

Christian Views of Science and Earth History – A Balanced Perspective

Our authors consider the three primary views held by Christians regarding the age of the earth and how the universe, life and man came to be: young earth creationism, progressive creationism, and theistic evolution. After considering the case for each one, they conclude with a call to work together for the cause of Christ.

Introduction of Three Views

How old is the earth? Did men live with dinosaurs? Are dinosaurs in the Bible? Where do cave men fit in the Bible? Did the flood cover the whole earth? How many animals were on Noah's Ark? What does the word day in Genesis chapter one mean?

These are all common and difficult questions your children may have asked, or maybe they are questions you have. What may surprise you is that evangelical Christians respond with numerous answers to each question. In reality, answers to the preceding questions largely depend on the answer to the first one. How old is the earth?

The diversity of opinion regarding this question inevitably leads to controversy, controversy that is often heated and remarkably lacking in grace and understanding. For those Christians who are practicing scientists, there is much at stake. Not only is one's view of Scripture on the firing line, but one's respect and job security in the scientific community is also at risk.

But we must say up front, that as important as this question is, it is of secondary importance to the quest of defeating

Darwinism as currently presented to the culture. Educational leaders and evolutionary scientists are determined to present a fully naturalistic evolution as the only reasonable and scientific theory that can be discussed in the public education system. All Christians, whether old earth or young earth, should find common cause in dethroning philosophical naturalism as the reigning paradigm of education and science.

Returning to the age of the earth question, we would like to survey three general categories of response to this question that can be found among Christians today. For each of these three views, we will discuss their position on Genesis chapter one, since theological assumptions guide the process of discovering a scientific perspective. We will also discuss the basics of the scientific conclusions for each view. Finally, we will discuss the strengths of each view and what those holding the other two views think are the other's limitations.

The first view of science and earth history we will discuss is the recent or literal view. This position is often referred to as scientific creationism, creation science, or young earth creationism. Young earth creationists believe that the earth and the universe are only tens of thousands of years old and that Genesis gives us a straightforward account of God's creative activity.

The second position, progressive creationism or day-age creationism, holds that the earth and the universe are billions of years old. However, progressive creationists believe that God has created specifically and *ex nihilo* (out of nothing), throughout the billions of years of earth history. They do not believe that the days of Genesis refer to twenty-four hour days, but to long, indefinite periods of time.

A view traditionally known as theistic evolution comprises the third position. Theistic evolutionists essentially believe that the earth and the universe are not only billions of years

old, but that there was little, if any, intervention by God during this time. The universe and life have evolved by God-ordained processes in nature. Theistic evolutionists, or evolutionary creationists, as many prefer to be called, believe that the first chapter of Genesis is not meant to be read historically, but theologically. It is meant to be a description of God as the perfect Creator and transcendent over the gods of the surrounding ancient Near Eastern cultures.

Before we consider each position in greater detail, it is important to realize two things. First, we will paint in broad strokes when describing these views. Each has many sub-categories under its umbrella. Second, we will describe them as objectively and positively as we can without revealing our own position. We will reveal our position at the conclusion of this article.

Recent or Literal Creation

Having introduced each position, we would like to review the theological and scientific foundations for the first one: recent or young earth creationism.

The young earth creationist firmly maintains that Genesis chapter one is a literal, historical document that briefly outlines God's creative activity during six literal twenty-four hour days. If one assumes that the genealogies of Genesis chapters five and eleven represent a reasonable pre-Israelite history of the world, then the date of creation cannot be much beyond thirty thousand years ago.[\[1\]](#)

A critical theological conclusion in this view is a world free of pain, suffering, and death prior to the Fall in Genesis chapter three. God's prescription in Genesis 1:29 to allow only green plants and fruit for food follows along with this conclusion.

The universal flood of Noah, recorded in Genesis chapters six through nine, is also a crucial part of this view. On a young earth, the vast layers of fossil-bearing sedimentary strata found all over the earth could not have had millions of years to accumulate. Therefore, the majority of these sedimentary layers are thought to have formed during Noah's flood. Much research activity by young earth creationists is directed along this line.[{2}](#)

Young earth creationists also maintain the integrity of what is called the Genesis kind, defined in Genesis 1:11, 12, and 21. The dog kind is frequently given as an example of the Genesis kind. While this is still a matter of research, it is suggested that God created a population of dog-like animals on the sixth day. Since then, the domestic dog, wolf, coyote, African wild dog, Australian dingo, and maybe even the fox have all descended from this original population. Young earth creationists suggest that God created the individual kinds with an inherent ability to diversify within that kind. But a dog cannot cross these lines to evolve into say, a cat.

The literal view of Genesis chapter one has been predominant throughout Church history and it proposes a testable scientific model of the flood and the Genesis kind. Critics point out that there are immense difficulties explaining the entire geologic record in terms of the flood.[{3}](#) Principal among these problems is that it appears there are many more animals and plants buried in the rocks than could have been alive simultaneously on the earth just prior to the flood.

Progressive Creationism

The next view to discuss is progressive creationism. The progressive creationist essentially believes that God has intervened throughout earth history to bring about His creation, but not all at once over six literal twenty-four hour days. The progressive creationist will accept the long ages of the earth and the universe while accepting that there

is some historical significance to the creation account of Genesis.

A popular view of Genesis chapter one is called the day-age theory. This view agrees that the events described in the first chapter of Genesis are real events, but each day is millions, perhaps billions of years in duration. The Hebrew word for day, *yom*, can mean an indefinite period of time such as in Genesis 2:4. This verse summarizes the first thirty-four verses of the Bible by stating, "This is the account of the heavens and the earth when they were created, in the *day* that the Lord God made the earth and the heaven" (emphasis added). In this case, the word *day* refers to the previous seven days of the creation week. Consequently, the progressive creationist feels there is justification in rendering the days of Genesis chapter one as indefinite periods of time.[{4}](#)

Therefore, the progressive creationist has no problem with the standard astronomical and geological ages for the universe and the earth. A universe of fifteen billion years and an earth of 4.5 billion years are acceptable. In regard to evolution, however, their position is similar to the young earth creationists'. Progressive creationists accept much of what would be called microevolution, adaptation within a species and even some larger changes. But macroevolutionary changes such as a bird evolving from a fish are not seen as a viable process.[{5}](#)

These are the basic beliefs of most progressive creationists. What do they think is the predominant reason for holding to this perspective? Most will tell you that the evidence for an old universe and earth is so strong that they have searched for a way for Genesis chapter one to be understood in this framework. So the agreement with standard geology and astronomy is critical to them. Progressive creationists also find the biblical necessity for distinct evidence for God's creative activity so strong that the lack of macroevolutionary evidence also dovetails well with their position.

The most difficult problem for them to face is the requirement for pain, suffering, and death to be a necessary part of God's creation prior to Adam's sin. The atheistic evolutionist, Stephen J. Gould, from Harvard, commented on this problem of God's design over these many millions of years when he said, "The price of perfect design is messy relentless slaughter."[\[6\]](#) There are also major discrepancies with the order of events in earth history and the order given in Genesis. For instance if the days of Genesis are millions of years long, then when flowers were created on day three, it would be millions of years before pollinators, such as bees, were created on days five and six.

Theistic Evolution

Having covered young earth creationism and progressive creationism, we will now turn to the view called theistic evolution and then discuss our own position with a call to mark the common enemy of the evangelical community.

Most theistic evolutionists see little, if any, historical significance to the opening chapters of Genesis. They suggest that the Genesis narrative was designed to show the Israelites that there is one God and He has created everything, including those things which the surrounding nations worshipped as gods. In essence, Genesis chapter one is religious and theological, not historical and scientific.[\[7\]](#)

Another view of the account of creation according to Genesis that has become popular with progressive creationists as well as theistic evolutionists is the structural framework hypothesis.[\[8\]](#) This literary framework begins with the earth formless and void as stated in Genesis 1:2. The first three days of creation remove the formlessness of the earth, and the last three days fill the void of the earth. On days one through three God creates light, sea and sky, and the land. On days four through six, God fills the heavens, sky, sea, and land. There was a pattern in the ancient Near East of a

perfect work being completed in six days with a seventh day of rest. The six days were divided into three groups of two days each. In Genesis chapter one we also have the six days of work with a seventh day of rest, but the six days are divided into two groups of three days. So maybe this was only meant to say that God is Creator and His work is perfect.

Essentially, theistic evolutionists accept nearly all the scientific data of evolution including not only the age of the cosmos, but also the evolutionary relatedness of all living creatures. God either guided evolution or created the evolutionary process to proceed without need of interference.

Theistic evolutionists maintain that the evidence for evolution is so strong that they have simply reconciled their faith with reality. Since reading Genesis historically does not agree with what they perceive to be the truth about earth history, then Genesis, if it is to be considered God's Word, must mean something else. They do believe that God is continually upholding the universe, so He is involved in His creation.

Theistic evolution suffers the same problem with pain, suffering, and death before the Fall that progressive creation endures.[{9}](#) In addition, the many problems cited concerning the origin of life, the origin of major groups of organisms, and the origin of man remain severe problems for the theistic evolutionist as well as the secular evolutionist.[{10}](#) Some theistic evolutionists also quarrel with a literal Adam and Eve. If humans evolved from ape-like ancestors, then who were Adam and Eve? If Adam and Eve were not literal people, then is the Fall real? And how is redemption necessary if they are imaginary?

Call for Caution and Discussion

We have discussed the biblical and scientific foundations of three different Christian views of science and earth history.

In so doing, we have tried to convey a sense of their strengths and limitations. The issue of the age of the earth is very controversial among evangelicals, particularly those who have chosen some field of science as their career.

Our intention has been to present these perspectives as objectively as possible so you, the reader, can make an informed decision. We have purposefully kept our own views out of this discussion until now. We would like to take a moment and explain the reasoning behind our position.

We have studied this issue for over twenty years and have read scholars, both biblical and scientific from all sides of the question. For some ten years now, we have been confirmed fence sitters. Yes, we are sorry to disappoint those of you who were waiting for us to tell you which view makes more sense, but we are decidedly undecided. This is by no means a political decision. We are not trying to please all sides, because if that were the case, we know we would please no one. The fact is, we are still searching.

Biblically, we find the young earth approach of six consecutive 24-hour days and a catastrophic universal flood to make the most sense. However, we find the evidence from science for a great age for the universe and the earth to be nearly overwhelming. We just do not know how to resolve the conflict yet. Earlier, we emphasized that the age question, while certainly important, is not the primary question in the origins debate. The question of chance versus design is the foremost issue. The time frame over which God accomplished His creation is not central.

Such indecision is not necessarily a bad thing. Davis Young in his book *Christianity and the Age of the Earth*, gives a wise caution. Young outlines that both science and theology have their mysteries that remain unsolvable. And if each has its own mystery, how can we expect them to mesh perfectly?[\[11\]](#) The great 20th century evangelist, Francis Schaeffer said:

We must take ample time, and sometimes this will mean a long time, to consider whether the apparent clash between science and revelation means that the theory set forth by science is wrong or whether we must reconsider what we thought the Bible says. {12}

In the sixteenth century, Michelangelo sculpted Moses coming down from Mount Sinai with two little bumps on his head. The word which describes Moses' face as he came off the mountain, we now know means shining light, meaning Moses' face was brilliant from having been in God's presence. But at that time it was thought to mean "goat horns." So Michelangelo sculpted Moses with two horns on his head. That is what they thought the Bible literally said. Now we know better and we changed our interpretation of this Scripture based on more accurate information. We believe we need even more accurate information from both the Bible and science to answer the age of the earth question.

The question concerning the age of the earth comes down to a matter of interpretation, both of science and the Bible. Ultimately, we believe there is a resolution to this dilemma. All truth is God's truth. Some suggest that perhaps God has created a universe with apparent age. That is certainly possible, but certain implications of this make us very uncomfortable. It is certainly true that any form of creation out of nothing implies some form of apparent age. God created Adam as an adult who appeared to have been alive for several decades though only a few seconds into his existence.

Scientists have observed supernova from galaxies that are hundreds of thousands of light years away. We know that many of these galaxies must be this distant because if they were all within a few thousand light years, then the nighttime sky would be brilliant indeed. These distant galaxies are usually explained in terms of God creating the light in transit so we can see them today. These observed star explosions mean that

they never happened in an apparent age universe. Therefore, we are viewing an event that never occurred. This is like having videotape of Adam's birth. Would supernovas that never happened make God deceptive?

Therefore, we believe we must approach this question with humility and tolerance for those with different convictions. The truth will eventually be known. In the meantime, let us search for it together without snipping at each other's heels.

Notes

1. Henry Morris, *The Genesis Record* (Grand Rapids, MI: Baker Book House, 1976), 37-81.
2. Steven A. Austin, ed., *Grand Canyon: Monument to Catastrophe* (Santee, CA: Institute for Creation Research, 1994), 284.
3. Daniel E. Wonderly, *Neglect of Geologic Data: Sedimentary Strata Compared with Young-Earth Creationist Writings* (Hatfield, PA: Interdisciplinary Biblical Research Institute, 1987), 130. Howard J. Van Till, Robert Snow, John Stek, and Davis A. Young, *Portraits of Creation: Biblical and Scientific Perspectives on the World's Formation* (Grand Rapids, MI: Eerdmans Pub. Co, 1990), 26-125.
4. Hugh Ross, *Creation and Time* (Colorado Springs, CO: NAVPRESS, 1994), 45-72.
5. *Ibid.*, 73-80.
6. Stephen Jay Gould, "Darwin and Paley Meet the Invisible Hand," *Natural History* (November 1990):8. Mark Van Bebber and Paul S. Taylor, *Creation and Time: A Report on the Progressive Creationist Book by Hugh Ross* (Mesa, AZ: Eden Communications, 1994), 128.
7. Van Till, et al., *Portraits of Creation*, 232-242.
8. Umberto Cassuto, *A Commentary on the Book of Genesis: Part 1: From Adam to Noah*, trans. Israel Abrahams (Jerusalem Magnum Press, 1978), 12-17. Henri Blocher, *In the Beginning: The Opening Chapters of Genesis*, trans. David G. Preston (Leciester Press and Downers Grove: InterVarsity Press, 1984), 49-59.
9. Ken Ham, *Evolution: The Lie* (El Cajon, CA: Creation-Life Pub., 1987).
10. Phillip E. Johnson, *Darwin on Trial*, 2nd ed. (Downers Grove, IL: InterVarsity Press, 1993), 15-112, 166-170.

11. Davis A. Young, *Christianity and the Age of the Earth* (Grand Rapids: Zondervan, 1982), 158.

12. Francis Schaeffer, *No Final Conflict* (Downers Grove: InterVarsity Press, 1975), 24.

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A Darwinian View of Life

A River of DNA

A River Out of Eden: A Darwinian View of Life by Richard Dawkins is the fourth in a series being published by Basic Books entitled "The Science Masters Series." This series is said to be "a global publishing venture consisting of original science books written by leading scientists. "Purposing to "present cutting-edge ideas in a format that will enable a broad audience to attain scientific literacy," this series is aimed at the non-specialist.

The first three releases were *The Last Three Minutes: Conjectures about the Ultimate End of the Universe* by Paul Davies, *The Origin of Humankind* by Richard Leakey, and *The Origin of the Universe* by John D. Barrow. These were followed by the contribution from Dawkins. A look at these books, and at future contributors like Daniel Dennett, Jared Diamond, Stephen Jay Gould, Murray Gell-Mann, Lynn Margulis, and George C. Williams, makes the endeavor look less like a scientific literacy series and more like an indoctrination in philosophical naturalism.

The exposition of a Darwinian view of life by Dawkins in *River Out of Eden* certainly fits into the overt anti-theism category. His "River Out of Eden" is a river of DNA that is

the true source of life and the one molecule that must be understood if life is to be understood.

This river of DNA originally flowed as one river (one species) which eventually branched into two, three, four, and eventually millions of rivers. Each river is distinct from the others and no longer exchanges water with the others, just as species are isolated reproductively from other species. This metaphor allows Dawkins to explain both the common ancestry of all life along with the necessity of gradualism in the evolutionary process.

Dawkins refers to this river of DNA as a digital river. That is, the information contained in the DNA river is completely analogous to the digital information of languages and computers.

Surprisingly, Dawkins gives away the store in this first chapter. In pressing home the digital analogy, Dawkins first uses probability to indicate that the code arose only once and that we are all, therefore, descended from a common ancestor:

The odds of arriving at the same 64:21 (64 codons: 21 amino acids) mapping twice by chance are less than one in a million million million million million. Yet the genetic code is in fact identical in all animals, plants and bacteria that have ever been looked at. All earthly living things are certainly descended from a single ancestor. (p. 12)

So it is reasonable to use probability to indicate that the code could not have arisen twice, but there is no discussion of the probability of the code arising by chance even once. A curious omission! If one tried to counter with such a question, Dawkins would predictably fall back on the assumption of naturalism that since we know only natural processes are available for the origin of anything, the genetic code must have somehow beaten the odds.

African Eve

Chapter 2 attempts to tell the story of the now famous "African Eve." African Eve embodies the idea that we are all descended from a single female, probably from Africa, about 200,000 to 100,000 years ago. This conclusion originates from sequence data of the DNA contained in mitochondria.

Mitochondria are tiny little powerhouses that produce energy in each and every cell of your body. Just as your body contains many organs that perform different functions, the cell contains many organelles that also perform specific functions. The mitochondrion is an organelle whose task is to produce energy molecules the cell can use to accomplish its tasks.

However, mitochondria are also the only organelle to contain their own DNA. Certain proteins necessary to the function of mitochondria are coded for by the mitochondrial DNA and not by the nuclear DNA like every other protein in the cell. One other unique aspect of mitochondria is their maternal inheritance. That is, all the mitochondria in your body are descended from the ones you initially inherited from your mother. The sperm injects only its DNA into the egg cell, not its mitochondria. Therefore, an analysis of mitochondrial DNA reveals maternal history only, uncluttered by the mixture of paternal DNA like nuclear DNA. That's why these studies only revealed an African Eve, though other recent studies claim to have followed DNA from the Y chromosome to indicate an ancient "Adam."

Now these scientists don't actually think they have uncovered proof of a real Adam and Eve. They only use the names as metaphors. But this action does reveal a shift in some evolutionists minds that there is a single universal ancestor rather than a population of ancestors. This at least is closer to a biblical view rather than farther away.

Finally, Dawkins makes his case for the reliability of these molecular phylogenies in general. Here he glosses over weaknesses in the theory and actually misrepresents the data. On page 43 he says, "On the whole, the number of cytochrome c letter changes separating pairs of creatures is pretty much what we'd expect from previous ideas of the branching pattern of the evolutionary tree." In other words, Dawkins thinks that the trees obtained from molecular sequences nearly matches the evolutionary trees we already had. Later on page 44, when speaking of all molecular phylogenies performed on various sequences, he says, "They all yield pretty much the same family tree which by the way, is rather good evidence, if evidence were needed, that the theory of evolution is true."

Well, besides implying that evidence is not really needed to prove evolution, Dawkins stumbles in trying to display confidence in the molecular data. What exactly does "pretty much" mean anyway? Inherent in that statement are the numerous contradictions that don't fit the predictions or the ambiguous holes in the general theory. But then, evidence isn't really needed anyway is it?

While this chapter contained the usual degree of arrogance from Dawkins, particularly in his disdain for the original account of Adam and Eve, it was somewhat less compelling or persuasive than is his usual style. He hedged his bet frequently and simply waived his hand at controversy. Unfortunately, this may not be picked up by the unwary reader.

Scoffing at Design

In Chapter 3 Dawkins launches a full-scale assault on the argument from design. After presumably debunking arguments from the apparent design of mimicry (not perfect design, you know, just good enough), Dawkins states, "Never say, and never take seriously anybody who says, 'I cannot believe so-and-so could have evolved by gradual selection.' I have dubbed this fallacy 'the Argument from Personal Incredulity.'"

To some degree I'm afraid that many creationists have given Dawkins and others an easy target. Such a statement, "I cannot believe...", has been used many times by well-meaning creationists but is really not very defensible. It is not helpful to simply state that you can't believe something; we must elaborate the reasons why. First, Dawkins levels the charge that much of what exists in nature is far from perfectly designed and is only good enough. This he claims is to be expected of natural selection rather than a designer. This is because a designer would design it right while natural selection has to bumble and fumble its way to a solution. To begin with, the lack of perfection in no way argues for or against a designer.

I have always marveled at some evolutionists who imply that if it isn't perfect, then Nature did it. Just what is perfection? And how are we to be sure that our idea of a perfect design wasn't rejected by the Creator because of some flaw we cannot perceive? It is a classic case of creating God in our own image.

The evolutionists are the ones guilty of erecting the straw man argument in this instance. In addition, Dawkins fully admits that these features work perfectly well for the task at hand. The Creator only commanded His creatures to be fruitful and multiply, not necessarily to be perfectly designed (humanly speaking) wonders. Romans 1:18-20 indicates that the evidence is sufficient if you investigate thoroughly.

Dawkins further closes off criticism by declaring that "there will be times when it is hard to think of what the gradual intermediates may have been. These will be challenges to our ingenuity, but if our ingenuity fails, so much the worse for our ingenuity." So if explanations fail us, the fault is not with the evolutionary process, just our limited thinking. How convenient that the evolutionary process is so unfalsifiable in this crucial area. But after all, he implies, this is science and intelligent design is not!

Dawkins concludes the chapter with a discussion on the evolution of the honeybee waggle dance. It is filled with probabilistic statements like “The suggestion is that... Perhaps the dance is a kind of... It is not difficult to imagine... Nobody knows why this happens, but it does... It probably provided the necessary...” Yet at the end, Dawkins proclaims,

We have found a plausible series of graded intermediates by which the modern bee dance could have been evolved from simpler beginnings. The story as I have told it...may not be the right one. But something a bit like it surely did happen.

Again, “it happened” only because any other explanation has been disallowed by definition and not by the evidence.

God’s Utility Function

Dawkins concludes his attack on design in his book *River Out of Eden*, with a more philosophical discussion in Chapter 4, God’s Utility Function. He begins with a discussion of the ubiquitous presence of “cruelty” in nature, even mentioning Darwin’s loss of faith in the face of this reality. Of course, his answer is that nature is neither cruel nor kind, but indifferent. That’s just the way nature is.

But a curious admission ensues from his discussion. And that is, “We humans have purpose on the brain.” Dawkins just drops that in to help him put down his fellow man in his usual arrogant style. But I immediately asked myself, “Where does this ‘purpose on the brain’ stuff come from?”

The rest of nature certainly seems indifferent. Why is it that man, within an evolutionary worldview, has “purpose on the brain”? In his attempt to be cute, Dawkins has asked an important question: Why is man unique in this respect?

As Christians, we recognize God as a purposeful being;

therefore if we are made in His image, we will also be purposeful beings. It is natural for us to ask "Why?" questions. No doubt if pressed, someone will dream up some selective or adaptive advantage for this trait. But this, as usual, would only be hindsight, based on the assumption of an evolutionary worldview. There would be no data to back it up.

At the chapter's end Dawkins returns to his initial topic. "So long as DNA is passed on, it does not matter who or what gets hurt in the process... But Nature is neither kind nor unkind... Nature is not interested one way or another in suffering, unless it affects the survival of DNA." Even Dawkins admits that this is not a recipe for happiness. The problem of evil returns. Dawkins's simple answer is that there is no problem of evil. Nature just is.

He recounts a story from the British papers of a school bus crash with numerous fatalities and reports a Catholic priest's inadequate response to the inevitable "Why" question. The priest indicates that we really don't know why God would allow such things but that these events at least confirm that we live in a world of real values: real positive and negative. "If the universe were just electrons, there would be no problem of evil or suffering." Dawkins retorts that meaningless tragedies like this are just what we expect from a universe of just electrons and selfish genes.

However, it is also what we expect in a fallen world. Evolutionary writers never recognize this clear biblical theme. This is not the way God intended His world to be. What is unexpected in an evolutionary world are people shaped by uncaring natural selection who care about evil and suffering at all. Why are we not as indifferent as natural selection?

In making his point, Dawkins says that the amount of suffering in the natural world is beyond all "decent" contemplation. Where does decency come from? He calls the bus crash a "terrible" story. Why is this so terrible if it is truly

meaningless? Clearly, Dawkins cannot live within the boundaries of his own worldview. We see purpose and we fret over suffering and evil because we are created in the image of a God who has the same characteristics. There are aspects of our humanity that are not explainable by mutation and natural selection. Dawkins must try to explain it, however, because his naturalistic worldview leaves him no choice.

Are We Alone?

Dawkins closes his book with a final chapter on the origin of life and a discussion on the possibilities of life elsewhere in the universe. This chapter is a bit of a disappointment because there is really very little to say. To be sure, it is filled with the usual Dawkins arrogance and leaps of naturalistic logic, but there is no real conclusion just the possibility of contacting whatever other life may be out there.

Dawkins begins with a definition of life as a replication bomb. Just as some stars eventually explode in supernovas, so some stars explode with information in the form of life that may eventually send radio messages or actual life forms out into space. Dawkins admits that ours is the only example of a replication bomb we know, so it is difficult to generalize as to the overall sequence of events that must follow from when life first appears to the sending of information out into space, but he does it anyway.

While we can clearly distinguish between random and intelligent radio messages, Dawkins is unable to even ask the question about the origin of the information-rich DNA code. I suppose his answer is contained on page 138 when he says, "We do not know exactly what the original critical event, the initiation of self-replication, looked like, but we can infer what kind of an event it must have been. It began as a chemical event."

This inference is drawn not from chemical, geological, or biological data, because the real data contradicts such a notion. Dawkins takes a few pages to evoke wonder from the reader by documenting the difficult barriers that had to be crossed. His conclusion that it was a chemical event is rather an implication that is derived from his naturalistic worldview. It is a chemical event because that is all that is allowed. Creation is excluded by definition, not by evidence. While chemical evolution may be difficult, we are assured that it happened!

The book closes with a discussion of the Ten Thresholds that must be crossed for a civilization of our type to exist. Along the way, Dawkins continues to overreach the evidence and make assumptions based on naturalism without the slightest thought that his scenario may be false or at least very wide of the mark.

All along the way Dawkins tries to amaze us with both the necessity and complexity of each threshold but fails miserably to explain how each jump is to be accomplished. He depends totally on the explanatory power of natural selection to accomplish whatever transition is needed. It is just a matter of time.

But, of course, this begs the question. Dawkins perfects this art for 161 pages. Despite the smoke and mirrors, Richard Dawkins is still trying to sail upstream without a paddle. It just won't work. While many of his explanations and ruminations should make careful reading for creationists (he is not stupid and writes well), I have tried to point out a few of his inconsistencies, assumptions, and poor logic.

What bothers me most is that this is meant to be a popular book. His wit and dogmatism will convince and influence many. For these reasons I found it a frustrating and sometimes maddening book to read. Unfortunately, few will think their way through these pages and ask tough questions of the author

along the way. This is where the real danger lies. We must not only show others where he is wrong but help them how to discover these errors on their own. We must help people to think, not just react.

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