Mere Creation: Science, Faith and Intelligent Design

An unprecedented intellectual event occurred in Los Angeles on November 14-17, 1996. Under sponsorship of Christian Leadership Ministries, Biola University hosted a major research conference bringing together scientists and scholars who reject naturalism as an adequate framework for doing science and who seek a common vision of creation united under the rubric of intelligent design. The two hundred participants, primarily academics, formed a nonhomogeneous group. Most had never met each other. Yet virtually all the participants questioned the reigning paradigm of biologynamely, that natural selection and mutation can account for the origin and diversity of all living things.{1}

So said Dr. Henry F. Schaefer III, professor of chemistry at the University of Georgia, author of over 750 scientific publications, director of over fifty successful doctoral students, and five-time Nobel nominee, in his foreword to the 1998 book, *Mere Creation: Science, Faith and Intelligent Design.*{2} I was privileged to be one of the two hundred participants at this historic conference which, along with the subsequent book, form the backbone of future direction of the fledgling intelligent design movement.

I would like to highlight significant chapters from this book and provide additional resources to learn more about this important challenge to Darwinism. Along the way I hope you will gain a glimpse of how important this movement is to the future not just of biology, but of science education as a whole in this country and around the world.

Jonathan Wells is a post-doctoral research biologist in the department of molecular and cell biology at the University of California at Berkeley. His Ph.D. is from the same institution

in developmental biology. In his chapter, “Unseating Naturalism,”{3} Wells lists several important insights from developmental biology that seriously challenge a purely naturalistic biologic science.

Since 1983, homeotic genes have been the rage in evolutionary developmental biology. First discovered in fruit flies, these genes appear to act as switches to turn on a series of genes important for sequential levels of development. Of interest to evolutionists, is the fact that many of the same genes found in fruit flies are also found in almost every other animal group, all acting as developmental switches. They are even frequently found on the same chromosome and in the same order from species to species. Such evidence seems quite a compelling argument for all life forms evolving from a common ancestor.

But Wells quickly points out that these genes do not control the same body structures from species to species, so an evolutionary explanation does not fit so well. “If the same gene can ‘determine’ structures as radically different as a fruit fly’s leg and a mouse’s brain or an insect’s eyes and the eyes of humans and squids, then that gene is not determining much of anything.”{4} There is no current mechanism to understand how a homeotic-switching gene can change from coding for one function to another in different organisms. Suddenly, this new great evidence of evolution is yet another problem for evolutionary biology. Wells goes on to point out that intelligent design has no trouble incorporating similar switches in different organisms just as an engineer understands the use of similar ignition switches in different kinds of vehicles.

Wells concludes that, “A design paradigm can nurture the sort of formal and teleological thinking that will enable biologists to discover the laws of development that have so far eluded them.”{5} The reason for the elusion is the shackles of Darwinism.

Redesigning Science

In taking a close look at the book, *Mere Creation*, edited by Bill Dembski, I would like to explore Dembski's own contribution to the volume, "Redesigning Science."{6} If the name Bill Dembski is unfamiliar to you, it won't be for long. Dembski is an extremely bright and articulate young man with earned doctorates in mathematics from the University of Chicago and philosophy from the University of Illinois at Chicago along with an M. Div. from Princeton Theological Seminary. Dembski is also the author of perhaps the most significant book to date in the intelligent design movement, *The Design Inference: Eliminating Chance through Small Probabilities*{7}, from the prestigious Cambridge University Press.

Bill is also confident. He is confident that intelligent design can thoroughly reshape the horizons of science in the next twenty years. He begins his chapter with a whimsical scenario recounting a "nightmare" potentially experienced by Harvard paleontologist and vocal anti-creationist, Stephen Jay Gould. The nightmare includes Gould no longer teaching at Harvard, relegated to leading field trips to the Galapagos Islands and the Burgess Shale in the Rocky Mountains of Canada, with Phil Johnson and cronies firmly in control of the National Science Foundation.{8} While Dembski admits that the nightmare is hopefully not realized in all its details, the notion of design claiming primacy within science is clearly the objective.

In order for this objective to be realized, design must be specifically and rigorously defined. I'll allow Dembski to explain in his own words.

> *The key step is to delineate a method for detecting design. Such a method exists. We use it implicitly all the time. . . . The method takes the form of a three-stage explanatory filter. Given something we think might be designed, we submit*

> *it to the filter. If it successfully passes all three stages of the filter, then we are warranted asserting it is designed. Roughly speaking, the filter asks three questions, and in the following order: Does a law explain it? Does Chance explain it? Does design explain it?{9}*

In trying to classify an event as either due to natural law, chance, or design, we first try to assess if it is an event of high probability and therefore due to some recognizable natural law. A bullet firing when a gun's trigger is pulled or getting at least one head when a fair coin is tossed a hundred times are both high probability events due to natural law.

Rolling snake eyes with a pair of fair dice, or even winning a million dollar lottery when considering how many tickets are sold, constitute events of intermediate probability that are justly relegated to chance.

But let's say the same person wins that lottery three times in a row or even twice in a row. Suddenly we suspect that something more than chance is involved. Dembski's own example is Nicholas Caputo, the county clerk of Essex County, New Jersey. Caputo was responsible for determining the order in which candidates appeared on the ballots for elections. Caputo was a Democrat and 40 out of 41 times the Democrats were listed first, which everyone agrees, gave them a slight advantage. We intuitively use the explanatory filter to classify these events as designed because they are of small probability and they conform to a pattern. Thus intelligent design combines small probability with what Dembski terms, "specified complexity."

Dembski and the other authors of *Mere Creation* believe we can apply the same test scientifically to physical, chemical, and biological events.

The Explanatory Power of Design

One of the critical questions for intelligent design is its ability to explain at least some natural phenomena more completely than naturalistic science. Stephen Meyer addresses this problem in his chapter, "The Explanatory Power of Design."{10} Steve Meyer is professor of philosophy at Whitworth College in Spokane, Washington, with a Ph.D. in the history of and philosophy of science from Cambridge University, England. As an example of design's explanatory power, Meyer chooses to explore the origin of information within living systems, specifically the origin of the genetic code. Meyer brings a scholarly appraisal to the subject since his Ph.D. dissertation concerned the history and status of origin of life research.

Meyer summarizes the extreme problems origin of life research has encountered in the last thirty years, highlighting along the way the important work by Charles Thaxton and Walter Bradley.{11} Following the euphoria of the famous experiment by Miller and Urey in 1953, the origin of life community has suffered setback after setback. Miller and Urey demonstrated that a mixture of methane, ammonia, water and hydrogen could be induced to produce, among many other organic compounds, a few amino acids, the building blocks of proteins. Subsequent work showed that this hypothetical atmosphere was pure mythology. So was the notion of a prebiotic soup of biochemical building blocks.{12}

Beyond the purely biochemical difficulties of origin of life research looms the immense problem of accounting for the origin of complex specified information contained in biomolecules, and specifically in DNA and the genetic code. In the computer age we are often amazed at the speed and storage capacity of modern personal computers, particularly the laptop variety with their 12 gig hard drives and 500 MHz speeds. We seldom realize, however, that "the information storage density

of DNA, thanks largely to nucleosome spooling, is several trillion times that of the most advanced computer chips."{13} So not only is there real information stored in DNA, but it is stored at a density on a molecular level, we can't even approach with our best computers. So just where did this information come from?

Attempts to account for the origin of biological information by natural biochemical means have utterly failed. The odds of achieving even a small 100 amino acid protein are less than 1 in 10^{125}. Events of that small a probability just don't happen. Not only that, but researchers now realize that natural forces are incapable of achieving the formation of bio-information by any process. At first, some thought that maybe the amino acids and nucleotides had some natural affinity for each other to help account for the specific sequences of proteins and DNA. When that turned into a dead end, some hoped that some sort of natural selection of molecules might help. But natural selection requires reproducing cells. So-called "self-organization" processes only provide low level order, like ripples in the sand, not informational messages like "JOHN LOVES MARY" written in the sand.

Scientific laws will only describe ordered natural phenomena, like the structure of a crystal, which bear no relationship to the specified complexity within biomolecules. Instead, our experience with informational codes and languages indicates that they always come from an intelligent source. Therefore mind or intelligence stands as the only possible source for the information in DNA, proteins and cells as a whole.{14}

Applying Design within Biology

Have you ever wondered how a baby is formed from a single cell in just nine months? You could ask the same question of just about any animal from wasps to caterpillars to frogs to clams. A fully functioning organism is a symphony of integrated parts

performing in coordinated fashion to make beautiful music. But where did all the orchestra members (or proteins) come from? And who told them where to sit? And how do they know when and what to play? And what about tempo and volume and on and on? Well, you get the picture. Biological organisms are immensely complex, but they all start out as single cells. Somehow they turn into assemblages of different cells and tissues that all know their places and roles. Embryological development has long been a mystery and its secrets are only slowly being revealed. It has also turned into a potentially fruitful battleground between evolution and intelligent design.

Paul Nelson recently received his Ph.D. in philosophy from the University of Chicago and is currently doing post-doctoral work at the same university in evolutionary and developmental biology. The connection between embryological development and evolution is significant because, in order for organisms as diverse as hawks and starfish to evolve from a common ancestor, they must change not only their outward appearance but also the developmental process that starts as single cells for both. Nelson's "Applying Design within Biology" explores the connection and its inherent contradictions.{15}

A major observation of embryology has been that developmental mutations are usually harmful and often fatal. And the earlier in the developmental process the mutation occurs, the more likely the effect will be harmful. This led most embryologists to believe that evolutionary changes utilize mutations that appear relatively late in embryological development. Subsequently Darwinists predicted that the further back you go in comparing two organisms' patterns of development, the more similar they will be. Unfortunately for evolution, this is not true. There is wide diversity of early cleavage patterns of cells in embryos from species that can actually be closely related. One author went so far as to refer to this as "intellectually disturbing."{16}

Such a dramatic reversal would, you would think, cause many or

at least some developmental biologists to question the validity of Darwinism. But as I have indicated so many other times in other essays, Darwinism is assumed, not questioned. Biologists mainly concluded that change in early development is doable after all and quite common. But as Nelson aptly summarizes, “There is little if any experimental evidence that ‘changes in early development are possible.'”{17}

While the diversity of pathways to similar ends in development is a problem for evolutionary developmental biology, it is an expectation of intelligent design. The sheer magnitude of instructions for embryological progress screams for a design perspective. Design is also found in the newly discovered redundancy of developmental pathways. Knocking out a seemingly essential gene can sometimes have no effect whatsoever. Built-in redundancy is a hallmark of *design*, not chance mutations and natural selection. Nelson basically believes that any element of an organism necessary for survival and reproduction in any environment is a strong candidate for design. This should help open up new research avenues for developmental biology which is exactly what new theories should do.

Basic Types of Life

Next time you are walking through a zoo, stop and think about what makes some animals different and others similar. For instance, if you are looking out over a large pond, you may see different species of ducks, geese, and swans. While they do appear different in some respects, there are also very tantalizing similarities. However, if there are also some flamingos or sea gulls in the crowd of aquatic birds, you would not put them in the same category as ducks and geese. They seem different. Evolutionists, of course, would see sufficient similarities: they are birds, after all, with wings, feathers, and beaks. So evolutionists would say they all evolved from a common ancestor. Ducks and geese are more similar to each other than they are to flamingos so the

ancestor of ducks and geese is more recent than the ancestor of ducks, geese, and flamingos.

But since intelligent design is calling into question many evidences and predictions of naturalistic evolution, it is reasonable to assume that all animals are not related back in time through a common ancestor. Perhaps all birds did not evolve from a single source. Maybe there are many different ancestors for the many groups of birds and other animals. Well, how would you know? How could you recognize groups of animals that do derive from a common ancestor and those that have arisen independently? Siegfried Scherer makes an attempt in his chapter titled, "Basic Types of Life." {18}

Dr. Scherer is a professor of microbial ecology and director of the Institute of Microbiology at the Technical University of Munich and has published numerous papers in international peer-reviewed journals. Scherer proposes that there is another unit of taxonomic classification that can be overlaid on current taxonomy, the idea of basic types.{19} A basic type is a group of organisms or species that are capable of hybridizing. These hybrids don't necessarily have to be fertile themselves. Simply producing a coherent functioning organism from sperm and eggs of different species is sufficient.{20} Numerous successful attempts to hybridize different species of ducks, swans, and geese have convinced Scherer that they belong to a single basic type. This would mean that all 148 species are descended from a single common ancestor.{21}

The distinct differences mentioned earlier, between ducks and flamingos, would result from them being of different basic types. This observation leads Scherer to suggest that microevolution can now be defined as evolution within one basic type and macroevolution as evolution between basic types. The current evidence suggests that macroevolution is an undocumented process both from the fossil record and the biology of basic types.

The plethora of species within a basic type like the ducks and geese also suggests that there was a great deal of variation built into each basic type to allow many distinct species to form through speciation. This prediction would be consistent with intelligent design but not evolution. There would be no reason for evolution to suggest that some species would have more variation than others would. This is corroborated by the observation that hybrids between two species frequently resemble a third species. This indicates that the genetic combination of the third species was hidden between the two species used to form the hybrid.{22}

Scherer summarizes that evidence of individual ancestors for each basic type, fossil and biological gaps between basic types, similar or convergent characters in different basic types, and odd features, such as slightly differing genetic codes now found in a few organisms would also be evidence of design over evolution. The possibilities for further research are everywhere. Intelligent design becomes an extremely fruitful paradigm for research.

Notes

1. Henry F. Schaefer III, "Foreword," in *Mere Creation: Science, Faith and Intelligent Design*, William A. Dembski, Ed. (Downers Grove, Ill.: InterVarsity Press, 1998), 9.

2. Ibid., 475.

3. Ibid.,, 51-70.

4. Ibid., 56.

5. Ibid., 68.

6. Ibid., 93-112.

7. William A. Dembski, *The Design Inference: Eliminating Chance through Small Probabilities* (Cambridge: Cambridge

University Press, 1998), 243.

8. Dembski, *Mere Creation*, 93.

9. Ibid., 94.

10. Ibid., p. 113-147.

11. Charles Thaxton, Walter Bradley and Roger Olsen, *The Mystery of Life's Origin: Reassessing Current Theories* (Dallas: Lewis and Stanley, 1984), 228.

12. *Mere Creation*, 118-119.

13. Ibid., 120.

14. Ibid., 136-137.

15. *Mere Creation*, 148-174.

16. Eric Davidson, quoted in *Mere Creation*, 155.

17. Ibid.

18. Ibid., 195-211.

19. Scherer does at least mention a competing idea, baramin, initially proposed by creationist Frank Marsh (*Fundamental Biology*, 1940, Lincoln Neb., n.p., *Variation and Fixity in Nature*, Mountain View, Calif.: Pacific Press) and further explicated by Kurt Wise (K. Wise, Baraminology: "A Young Earth Creation Biosystematic Method, in *Proceedings of the Second International Conference on Creationism*, R.E. Walsh and C.L. Brooks, eds. (Creation Science Fellowship, Pittsburgh, PA, 1990, Vol. 2, 345-360 and K. Wise, "Practical Baraminology," *Creation Ex Nihilo Technical Journal*, 1991, 6(2): 122-137). Scherer chooses not to mention another attempt in fleshing out this concept, the prototype, proposed by Lane P. Lester and Raymond G. Bohlin in *The Natural Limits to Biological Change* (Dallas: Probe Books, 1984), 161-172.

20. *Mere Creation*, 197-199.

21. Ibid., 200.

22. Ibid., 203-204.

Why Does the University Fear Phillip Johnson?

Who Is Phillip Johnson?

Best-selling author Phillip Johnson has become the leader of the Intelligent Design movement. His books *Darwin on Trial, Reason in the Balance, Defeating Darwinism by Opening Minds* and the recently released *Objections Sustained* have become rallying points for Christian scholars across the academic spectrum. Johnson has addressed university audiences around the country, sometimes on his own, often in debate with a leading proponent of evolution. He has even addressed in private session entire science, law, and philosophy departments at top universities. Well, just who is Phillip Johnson and how does he rate such attention?

Johnson was raised in a nominally Christian family, but he grew to become a convinced skeptic of the faith. This process was greatly aided by his education, first as an undergraduate at Harvard and then at the University of Chicago Law School where he graduated first in his class. Johnson became

convinced that people were basically good, education would solve whatever problems you had, the stuff of Sunday school was okay but mythology, and he could achieve success by thinking for himself and absorbing the culture around him.

This is the enticing picture the academic community paints for students and Johnson bought it. But things began to unravel in his mid-thirties. He had achieved his goals. He served as law clerk for Supreme Court Chief Justice Earl Warren and held a distinguished professorship of law at UC Berkeley, but he lacked fulfillment. He was publishing papers nobody read, or ought to read. His marriage to a beauty queen fell apart and he was single parenting for awhile. The writings of C. S. Lewis had impacted him greatly, but he thought, "Too bad we can't believe in that anymore." Eventually he heard the gospel preached in a way that seemed plausible and attractive. Johnson envied the speaker's combination of commitment and fulfillment. "Do I have something so wonderful?" he questioned. Johnson said, "They believed it, I could too."

Johnson put his faith in Christ, but faced a dilemma. If the gospel is true, why are all the "intelligent" people agnostic? He prayed for insight. Beginning with a sabbatical at University College in London in 1987-88, Johnson embarked on an intellectual journey. This journey has developed into a project that has seen him publish four books, deliver hundreds of lectures on college campuses, and become the leader of the fledgling Intelligent Design movement over the last ten years. Primarily through his study of evolution, Johnson learned that the academic community's primary intellectual commitment is to the philosophy of naturalism. If the "facts" contradict materialistic conclusions, then the "facts" are either explained away, ignored, or just plain wrong.

Therefore, evolutionists like Richard Dawkins can say things like "Biology is the study of complicated things that give the appearance of having been designed for a purpose," and actually say it with a straight face. The appearance of design

is an illusion, you see, because we "know" that organisms evolved and the primary reason we "know" this is because naturalistic philosophy demands it.

Johnson's primary task seems to be continually provoking the scientific community into facing the reality of its naturalistic presuppositions. In earlier years, the scientific establishment was able to dismiss creationists and not officially respond. But when a tenured law professor from Berkeley starts messing with your head, people start answering back. The National Academy of Sciences has issued two publications in the last two years trying to stem the tide.{1} The cracks in Darwinian evolution are beginning to show.

What Could a Law Professor Say About Evolution?

What could a legal scholar possibly have to say about evolution? Many in the academic community have raised the same question as Phillip Johnson has visited their university. In his own words Johnson states: "I approach the creation-evolution dispute not as a scientist but as a professor of law, which means among other things that I know something about the ways that words are used in arguments."{2}

Specifically what Johnson noticed was that both the rules of debate about the issue as well as the word *evolution* itself were defined in such a way as to rule out objections from the start. Science is only about discovering naturalistic causes of phenomena, therefore arguing against the sufficiency of natural causes is not science! Also the "fact of evolution" is determined not by the usual definition of fact such as collected data or something like space travel which has been done, but as something arrived by majority vote! Steven J. Gould said, "In science, fact can only mean 'confirmed to such a degree that it would be perverse to withhold provisional assent.'"{3}

In the early chapters of *Darwin on Trial*, Johnson does an excellent job of summarizing the evidence that has been around for decades calling Darwinian evolution into question. These include problems with the mechanism of mutation and natural selection, problems with finding transitional fossils between major groups when they should be numerous, problems with the molecular evidence for common descent, and severe problems with any scenario for the origin of life.

In a chapter titled "The Rules of Science" Johnson excels in illuminating the clever web evolutionists have drawn to insulate evolution from criticism.{4} In order to limit discussion to naturalistic causes, science is defined in purely naturalistic terms. In the Arkansas creation law decision, Judge Overton said science was defined as being guided and explained by natural law, testable, tentative, and falsifiable. Overton got this from the so- called expert testimony of scientists collected for the trial by the ACLU. These criteria were used against creation on the one hand to say that a creator is not falsifiable, and also that the tenets of creation science were demonstrably false. How can something be non-falsifiable and false at the same time?

The conflict enters in when one realizes that creation by Darwinist evolution is as un- observable as creation by a supernatural creator. No one has ever observed any lineage changing into another and the few fossil transitions that exist are fragmentary and disputable. "As an explanation for modifications in populations, Darwinism is an empirical doctrine. As an explanation for how complex organisms came into existence in the first place, it is pure philosophy."{5}

In a chapter titled "Darwinist Religion" Johnson points out that despite the claims of scientists that evolution is secular, it is loaded with religious and philosophical implications. Most definitions of evolution emphasize its lack of purpose or goal. This makes evolution decidedly non-purposive in contrast to a theistic, purposive interpretation

of nature. If it is the philosophic opposite of theism, evolution must be religious itself. Darwin himself constantly argued the superiority of descent with modification over creation. If scientific arguments can be made against theism, why can't scientific arguments be made for theism?

Darwin on Trial continues to sell, to be read, and to influence those open to consider the evidence. Since Johnson is not a scientist his book is highly readable to the educated layman. If you have never picked it up, you owe it to yourself to read what has become a classic in the creation/evolution controversy.

Johnson Extends His Case against Evolution into Law and Education.

Over the years of speaking on the creation/evolution issue I have been asked many times why people get so upset over this issue. If it is just a question of scientific accuracy, why does it produce such emotional extremes? The answer, of course, is that the creation/evolution debate involves much more than science. At question is which worldview should hold sway in making public decisions.

In Phil Johnson's second book, *Reason in the Balance*, he makes this very point when he says, "What has really happened is that a new established religious philosophy has replaced the old one. Like the old philosophy, the new one is tolerant only up to a point, specifically, the point where its own right to rule the public square is threatened."{6}

The old philosophy Johnson speaks of is the theistic or Judeo-Christian worldview and the new philosophy is the materialist or naturalistic worldview. Johnson has referred to *Reason in the Balance* as his most significant and important work. That is because it is here that he lays the all important philosophical groundwork for the scientific, legal, and educational battleground of which the creation/evolution

controversy is only a part.

That we no longer live in a country dominated by Judeo-Christian principles should be inherently obvious to most. But what many have missed is the concerted effort by the intellectual, naturalistic community to eliminate any possibility of debate of the worthiness of their position. On page 45 Johnson says,

> *"Modernist discourse accordingly incorporates semantic devices—such as the labeling of theism as religion and naturalism as science—that work to prevent a dangerous debate over fundamental assumptions from breaking out in the open. As the preceding chapter showed, however, these devices become transparent under the close inspection that an open debate tends to encourage. The best defense for modernist naturalism is to make sure the debate does not occur."*{7}

Johnson is quick to point out that there is not some giant conspiracy, but simply a way of thinking that dominates the culture, even the thinking of many Christians.

Therefore, in the realm of science when considering the important question of the existence of a human mind, only the biochemical workings of the brain can be considered. Not because an immaterial reality has been disproved, but because it is outside the realm of materialistic science and therefore not worth discussing. Allowing the discussion in the first place lays bare a discussion of fundamental assumptions, the very thing that is to be avoided.

In education, "The goal is to produce self-defining adults who choose their own values and lifestyles from among a host of alternatives, rather than obedient children who follow a particular course laid down for them by their elders."{8} The reason, of course, is if God is outside the scientific discussion of origins, then how we should live must also exclude any absolute code of ethics. This also precludes the

underlying assumptions from being discussed.

In law, naturalism has become the established constitutional philosophy. Rather than freedom *of* religion, the courts are moving to a freedom *from* religion. The major justification is that "religion" is irrational when it enters the domain of science or a violation of the first amendment in public education. "Under current conditions, excluding theistic opinions means giving a monopoly to naturalistic opinions on subjects like whether humans are created by God and whether sexual intercourse should be reserved for marriage."{9} What then are the strategies for breaking the monopoly?

Can Darwinism Be Defeated?

The main thing Christian parents and teachers can do is to teach young thinkers to understand the techniques of good thinking and help them tune up their baloney detectors so they aren't fooled by the stock answers the authorities give to the tough questions.{10}

So says Phillip Johnson in his recent book, *Defeating Darwinism.* (For a fuller review see Rick Wade's article, Defeating Darwinism: Phil Johnson Steals the Microphone.) Johnson is at his best here, relaying the many semantic and argumentative tricks used to cover up the inadequacies of Darwinism. In the chapter "Tuning Up Your Baloney Detector," Johnson introduces the reader to examples of the use of selective evidence, appeals to authority, ad hominem arguments, straw man arguments, begging the question, and lack of testability. This chapter will give you a good grasp of logical reasoning and investigative procedure.

Johnson also explains the big picture of his strategy to weaken the stranglehold of Darwinism on the intellectual community. He calls it *the wedge*. Darwinism is compared to a log that seems impenetrable. Upon close investigation, a small crack is discovered. "The widening crack is the important but

seldom recognized difference between the facts revealed by scientific investigation and the materialist philosophy that dominates the scientific culture."{11} In order to split the log, the crack needs to be widened. Inserting a triangular shaped wedge and driving the pointed end further into the log can do this. As the wedge is driven further into the log, the wider portions of the wedge begin widening the crack.

Johnson sees his own books as the pointed end of the wedge, finding the crack and exposing its weaknesses. Other books in these initial efforts would certainly include the pioneering works of Henry Morris,{12} Duane Gish,{13} Charles Thaxton,{14} and even the agnostic Michael Denton.{15} Following close behind and fulfilling the role of further widening the crack are the works of J. P. Moreland,{16} Michael Behe,{17} and William Dembski.{18} What is needed now to widen the crack further and eventually split the log are larger numbers of theistic scientists, philosophers, and social scientists to fill in the ever widening portions of the wedge exposing the weaknesses of naturalistic assumptions across the spectrum of academic disciplines.

Here Johnson's strategy meshes nicely with Probe Ministries. Much of our energy is spent educating young people in a Christian worldview through Mind Games Conferences, the ProbeCenter in Austin, Texas, and our website (www.probe.org). We share with Johnson the joy of encouraging and opening doors for young people in the academic community. Johnson says,

> *"If you know a gifted young person, help him or her to see the vision. Those who are called to it won't need any further encouragement. Once they have seen their calling, you had better step out of the way because you won't be able to stop them even if you try."{19}*

There is also an inherent risk in all this. Teaching young Christians to think critically and have the courage to join

this exciting and meaningful cultural battle means they will also begin to examine their own faith critically. Some may even go through a period of doubt and deep questioning. While this may sound threatening, we shouldn't shy away. If Jesus truly is the way, the truth, and the light then any "truth" exposed to the light will endure. Our children will be stronger having put their faith to the test. The reward of possibly making a directional change in our downward spiraling culture is worth the risk.

Johnson Responds to the Intellectual Elite

One of the reasons that Phillip Johnson has become a leader in the Intelligent Design movement is the combined effect of his tenured position on the law faculty of the prestigious University of California at Berkeley and his deftness and sheer enjoyment in taking on the power brokers within the established halls of academia. Johnson has traveled extensively in the U.S. and abroad. He has also lectured and debated before university audiences and faculties. His knowledge of debate, concise prose, and his likeable demeanor allows him to bring the issues to the table skillfully. Many are able to think clearly about these issues for perhaps the first time.

Another avenue Johnson has pursued with great success has been to write articles and review books for some of the leading magazines and newspapers in the country. Johnson's fourth book, *Objections Sustained: Subversive Essays on Evolution, Law & Culture,*{20} is a collection of his essays since the publication of *Darwin on Trial* in 1991. While most of the essays in the book were originally published in either the journal *First Things* or the paper *Books and Culture*, Johnson's pen has also been found in the pages of *The Atlantic, The Wall Street Journal, The Washington Times, The New Criterion,* and many other national and local magazines and newspapers. He has

openly challenged some of the leading spokesmen for naturalistic evolution such as Stephen J. Gould and Richard Lewontin of Harvard, Richard Dawkins of Oxford University, and Daniel Dennet from Tufts University.

The point of all this is to draw the Darwinists out into the open where the debate can be seen and heard by all who are interested. Previously, creation was routinely dismissed as religion, but Johnson is not so easily swept aside since he has been able to expose the house of cards behind the bluster of Darwinism. The debate has crept more and more out in the open.

Two examples come to mind. First, the National Association of Biology Teachers (NABT) was caught with its hand in the cookie jar. In 1995, they released a statement about evolution describing it as, among other things, unsupervised and impersonal. Such theological/philosophical concepts should have no place in a "scientific" statement. A storm of controversy sparked both within and outside the teachers' ranks culminated in a reconsideration of the statement by the NABT board. At first the board voted unanimously to uphold the statement, and then a few days later, voted to remove the offending words. The *New York Times* remarked that "This surprising change in creed for the nation's biology teachers is only one of many signs that the proponents of creationism, long stereotyped as anti-intellectual Bible-thumpers, have new allies and the hope of new credibility."{21}

Second, the prestigious National Academy of Sciences has published two official publications attacking creationism{22} and supporting the teaching of evolution.{23} Rather than taking its critics head-on, these two books timidly revert to old and tattered evidences and appeals to authority. For instance, the National Academy boldly asserts that "there is no debate within the scientific community over whether evolution occurred, and there is no evidence that evolution has not occurred."{24}

Science and Creationism says on the one hand, “Scientists can never be sure that a given explanation is complete and final.”{25} But evolution cannot really be questioned because “Nothing in biology makes sense in biology except in the light of evolution.”{26} Such obfuscation is now officially in the open arena—precisely where Johnson has been trying to force it to appear. The next ten to fifteen years promise to be exciting. I hope you continue to read Phillip Johnson and observe the ever broadening wedge drive deeper into the chinks of the Darwinian armor.

Notes

1. National Academy of Sciences, *Teaching About Evolution and the Nature of Science* (Washington, D. C.: National Academy Press, 1998), 140. Available online at http://www.nap.edu/readingroom/books/creationism/. National Academy of Sciences, *Science and Creationism: A View from the National Academy of Sciences* (Washington D. C.: National Academy Press, 1999), 35. Available online at http://www.nap.edu/readingroom/books/evolution98.

2. Phillip Johnson, *Darwin On Trial* (Downers Grove, IL: InterVarsity Press, 1991), 8.

3. Stephen J. Gould, “Evolution as Fact and Theory” in *Hen’s Teeth and Horse’s Toes* (New York: W. W. Norton, 1983), 255.

4. Johnson, *Darwin on Trial,* 111-122.

5. Ibid., 115.

6. Phillip E. Johnson, *Reason in the Balance: The Case Against Naturalism in Science, Law and Education* (Downers Grove, IL: InterVarsity Press, 1995), 37.

7. Ibid., 45.

8. Ibid., 157.

9. Ibid., 29.

10. Phillip E. Johnson, *Defeating Darwinism by Opening Minds* (Downers Grove, IL: InterVarsity Press, 1997), 116.

11. Ibid., 92.

12. Henry Morris, *Scientific Creationism* (San Diego: Creation-Life Publishers, 1974).

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15. Michael Denton, *Evolution: A Theory in Crisis* (Bethesda, MD: Adler and Adler, 1986).

16. J. P. Moreland, ed., *The Creation Hypothesis: Scientific Evidence for an Intelligent Designer* (Downers Grove, IL: InterVarsity Press, 1994).

17. Michael Behe, *Darwin's Black Box: The Biochemical Challenge to Evolution* (New York: The Free Press, 1996).

18. William A. Dembski, *The Design Inference: Eliminating Chance through Small Probabilities* (New York: Cambridge University Press, 1998.) And, William A. Dembski, ed., *Mere Creation: Science, Faith and Intelligent Design* (Downers Grove, IL: InterVarsity Press, 1998).

19. Johnson, *Defeating Darwinism,* 96.

20. Johnson, *Objections Sustained: Subversive Essays on Evolution, Law & Culture* (Downers Grove, IL: InterVarsity Press, 1998).

21. Quoted in Johnson, *Objections Sustained*, p. 88.

22. *Science and Creationism,* see note 1.

23. *Teaching about Evolution and the Nature of Science,* see note 1.

24. Ibid., 4.

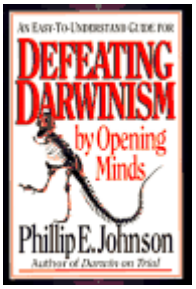
25. *Science and Creationism,* 1.

26. Ibid., ix.

Defeating Darwinism

Introduction

What's this? A lawyer debating philosophy with scientists? If you keep close tabs on the creation/evolution debate, you've probably already heard the name Phillip Johnson. If not, but you're interested in seeing how one Christian is challenging the dogma of Darwinism, you'll want to know about this man.



Phillip Johnson is a law professor at the University of California, Berkley. In 1997 InterVarsity Press published *Defeating Darwinism by Opening Minds*, Johnson's third book in his debate with naturalistic evolution. His first book, *Darwin On Trial*, examined the scientific evidence for evolution and launched a series of lectures and debates across the United

States and overseas in universities and on radio and television. His second book, *Reason in the Balance*, examined the influence of naturalism in the spheres of science, law, and education. *Defeating Darwinism* brings his case to high school and early college-level students and their parents.

So, what prompted a law professor to take on the evolutionists? It seems that Johnson became aware of a significant difference between the way the theory of evolution is presented to the public and the way it's discussed among scientists. To the general public, evolution is presented as being settled with respect to the really important questions. Among scientists, however, there is still no consensus as to how evolution could have occurred. As another author said, evolution is a theory in crisis. Professor Johnson studied the literature closely and concluded that what keeps the "evolution-as-fact" dogma alive is not scientific evidence at all, but rather a commitment to the philosophy of naturalism.

Naturalism is the belief that everything that exists is on the same basic level, that of nature. There is no God who created the universe whether in six days or in 40 million years.

One needs to be cautious here. Many scientists believe in God. However, the rule of the day in the laboratory and the classroom is a commitment to the philosophy of naturalism or at least to practical naturalism. Consequently, whether there is a God or not, no reference can be made to Him in the realm of scientific study.

Two reasons come to mind to explain why Johnson has received such a wide hearing in secular academia. First, he keeps the focus on evolution, *not* on a particular theory of creation. This is annoying to evolutionists. But Johnson knows that as soon as he allows his views to be put under the spotlight, the debate will be over. Why? Because the evolutionists will immediately label his views as "religious," and he will be dismissed out of hand. Second, he is a legal scholar with

years of experience in the logical analysis of evidence. He has the skill to carefully dissect the arguments of evolutionists, show their weaknesses, and reveal their unargued presuppositions.

In this essay we'll take a closer look at Johnson's book *Defeating Darwinism*. We'll see how evolution gained dominance as a theory of origins, and we'll learn how Johnson exposes its UNscientific foundations. I urge you to get a copy of this book even if science isn't your area, just to learn one way to engage our culture in the realm of ideas.

Where's the Beef?

In his new book, *Defeating Darwinism By Opening Minds*, Phillip Johnson seeks to help high-school and college students and their parents evaluate the claims of Darwinism.

In his first book, *Darwin on Trial,* Johnson described the evidential problems with evolution in some detail. In *Defeating Darwinism*, he simply notes that possible transitional forms in the fossil record are very few in number and they are not found where fossil evidence is most plentiful. The problem, he says, is that textbooks and museums often present evidence in a way that implies there is more evidence available than there really is. As an example, Johnson points to an exhibit in San Francisco called the "Hard Facts Wall" which fills in gaps in the fossil record with imaginary ancestors. Says Johnson:

> *Visitors to the museum at first take the exhibit at face value; after I explain it to them, they are astonished that a reputable museum would commit such a deception. But the museum curators are not consciously dishonest; they are true believers who are just trying too hard to help the public get to the right' answer.(1)*

Even though the physical evidence is not there, and there is

no known mechanism for the transition from one type of organism to another, the scientific community clings to evolution as fact. The reasoning seems to be this: Since science studies the natural order, scientific theory must remain within naturalistic bounds. Since neo-Darwinism is the best naturalistic theory, it *must* be true. This commitment extends beyond simply influencing scientific study; it is indoctrinated into students as the way things are. Johnson says that, "When students ask intelligent questions like 'Is this stuff really true?' teachers are encouraged or required not to take the questions seriously."(2)

A fifteen-year-old high school student found out about the power of Darwinist orthodoxy when he challenged a requirement to watch a program on public television which promoted the "molecule to man" theory as fact. When school administrators showed an inclination to go along, the bottom fell out. Johnson stated, "the Darwinists, . . . flooded the city's newspapers with their letters. Some of the letters were so venomous that the editorial page editor of the Denver Post admitted that her liberal faith had been shaken."(3) When CBS carried the story, a prominent evolutionist made the teenager out to be an enemy of education. Orthodoxy is not to be questioned.

One of the most significant factors in establishing the reign of evolution was the movie *Inherit the Wind*, the imaginative re-telling of the story of the Scopes "Monkey Trial" of 1925. The trial is presented as a David-and-Goliath match between the few reasonable and enlightened advocates of progress and the forces of ignorance and oppression who are shackled by their "Old Time Religion." The important players were caricatured and significant details were completely falsified, but the point was made: religion can co-exist with science, but only if it minds its own business.

The book *Defeating Darwinism* is an important contribution not only because of the questions it raises about evolution, but

also because it teaches the reader *how* to think about issues. Next, we'll look at some fallacious arguments evolutionists use.

Baloney Detectors Wanted

In his book *Defeating Darwinism by Opening Minds*, Phillip Johnson analyzes the role *Inherit the Wind* played in our thinking about the relation of religion and science. This was the play—and later the movie—which retold the story of the Scopes "Monkey Trial" of 1925. One significant character who only appeared for a few minutes was the Radio Man, the radio announcer who made a live broadcast from the courtroom.

Near the end of the play, when the prosecuting attorney launches into a long speech denouncing the evils of evolution, the radio program director decides that the attorney's speech has become boring, and Radio Man turns off the microphone. This is the only microphone in the courtroom. Johnson sees this move as symbolic. He says: "That is why what happened in the real-life Scopes trial hardly matters; the writers and producers of *Inherit the Wind* owned the microphone, making their interpretation far more important than the reality."(4)

This example illustrates one of several logical fallacies evolutionists sometimes commit which Johnson exposes in his chapter "Tuning Up Your Baloney Detector." This first fallacy is the selective use of evidence. Radio Man could broadcast what *he* wanted people to hear without giving the other side equal time. What we hear about today, says Johnson, are the evidences which seem to support evolution. What we don't hear about is the absence of significant evidence in the fossil record as a whole. Seeing the entire picture can, and should, easily give one doubts about the story we're now being told by the evolutionists.

Another fallacy evolutionists sometimes employ is the *ad hominem* argument, or the argument "against the man." If a

doubter can be labeled a “fundamentalist” or a believer in “creation science” (meaning creation in six, twenty-four hour days), his doubts can be set aside on the grounds of religious prejudice.

Johnson cautions us to watch out also for “vague terms and shifting definitions.” The word *evolution*, for example, can mean different things. Are we speaking of microevolution, small changes within a species, or are we talking about macroevolution, major mutations from one type of organism to another? As Johnson says, “That one word *evolution* can mean something so tiny it hardly matters, or so big it explains the whole history of the universe.”(5)

Johnson notes that fewer than 10 per cent of Americans actually believe that “humans . . . were created by a materialistic evolutionary process in which God played no part.”(6) Nonetheless, the vast majority who doubt this are not allowed to think for themselves on the matter of the fact of evolution. Rather than being educated to think for themselves, students are indoctrinated with the dogmatic claims of evolutionists.

In response, Johnson urges students to discern whether what they are being taught is simply assumed or whether it is based on real evidence. When evolutionists insist on the *fact* of evolution without having concrete evidence, and without having any idea of the *mechanism* of evolution, they’re revealing a faith commitment.

Although Johnson’s particular strength is in exposing the flaws in evolutionists’ arguments, he also presents a positive case for intelligent design in the creation of life. We’ll look at that subject next.

Intelligent Design

When Charles Darwin presented his theory of evolution, little

was known about what goes on inside living cells. They were "black boxes," objects the insides of which were unknown. With the development of molecular biology, scientists have come to realize that cells are extremely complex.

In his book, *Defeating Darwinism by Opening Minds*, Phillip Johnson introduces the reader to some exciting new discoveries in biology which he believes deal a significant blow to Darwinian evolution.

Johnson says it's now recognized that there's information encoded in cells which can't be reduced to matter. The evolutionist Richard Dawkins writes,

> *Each nucleus . . . contains a digitally coded database larger, in information content, than all 30 volumes of the Encyclopedia Britannica put together. And this figure is for each cell, not all the cells of the body put together."(7)*

This information is distinct from the physical structure in the same way that the message of a book is distinct from the ink and paper which records it. The question biologists must answer is, Where did this genetic information come from? Information implies intelligence. It can't be explained by physical mutations and natural selection. This is a serious problem for Darwinists.

Another finding which also is a major problem for Darwinists is what is called the irreducible complexity of living organisms. Johnson explains what this means: "Molecular mechanisms . . . are made up of many parts that interact in complex ways, and all the parts need to work together. Any single part has no useful function unless all the other parts are also present."(8) The eye, for example, requires the coordinated working of many different parts to do its work. Each of these parts, however, can accomplish nothing on its own. That being the case, why would the individual parts have been preserved through time by natural selection? If there

were gradual development, there must have been some intelligence behind it to know what to retain and what to destroy.

These two factors, then—information content and irreducible complexity—are strong physical evidence for intelligent design. Information implies intelligence, and complexity can't be accounted for by mutation and selection. It requires design.

In spite of the evidence, however, Darwinists still insist that the origin of life can't lie in supernatural creation. As we noted on earlier, the key issue for them is their prior commitment to a naturalistic philosophy. As geneticist Richard Lewontin said, "[W]e are forced by our *a priori* adherence to material causes to create an apparatus of investigation and a set of concepts that produce material explanations, no matter how counter-intuitive, . . . Moreover, that materialism is absolute, for we cannot allow a Divine Foot in the door."(9)

It's Phillip Johnson's project to expose this prior commitment and to convince evolutionists to acknowledge it. Now we'll turn to look at Johnson's overall project and see what lessons we can draw from it.

Evaluation

Johnson calls his basic strategy for addressing the issue of evolution, the "wedge." He wants to drive a wedge into the "log" of scientific materialism so as to separate the facts of scientific investigation from the naturalistic philosophy which dominates science.

One of the criticisms of Johnson's work is that he wants to throw the baby out with the bathwater. Theistic evolutionists, for example, say that one needn't accept a materialistic theory of evolution to recognize the gradual development of life on our planet. Indeed, Johnson seems to be fighting two

battles: the first against those who insist upon doing science in a thoroughgoing naturalistic framework; the second against macroevolution of any sort.

I noted earlier that Johnson argues against separating the so-called *fact* of evolution from the *mechanism* of evolution. He insists that before we can know *that* evolution happened, we need to know *how* it happened. This certainly isn't a universal logical principle. I don't need to know precisely how a camera and film produce pictures to know that they do. Nonetheless, Johnson is correct in pressing for conclusive fossil evidence for gradual change or for a plausible explanation for sudden macromutations.

Johnson's challenge to the scientific community boils down to this question: "What should we do if empirical evidence and materialist philosophy are going in different directions?"(10) In other words, Are you willing to abandon a theory of purposeless processes if the evidence weighs against such a theory? When scientists are willing to do this, then science will be free to discover—as far as it's able—what nature is really like apart from personal prejudices.

It's evident that Johnson has struck a nerve in the scientific community. He's debated well-known scientists and has spoken at prestigious universities across America and overseas. He has not allowed opponents to pin him down on a particular theory of creation and then to dismiss him with the usual "religion vs. science" argument.

Johnson notes that Marx, Freud, and Darwin were three of the most influential men in this century. Marxism and Freudianism have both passed into history. Says Johnson, "I am convinced that Darwin is next on the block. His fall will be by far the mightiest of the three."(11)

But this will only happen, he says, if we "step off the reservation"(12) and do the work necessary to prove our case.

We must encourage our young people to take up the challenge of thinking for themselves on this matter and not be intimidated by those who wish to maintain the status quo. This will involve a risk, but as Johnson says: “We will never know how great the opportunity was if we are afraid to take the risk.”(13)

This book is valuable for any Christian who wants to learn how to think critically, whether the reader is scientifically-minded or not. Here we find a model for turning the tables on those who want to keep us on the defensive. If we have to give an answer for what we believe, it’s only fair that our critics should do the same. *Defeating Darwinism* is an example of how to get them to do it.

Notes

1. Phillip E. Johnson, *Defeating Darwinism by Opening Minds* (Downers Grove, Ill.: InterVarsityPress, 1997), 38.

2. Ibid., 54.

3. Ibid., 35.

4. Ibid., 33.

5. Ibid., 45.

6. Ibid., 10.

7. Ibid., 77.

8. Ibid.

9. Ibid., 81.

10. Ibid., 114.

11. Ibid., 113.

12. Ibid., chap. 8.

13. Ibid., 118.

A Darwinian View of Life

Probe's Dr. Ray Bohlin reviews Richard Dawkins' anti-theistic book, A River Out of Eden: A Darwinian View of Life*, showing the holes in Dawkins' arguments.*

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.