish students for wrongdoing, because they have no moral basis to do so, but are still expected to have an orderly classroom. In some cases teachers are not permitted to give a failing grade to a student who is genuinely failing. Also they are not permitted to give A's to good students for fear that

they may not continue putting forth effort. Students are stripped of the concept of an objective standard or absolute morals, and by the time they are high school seniors, they are more educated in how to play the system than in reading, writing, or arithmetic. This is the very fruit of Dewey's pragmatism, and it continues through the university level. When students are stripped of any set of beliefs and a moral foundation, they are left empty and ready to be filled with the pervading worldview of academia. What we end up with is a fully indoctrinated student with a materialistic worldview.{11}

Contemporary materialism's view of origins, known as Darwinism, has profound effects on our society. As Christians we need to be a light unto the world by showing that human beings are more than their genes and environment, that they have inherent value, and that there are moral foundations beyond survival of the fittest.

Notes

1. John West, *Darwin Day in America* (Wilmington, DE: ISI Books, 2007), 41-42.
2. Ibid., 73.
3. Ibid., 79-101
4. For a good article on capital punishment and human dignity see Kerby Anderson, "Capital Punishment," Probe, 1992, www.probe.org/capital-punishment/.
5. West, *Darwin Day*, 80.
6. Ibid., 162.
7 . Ibid., 325-335.
8. See Jonathan Wells, *Icons of Evolution* (Washington, DC: Regency Publishing, 2000), chap. 5.
9. Ibid., 330.
10. Nancy Pearcey, *Total Truth* (Wheaton, IL: Crossway Books, 2005), 239.
11. See Don Closson, "Humanist Psychology and Education" Probe, 1991,

www.probe.org/humanistic-psychology-and-education/; Closson, "Grading America's Schools," Probe, 2002, www.probe.org/grading-americas-schools/; and Kerby Anderson, "Cultural Relativism," Probe, 2004, www.probe.org/cultural-relativism/.

Darwin Day

February 12, 2009 is being promoted internationally as Darwin Day. Aside from being Abraham Lincoln's 200th birthday it is also Charles Darwin's 200th birthday. It's not too difficult a guess to say that the emphasis on Darwin is due in large part to the continuing success of groups around the world arguing that Darwinism is not all that it has been made out to be.

In America 40% of the general public still does not accept that a purely naturalistic process is responsible for all we see in the living world. This drives the community of evolutionary biologists and all humanist and atheist groups positively bonkers. They all but blame the decreasing enrollments in science programs in this country on this continuing reticence to accept Darwin.

Some see the need, therefore, to increase education on all things Darwin on the occasion of Darwin's anniversary and all the contributions of the man and the idea. We will hear how Darwin revolutionized biology. The often repeated quote of Theodosius Dobzhansky, a mid-20th century evolutionist, that "nothing in biology makes sense except in the light of evolution," will be repeated ad nauseum.

There is no doubt that Darwin made impressive contributions

about the ubiquitous nature of small scale changes in biological populations over time. Not all things Darwin are to be considered suspect. But separating the good from the bad can be a daunting challenge at times.

The recent documentary film, *Expelled: No Intelligence Allowed*, received howls of protest at the accusation that Darwinism made a contribution to the Nazis' eugenics program and ideas of racial purity. Never mind that these connections have been considered historical facts for decades. Richard Weikart's excellent book, *From Darwin to Hitler: Evolutionary Ethics, Eugenics, and Racism*, makes the case in great detail from the German literature of the early decades of the twentieth century. But casting aspersions on Darwin in a very public setting just isn't tolerated. People might get the wrong idea, you see, that Darwin is anything less than THE saint of modern biology.

You should also pay no attention to the fact that when the great Supreme Court Justice, Oliver Wendell Holmes, finished his soldiering in the Civil War, he became a convinced Darwinist after all the suffering he witnessed and participated in. This led to his rethinking about law in general. He soon realized that since all things biological change over time, so should the law that we govern ourselves by. Holmes was the original activist judge, making law instead of interpreting law. He firmly believed that law was a product of evolving cultures and traditions.{1}

The innovator in moral philosophy of education John Dewey was decidedly Darwinian. The originator of the still popular Values Clarification moral approach believed that moral values evolve just like biological features, and students must be free therefore to arrive at their own values. We simply can't know if our values are better or preferable than another's. When given a choice, most parents prefer their children be taught a clear system of right and wrong but most teachers prefer to teach a values clarification approach.{2}

If we're going to be bombarded with Darwiniana this month and for the rest of the year (since 2009 is also the 150th anniversary of the publication of Darwin's *On the Origin of Species*) let's appeal for some balance. Since even Abraham Lincoln is being reevaluated as perhaps not the great President many have idolized him to be, why not Darwin?

Check out Probe's numerous articles on the various problems with Darwinian practice and thinking. Also stop by the Discovery Institute's website at www.discovery.org/csc to keep up with the latest news through articles, podcasts, and news briefs.

Let's teach more Darwin for sure. But let's try to tell the whole story and not just the laundered propaganda of the evolutionary elite.

Notes

1. Nancy Pearcey, *Total Truth* (Wheaton, IL: Crossway Books, 2004), p. 228-229, 237.
2. Ibid., 238-242.

Josh McDowell on Using Redeeming Darwin With Expelled: No Intelligence

Allowed

Over the last 50 years, those with a Christian worldview have been the focus of condescension and exclusion in the academic community. As has happened throughout history, these attitudes from the academic community have gradually permeated our mainstream culture. Today, evangelical-bashing is the accepted standard position for all forms of mass media from news reporting to books and movies. Over the last decade, this trend has accelerated to the point that many people believe Christian principles and beliefs should not be recognized in our public policies and culture. We are all experiencing these efforts to relegate the Christian faith to an irrelevant sidelight of American culture.

One of the root causes of this trend is the teaching of naturalistic Darwinism as dogma within our public education system from grade school through our universities. The reasoning is that educated people know that science has proven there is no evidence for a creator. Therefore, there is no place for religion and moral authority in our public life. This attitude directly affects public policies on abortion, euthanasia, education, sexuality, etc.

Although Darwins theory of life originating and evolving to its current forms strictly though random events and natural selection may have seemed plausible 50 years ago, our current understanding of the nature of the universe and the complexity of even the simplest life forms bring up huge issues for which the current state of evolutionary theory has *no* answers. For example, over 700 scientists at our universities and research institutions have signed a statement expressing their doubt that Darwinism can adequately explain our current understanding of life in this universe (See dissentfromdarwin.org for the current list).

In a desperate attempt to protect the dogma upon which their

naturalistic/humanistic worldview is based, the scientific/educational establishment is systematically and viciously attacking those who would dare to research alternative theories that may better explain the current evidence. They have mounted a public relations campaign to paint any scientific research or publications which expose the issues with Darwinism as not science, but rather religiously based dogmatism or creationism. What is absolutely amazing is that while aggressively pursuing their campaign of persecution and spin-doctoring, the Darwinist community steadfastly denies that they are doing any such thing. Sadly, this campaign has been successful to date in keeping our public education system and most of our scientists captive to this worldview-motivated attempt to defend the dogma of Darwinism in the face of all evidence to the contrary.

Expelled: No Intelligence Allowed (starring Ben Stein) is a documentary scheduled to be released in April 2008. It exposes the blatant attempts to squelch academic freedom in defense of outdated Darwinist dogma. By chronicling the stories of well-qualified scientists who have dared to question Darwinism as a comprehensive explanation for life and interviewing people on both sides of these events, this documentary presents a strong case for restoring academic freedom allowing scientists to follow the evidence where it leads. Both the content and the involvement of Ben Stein (who is Jewish) make it clear that this documentary was not created to directly promote the teaching of creationism. This documentary calls Americans to stand up for academic freedom and integrity. It says that we should not allow the misguided notion that science and religion must be in conflict to keep scientists from exploring all reasonable hypotheses to explain the latest evidence.

The producers of *Expelled* are making a large financial investment to create a documentary targeted for wide release in thousands of movie theaters. They are taking this risk because they believe that the American public needs to

understand what is really happening. It is only through public awareness and pressure that the current climate of repression and persecution can be changed. *Expelled* is intended to bring this issue to the forefront of public thought. Promoting an open public debate could well lead to unshackling scientific research in this area and opening the door for students for receive more in-depth education in evolutionary theoryincluding those areas where evolutionary theory currently has no viable explanation.

The content of *Expelled* creates a natural opportunity for Christians to discuss the evidence for a creator and the reasons for our faith in Jesus Christ as Creator and Savior. *Expelled* will draw wide public attention to these issues and will create media attention and controversy even among those who do not see it. It would be a shame for believers to miss this opportunity to promote this public discussion and to engage our friends, neighbors and co-workers in making a defense for our hope in Christ.

So how can we go about doing this?

> *1. Let me encourage you to take the time to review the excellent, cutting-edge materials available through RedeemingDarwin.com. Make the effort to equip your people with the information and encouragement they need to communicate that the scientific evidence points to a creator and to share the relationship they have with the Creator. Again, this foundational issue is critical and will get more intense in the days ahead. The Redeeming Darwin material from Probe and EvanTell is ideal for this purpose.*
>
> *2. Make sure that they know that Expelled will bring this topic to the forefront in peoples conversation whether they have seen the documentary or not. We need to equip believers to look for opportunities to interact intelligently. You may want to make available the Viewers version of Probes Discovering the Designer DVD/booklet as a cost effective tool*

for your people to share with others (redeemingdarwin.com/products).

3. Encourage people to see this controversial documentary:

Expelled does not directly promote a Christian view. In fact, it does not even take the position that Intelligent Design has been shown to be a better theory than Darwinism. This helps establish a non-threatening, neutral starting point to engage in a thoughtful discussion. You are not asking people to watch a Christian film. You are encouraging them to become informed on an important issue.

Expelled is a documentary. It is not for entertainment. It will require the audience to think about what they are watching. Although it includes some humor (how could Ben Stein keep from adding humor?), it is a very serious documentary. Be sure people understand that they are attending for the purpose of learning not for a night out at the movies.

After you view the movie, you may want to think about how you could use the DVD version when it is available. If you are showing Expelled in a small group or some other venue, you can better focus peoples expectations.

4. Plan to offer small group opportunities to learn more about this controversy and how it ultimately points us to Christ. Once again, the Redeeming Darwin material is an excellent resource for this purpose.

“In Redeeming Darwin Are You Saying God Used Evolution?”

I read the description of “Redeeming Darwin” and an email supposedly explaining what you mean by “redeeming Darwin.” Neither explain exactly what you do in this program; are you saying that God used evolution? If so, I find this extremely unbiblical. Or are you saying that Darwinism as it now stands (“molecules-to-man” – i.e., macro-evolution) is true but that it can somehow be used to evangelize? Or are you saying that Darwinism as I described above is NOT valid, but that an actual 6-day Creation by God is what IS true?

I apologize that our description is not clearer. We will take another look at it to see what we can do to increase the clarity.

At Probe Ministries we reject the Darwinian evolutionary mechanism proposed for the origin and diversity of life. The *Redeeming Darwin* curriculum explains a few of the problems with Darwinism and explores the alternative provided by the relatively new Intelligent Design Movement.

Since Intelligent Design principles are used by both young and old earth creationist perspectives we use scientists in the film from both ICR (John Morris) and Reasons to Believe (Fuz Rana) to explain what they like and don’t like about ID.

As a ministry we do not take a position on the age of the earth question.

Respectfully,

Ray Bohlin, PhD

Life on Another Planet-Just Around the Corner?

In late April [2007], a group of European scientists made an announcement that created quite a stir in the mainstream media. For the first time, a planet which could potentially support life has been discovered outside of our solar system. One newspaper headline read "Scientists find potentially habitable planet—Discovery a big step in search for life in universe"{1}. Such an announcement raises important questions:

> *Is this newly discovered planet really a likely host for life?*
>
> *Does this discovery imply that the earth is not unique is its ability to support complex life as promoted by most proponents of Intelligent Design?*
>
> *If this planet does (or did) host life, would that detract from or support our belief in a transcendent creator?*

By considering these questions, we realize that this discovery provides more support for the theory of Intelligent Design than for Darwinism.

A Potentially Habitable Planet?

This planet orbits the red dwarf star, Gliese 581 and has been designated as 581 c. It cannot be seen from earth. It was detected by examining the effect its gravity had on the light emanating from its star. Based on that data, these scientists

projected that this planet may have temperatures between 32 and 104 degrees. With this temperature range and at 1.5 to 2 times the diameter of earth, it might be able to hold liquid water. In addition, its red dwarf star appears to be quite old and stable, suggesting that its planets may have been around for billions of years. Thus, some of the characteristics necessary for a naturalistic explanation of life may be associated with this planet.

However, a habitable planet requires much more than "just add water"{2} plus time. Further analysis of Gliese 581 c indicates that it probably has many characteristics unfavorable to life. Examples include:

> *It does not rotate around its axis, meaning one side is always in the sun while the other side remains in constant darkness. Some scientists are now suggesting that its surface temperatures will be much hotter than the original estimates.*
>
> *Since it orbits a red star with lower levels of electromagnetic radiation than our sun, this greatly limits the effectiveness of photosynthetic reactions.*

Uniqueness of Earth

On the Reasons To Believe Web site{3}, astrophysicist Hugh Ross has posted several articles identifying characteristics of our galaxy and earth that are necessary for life. In one paper{4}, he estimates the probability of the universe having a planet like earth exhibiting all 322 characteristics identified as critical for life. A high level analysis of the list in his paper indicates that Gliese 581 c may satisfy 112 of these characteristics (primarily because it exists in the same universe and galaxy as earth). Gliese 581 c is the first out of 220 planets identified outside our solar system that exists in the habitable temperature zone.{5} That leaves at least 210 questions unanswered such as:

Does it have a large enough moon to create tidal patterns?

Does it have just the right size, protecting planets to reduce the number of asteroid hits?

Does it have the right thickness of crust?

Does it have the right atmosphere?

Does it have the right mixture of minerals?

Using the probability estimates for each remaining characteristic, a conservative estimate for the probability that this planet could support life is 1 in 10^{199} (1 with 199 zeros after it). Please remember that this extremely low probability (essentially zero) is simply to have a planet that is habitable. It does not include the similarly minuscule probability of even the simplest life forms arising from inorganic matter. As renowned astrophysicist Stephen Hawking stated, "I expect there will be planets like Earth, but whether they have life is another question. We haven't been visited by little green men yet."{6} Since we can be virtually certain that this planet does not support any life, we may not want to spend the effort to travel to it—especially, when with current technology, it would take over 400,000 years to reach this planet.

Life on another planet—What would it mean?

Would finding life on another planet be a victory for Darwinism and proponents of naturalistic evolution as the sole force behind life as we know it? Quite the contrary! Given the extremely small probability of finding another habitable planet in our universe, multiplied by the equally small probability of life generating spontaneously on a habitable planet, finding life on another planet would have to be

considered a miracle.

In other words, finding even the simplest life forms on another planet would greatly increase the scientific evidence for intelligent design. Only a transcendent intelligent designer would be able to overcome those long odds to create life in multiple places in the universe. The theological implications of such a discovery would depend upon the nature of the life forms and will be left for future ponderings.

Bottom Line

The discovery of Gliese 581 c is an interesting event in astronomy which, if anything, further supports our view that the earth is very likely unique in its ability to support complex life. If life is ever discovered on another planet, it will further strengthen the position of intelligent design as the best theory to explain the evidence.

Notes

1. *Dallas Morning News*, April 24, 2007.

2. Jay Richards, Acton Institute, formerly with The Discovery Institute, the institutional home of the Intelligent Design movement.

3. www.reasons.org

4. Hugh Ross, "Probability for Life on Earth, 2004 April Update", Reasons to Believe, 2004.

5. It is interesting to note that Ross's paper allocated a probability of 1 in 1,000 to that same factor, which is the same order of magnitude as 1 out of 220. So if we used 1 out of 220 instead, the calculated probability would be less than 1 in 10^{198}.

6. *Dallas Morning News*, April 24, 2007.

Darwinism and Truth

Darwinism and the Fact/Value Split

Nancy Pearcey writes in her book *Total Truth* that Christians must counter the effects of our secular culture and mindset by developing a consistent and comprehensive biblical worldview.{1} In the middle chapters of her book, she demonstrates how Christians should do this with the question of origins.

Earlier in her book she notes that our society has divided truth into two categories. She calls this the sacred /secular split or the private/public split or the fact/value split. They are different ways of saying the same thing. Religion and moral values are subjective and shoved into the upper story where private opinions and values reside. And in the lower story are hard, verifiable facts and scientific knowledge.

There is another key point to this split. The two spheres should not intersect. In other words, it would be bad manners and a violation of logic to allow your personal and private choices and values to intersect with your public life. As the popular saying goes, that would be "shoving your religion down someone's throat."

Ray Bohlin's review of Pearcey's book provides further explanation for how this idea plays out in society.{2}

Darwinists accept this split and have even tried to convince Christians that in this way religion is safe from the claims

and conclusions of Darwinian evolution. But a brief glance at the best seller list shows that evolutionists regularly invade this upper story of values with their harsh criticism.

In *The God Delusion*, Richard Dawkins says that religious belief is psychotic, and arguments for the existence of God are nonsense. Sam Harris echoes that sentiment in his bestselling book, *Letter to a Christian Nation*. Daniel Dennett, in his book *Breaking the Spell*, believes that religion must be subjected to scientific evaluation.

Nancy Pearcey shows that Darwinism leads to naturalism. And this is a naturalistic view of knowledge where "theological dogmas and philosophical absolutes were at worst totally fraudulent and at best merely symbolic of deep human aspirations."{3} In other words, if Darwinian evolution is true, then religion and philosophical absolutes are not true. Truth, honesty, integrity, morality are not true but actually fraudulent concepts and ideas. If we hold to them at all, they were merely symbolic but not really true in any sense.

Daniel Dennett, in his book *Darwin's Dangerous Idea,* says that Darwinism is a "universal acid" which is his allusion to a children's riddle about an acid that is so corrosive that it eats through everything including the flask that holds it. In other words, Darwinism is too corrosive to be contained. It eats through every academic field of study and destroys ethics, morality, truth, and absolutes. When it is finished, Darwinism "eats through just about every traditional concept and leaves in its wake a revolutionized world-view."{4}

Darwinism and Naturalism

Pearcey writes that "Darwinism functions as the scientific support for an overarching naturalistic worldview."{5} Today scientists usually assume that scientific investigation requires naturalism. But that was not always the case.

When the scientific revolution began (and for the next three hundred years), science and Christianity were considered to be compatible with one another. In fact, most scientists had some form of Christian faith, and they perceived the world of diversity and complexity through a theistic framework. Pearcey points out that Copernicus, Galileo, Kepler, Newton, and others sought to understand the world and use their gifts to honor God and serve humanity.

By the nineteenth century, secular trends began to change their perspective. This culminated with the publication of *The Origin of Species* by Charles Darwin. His theory of evolution provided the needed foundation for naturalism to explain the world without God. From that point on, social commentators began to talk about the "war between science and religion."

By the twentieth century, G. K. Chesterton was warning that Darwinian evolution and naturalism was becoming the dominant "creed" in education and the other public arenas of Western culture. He said it "began with Evolution and has ended in Eugenics." Ultimately, it "is really our established Church."{6}

Today, it is easy to see how scientists believe that naturalism and science are essentially the same thing. They often slip from physics to metaphysics. In other words, they leave the boundaries of science and begin to make philosophical statements about the nature of the universe. While scientists can tell us how the universe operates, they cannot tell us if there is anything outside of the universe.

But that didn't stop astronomer Carl Sagan in the PBS program "Cosmos." The first words you hear from him are: "The Cosmos is all that is or ever was or ever will be."{7} In other words, the universe (or Cosmos) is all there is: no God, no heaven.

Now, Carl Sagan's comment is not a scientific statement. It's

a philosophical statement. And it set the ground rules for the rest of the program. Nature is all there is. In many ways it sounds like a creed. It is as if Carl Sagan was attempting to modify the *Gloria Patri*: "As it was in the beginning, is now, and ever will be."

Do those ideas end up in our children's books? Nancy Pearcey tells the story of picking up a science book for her son, *The Bears' Nature Guide*, which featured the Berenstain Bears. The Bear family goes on a nature walk. Turn a few pages in the book and you will see a sunrise with these words in capital letters: "Nature . . . is all that IS, or WAS, or EVER WILL BE!"{8} Sounds like a heavy dose of Carl Sagan's naturalism packaged for young children courtesy of the Berenstain Bears.

If you are looking for a resource to counter this Darwinian and naturalistic indoctrination, let me recommend Probe's DVD series on "Redeeming Darwin." It will give you the intellectual ammunition you need.

In *Total Truth*, Nancy Pearcey discusses many of the so-called "icons of evolution" that Jonathan Wells documents in his book by that title.{9} These examples show up in nearly every high school and college biology textbook. But these examples which are used to "prove" evolution are either fraudulent or fail to prove evolution.

Let's start with a piece of evidence for evolution that was found where Charles Darwin first got his inspiration for his theory of evolution: the Galapagos Islands. The islands can be found off the coast of South America. On those islands are finches, which have come to be known as Darwin's finches. It's hard to find a biology textbook that doesn't tell the story of these finches.

One study found that during a period of drought, the average beak size of these finches increased slightly. The reason cited for this is that during these dry periods, the most

available seeds are larger and tougher to crack than at other times. So birds with larger beaks do better in conditions of drought.

I spent an afternoon looking at specimens of Darwin's finches when I was in graduate school at Yale University and should point out that the changes in beak thickness is minimal and thus measured in tens of millimeters (thickness of a thumbnail). Moreover, the changes seem to be cyclical. When the rains returns, the original size seeds appear and the average beak size returns to normal.

This is not evolution. It is an interesting cyclical pattern in natural history. But it's not evolution. Nevertheless, one science writer enthusiastically proclaimed that this is evolution happening "before [our] very eyes."{10}

If this is evolution occurring then we should be seeing macro changes that would allow these finches to evolve into another species. But this cyclical pattern shows just the opposite. These minor changes in beak size and thickness actually allow them to remain finches under changing environmental conditions. It does not show them evolving into another species.

So what has been the response from the scientific establishment? The National Academy of Sciences put out a booklet on evolution for teachers. The booklet did not even mention that the average beak size returned to normal after drought. Instead the booklet makes unwarranted speculation about what might happen if these changes were to continue indefinitely for a few hundred years. "If droughts occur about once every ten years on the islands, a new species of finch might arise in only 200 years."{11}

Is this an accurate conclusion based upon the facts of natural history? It seems to be a clear example of misleading teachers (who in turn will unintentionally mislead their students). The

booklet teaches that the beak sizes in Darwin's finches are directional and evolutionary rather than cyclical and reversible.

A column in the *Wall Street Journal* made this point. "When our leading scientists have to resort to the sort of distortion that would land a stock promoter in jail," Phillip Johnson said, "you know they are in trouble."{12}

Ray Bohlin's review of Jonathan Well's book, *Icons of Evolution*, provides further detail on some of these examples.{13}

Peppered Moths

One example that appears in most biology textbooks is the story of the peppered moths in England. The moths appear in two forms: dark gray and light gray. During the Industrial Revolution, the factories produced pollution that darkened the tree trunks. This made it easier for birds to catch and eat the lighter colored moths. Later, when pollution was cleaned up, the tree trunks were lighter and it made it easier for the birds to catch the darker colored moths.

On its face, all this example proves is that the ratio of dark colored and light colored moths changed over time. In many ways, this is nothing more than another example of cyclical changes that we just discussed concerning Darwin's finches.

But there is much more to the story. Peppered moths don't actually perch on tree trunks. Actually they are quite torpid during the daylight hours and rest in the upper canopy of the trees.

If you have ever been in a biology class you have seen pictures of these moths on the tree trunks. You might even have seen a film that was made decades ago of birds landing on the trees and catching moths. It turns out that in order to

create the photos and the film scientists put the moths in a freezer to immobilize them and then glued them to the tree trunks.

How did this example become such an enduring icon of evolution? Scientists accepted it for many years uncritically because they wanted to believe it and needed a visual example to show evolution. The peppered moth story fit the bill and quickly became "an irrefutable article of faith."{14}

Now there are journal articles, and even books, that document the scientific scandal surrounding the story of the peppered moths. One leading evolutionist noted that the story was a "prize horse in our stable of examples." He goes on to say that when he learned the truth, it was like learning "that it was my father and not Santa Claus who brought the presents on Christmas Eve."{15}

But what is so amazing is that this example still shows up with regularity in biology textbooks, even though most scientists and textbook writers know the story is untrue. One reporter even interviewed a textbook writer who admitted that he knew the photos were faked but used them in the biology textbook anyway. "The advantage of this example," he argued, "is that it is extremely visual." He went on to add that "we want to get across the idea of selective adaptation. Later on, they can look at the work critically."{16}

The examples of the falsified "icons of evolution" demonstrate the extremes to which many Darwinists will go to "prove" the theory of evolution. They keep an incorrect example in the textbooks simply because it is visual and supports the theory of evolution and worldview of naturalism.

Fraudulent Embryos

Nearly every textbook has pictures of developing vertebrate embryos lined up across the page to demonstrate an

evolutionary history being replayed in the womb. These pictures are placed there to show common ancestry and thus prove evolution. During this day, Charles Darwin called the similarity of vertebrate embryos "by far the strongest single class of facts in favor of" his theory of evolution.{17}

In biology class many of us learned the phrase "ontogeny recapitulates phylogeny." That means that these developing embryos go through similar stages that replay the stages of evolution. So this supposedly was embryological proof of evolution.

But it turns out that the pictures were and are an elaborate hoax. German scientist Ernst Haeckel drew them in order to prove evolution. He deliberately drew the embryos more similar than they really are.

What is so incredible about this hoax is that is was known more than a century ago. Scientists knew the drawings were incorrect, and his colleagues accused him of fraud. An embryologist, writing in the journal *Science*, called Haeckel's drawings "one of the most famous fakes in biology."{18}

Now you would think that a hoax uncovered more than a hundred years ago would certainly not make it into high school and college biology textbooks. But if you assumed that, you would be wrong. Many textbooks continue to reprint drawings labeled as a hoax a century ago.

So why do Darwinists continue to believe in the theory of evolution and even use examples to "prove" evolution that are not true. It may be due to a bias in their worldview. The only theories that they believe are acceptable are those that are developed within a naturalistic framework.

Richard Dawkins noted: "*Even if there were no actual evidence* in favor of the Darwinian theory . . . we would still be justified in preferring it over rival theories."{19} Think about that statement for a moment. Even if there were no

evidence for evolution, Darwinists would still believe it because it is naturalistic.

Another professor made an even more incredible statement. He said: "Even if all the data point to an intelligent designer, such an hypothesis is excluded from science because it is not naturalistic."{20} Now think about that. Even if the evidence points to intelligent design rather than to evolution, it is excluded from consideration because it is not naturalistic.

As you can see from these two quotes (as well as from some of the other material presented here), the commitment to evolution is more philosophical than scientific. Nancy Pearcey concludes that "the issue is not fundamentally a matter of evidence at all, but of a prior philosophical commitment."{21}

Again, let me also recommend Probe's DVD series on "Redeeming Darwin" that is available through Probe's website www.probe.org.

Notes

1. Nancy Pearcey, *Total Truth: Liberating Christianity from Its Cultural Captivity* (Wheaton, Ill.: Crossway Books, 2004).
2. Raymond Bohlin, "Total Truth," Probe, 2005, www.probe.org/total-truth/.
3. Edward Purcell, *The Crisis of Democracy* (Lexington, KY: University Press of Kentucky, 1973), 8.
4. Daniel Dennett, *Darwin's Dangerous Idea* (NY: Simon and Schuster, 1995), 63.
5. Pearcey, *Total Truth*, 207.
6. G. K. Chesterton, *Eugenics and Other Evils* (NY: Dodd, Mead, 1927), 98.
7. Carl Sagan, *Cosmos* (NY: Random House, 1980), 4.
8. Pearcey, *Total Truth*, 157.
9. Jonathan Wells, *Icons of Evolution* (Washington, DC: Regnery, 2000).
10. Jonathan Weiner, "Kansas anti-evolution vote denies

students a full spiritual journey," *Philadelphia Inquirer*, 15 August 1999.
11. *Teaching About Evolution and the Nature of Science*, National Academy of Sciences, chapter 2, page 19, www.nap.edu/readingroom/books/evolution98.
12. Phillip Johnson, "The Church of Darwin," *Wall Street Journal*, 16 August 1999.
13. Ray Bohlin, "Icons of Evolution," Probe, 2001, www.probe.org/icons-of-evolution.
14. Peter Smith, "Darwinism in a flutter," book review of: *Of Moths and Men: Intrigue, Tragedy, and the Peppered Moth*, *The Guardian*, 11 May 2002.
15. Jerry Coyne, "Not black and white," book review of: *Melanism: Evolution in Action, Nature* 396(5 November 1998), 35.
16. Bob Ritter quoted in "Moth-eaten Darwinism: A disproven textbook case of natural selection refuses to die," *Alberta Report Newsmagazine*, 5 April 1999.
18. Michael Richardson, quoted in Pennisi, "Haeckel's Embryos: Fraud rediscovered," *Science* 277 (5 September 1997), 1435.
19. Richard Dawkins, *The Blind Watchmaker* (NY: Norton, 1986), 287, emphasis in original.
20. S.C. Todd, "A view from Kansas on that evolution debate," *Nature*, 30 September 1999, 423.
21. Pearcey, *Total Truth*, 169.