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Role Models in the Creation/Evolution Controversy

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Pittours State University Gradeste Bulletin 23 (1989): 5-14

Creation/Evolution Controversy Role Models in the

Donald Wayne Viney

conflict.² Nevertheless, the idea persists both in the popular imagination and has as often been one of reconciliation and compromise as of discord and and theology overstates the case. The relationship between science and religion certain natural phenomena and that the success of one explanation entails the and Evolution are that science and religion are in the business of explaining port a view that would make evolution and creation irreconcilable hypotheses (2) to demonstrate that the intellectual landscape since Darwin does not sup some of the strands of argument that lend support to the wartare motif and antagonists. The Creation/Evolution controversy, as it is presented in popular sometimes in the scientific community that science and religion are, at bottom the warfare of science with theology.¹ White's notion of a warfare between science tion controversy, they are also at the root of much of what Andrew White called failure of the other. These assumptions not only inform the Creation/Evolu literature, reinforces this belief. The purposes of this paper are (1) to unravel Two of the underlying assumptions in the controversy over Creation Science A humorous treatment of the "warfare" between science and theology is found

as his model that thunder is caused by the clouds turning somersaults. He uses Strepsiades a sieve." Socrates explains that the clouds cause rain. He goes on to demonstrate neither Zeus nor any of the other gods exist. Strepsiades is incredulous for he the causes of rain, thunder, and lightning. Socrates flippantly announces that philosopher Socrates instructs an old country gentleman named Strepsiades on had been brought up to believe that rain was caused by "Zeus pissing through in a play by Aristophanes called The Clouds, first produced in 423 BCE. The

Strepsiades: You're right by Apollo! It plays up and churns around Socrates: It's a public holiday. You've stuffed yourself with meat balls. and the meat balls boom like thunder, and the noise is dreadful You have indigestion. What does your inside do? Rumble bowels begin to open it thunders BURP fortissimo, just like the first, piano, burp. Then, mezzoforte, Burp, Burp. And when my clouds.

A dramatic demonstration of the lightning rod's potential for "getting out of the mighty hand of God" and for saving property and lives came in 1767, fifteen years after the rod's invention. Officials at the church of San Nazaro in Brecia ignored repeated advice to erect a lightning rod atop the steeple. Several thousand pounds of gunpowder, stored in the Church's vaults, exploded when the Church was struck by lightning. One sixth of the city was destroyed and an estimated three thousand lives were lost in the fire. ⁵ The Creation/Evolution controversy is another example of apparently com- peting explanations between science and religion. In this case, however, the phenomena to be explained are biological, not meteorlogical. But the principle is the same. In broad outline, the assumption is that either Darwin (or some variant of Darwinism) or the Bible explain the variety and distribution of species around the globe. If Darwin wins then the Bible is wrong. The Creation Scien- tists add another assumption that aggravates the problem and elevates the stakes.	 Oh! there is no getting out of the mighty hand of God. For I cannot believe that in the whole town of Boston, where so many iron points are erected, there is so much as one person, who is so weak, so ignorant, so foolish, or, to say all in one word, so atheistical, as ever to have entertained a single thought that it is possible, by the help of a few yards of wire, to get out of the mighty hand of God.⁴ The Reverend Prince apparently saw lightning, not as a natural phenomena, but as the power of God. Likewise, he attributed the Boston earthquake to divine electricity—the theological explanation collapses. Imagine Reverend Prince's indignation could he have foreseen modern theories of plate tectonics that explanation theories of plate tectonics that explanation theories in the power of God. 	 Socrates: Consider then: if from so small a belly so great a blast can come, its only reasonable that air, which has no boundaries can make loud thunder. That's why we use the same name in both cases—wind! Socrates concludes by explaining that lightning is the natural result of a sirocco trapped inside clouds, inflating them like balloons and igniting itself through friction. The conflict between science and religion is evident. If rain, thunder, and lightning are caused by natural processes, then Zeus cannot be invoked to explain them and he becomes otiose, or worse, non-existent. The exchange between Socrates and Strepsides brings to mind the controversy over Benjamin Franklin's invention of the lightning rod in 1752. A few theologians and ministers around the world condemned Franklin's invention as a way of trying to harness the power of God. When earthquakes hit Massachusetts in 1755, the Rev. Thomas Prince attributed them to God's displeasure over the many lightning rods that had appeared around the city. Prince proclaimed to his congregation:
"It is not the case that both S and N." The Creationist's own definitions fail to support the thesis that evolution and creation are contradictories. Indeed, a good case can be made that the thesis "not-S and N" is the position commonly called theistic evolution, a view that combines belief in God and belief in evolution. Surprisingly, Morris and Parker admit that theistic evolution is possible. They add the qualification that evolu- tion is to be judged by scientific criteria whereas theistic evolution is to be judged by theological criteria. ⁶ What is this, however, but an admission that evolu- is not inherently atheistic? Since the time of Darwin, some version of theistic evolution has appealed to persons informed by biological science and theistic religion. Darwin himself struggled with the problem and often felt the pressure of the dilemma, the choice between a "scientific" and a religiously based explanation. Indeed, there is no	<pre>cesses in the present." Morris and Parker claim that these two views are the only possibilities. But this is incorrect. Let S = "the universe is self-contained" and let N = "the origin and development of complex systems is solely explained by natural processes, etc." Then, according to the above definitions:</pre>	They say that if evolution wins, atheism wins. In the words of Henry Morris and Gary Parker, two well-known advocates of Creation Science, "The Evolu- tion Model, by its very nature, is an atheistic model" The parallel with <i>The</i> <i>Clouds</i> and the story of the lightning rod is nearly exact. As a point of historical fact (as opposed to Aristophanes' parody), Socrates <i>was</i> accused of being an atheist, although he denied the charge. And we have already seen that Reverend Prince associated the belief that God's power could be controlled by the light- ning rod with "atheistical" thinking. Although the Creation/Evolution controversy is fueled by the apparent con- flict between scientific and theological explanations, the evidence provided that a real conflict exists is remarkably poor. For example, Morris and Parker claim that evolution and creation are contradictories. Evolution, they say, "assumes that the universe is self-contained, and that the origin and development of all its complex systems can be explained solely by time, chance, and continu- ing natural process, innate in the very structure of matter and energy." On the other hand, creation "maintains that the universe is <i>not</i> self-contained, but that it must have been created by processes which are not continuing as natural pro-

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sity as inadequate. It is the explanations of the Special Creationists that, time tion. However, it should be noted that the theory of Special Creation as Dar-Here we see in clearest terms the mind of Darwin at work. The phenomenon and again, Darwin targets in The Origin of Species (1859). One example will suf than they have with Creation Scientists. inquiry, Special Creationists have more in common with modern evolutionists that, in terms of their understanding of evolution and its relation to scientific tween Special Creationists and Creation Scientists can be expressed by saying tionists disagree on whether evolution is scientific.⁸ The theoretical distance be (1792-1871) and William Whewell (1794-1866), two of the outstanding to meet the demands of scientific standards as outlined by John Herschel It is instructive that the arguments of the Origin are framed in such a way as disagreement concerning the question whether evolution is a scientific hypothesis do not make these concessions. Indeed, what divides the Special Creationists of geology and paleontology, the Special Creationists of Darwin's day had regoes by the name "Creation Science." Because of the advances in the sciences win's contemporaries developed it has almost nothing in common with what would not place creatures in environments ideally suited for them. Darwin was had no explanation beyond an appeal to the mystery of divine fiat for why God to migrate to the islands since salt-water kills them. The Special Creationists islands. Darwin's theory explains this by saying that the animals had no way to be explained is the absence of frogs, toads, and newts on so many oceanic fice to illustrate the point: between evolutionists and creationists. In our day, Creation Scientists and evolu-In Darwin's day the scientific status of evolution was not a point of contention philosophers of science of their day, both of whom were Special Creationists. from the Creation Scientists is more profound and involves a fundamental by several orders of magnitude, than a few thousand years. Creation Scientists jected a literal reading of Genesis and accepted the idea that the earth is older, he gradually came to see the prevailing theistic theory of nature's biological diver-As Darwin made his travels and the idea of evolution took shape in his mind on my view we can see that there would be great difficulty in their and have multiplied so as to become a nuisance. But as these animals not have been created there, it would be difficult to explain.9 any oceanic island. But why, on the theory of creation, they should transportal across the sea and therefore why they do not exist on and their spawn are known to be immediately killed by sea-water, frogs have been introduced into Madeira, the Azores, and Mauritius, it seems that islands are peculiarly well fitted for these animals; for islands cannot be accounted for by their physical conditions; indeed [The] general absence of frogs, toads, and newts on so many oceanic the natural world.¹² not recognize the role of chance, accident, misfortune, and tragedy in shaping pose that a theology which affirms God as the creative ground of existence could arranging power of a perfectly benevolent deity.¹¹ Darwin's mistake was to supviable, illadapted animal [is] divinely decreed" discredits the idea of the all a world order in which every monstrosity, every suffering, every birth of an untheology by making the problem of natural evil unmanageable. Darwin was right: the deterministic assumption. He also argues that the denial of chance ruins exclusion of the role of chance in explaining evolutionary development. Hartsall-controlling power capable of unilaterally determining the course of nature. a kind of suspension of belief in the absence of sufficient evidence.10 presupposition of the dominant theology of the age which pictured God as an Darwin adopted T. H. Huxley's term and called himself an agnostic, to express horne notes that evolutionary theory can dispense with, and is better off without, When this view of God is grafted onto a philosophy of nature, the result is an had less to do with his biological discoveries than with his acceptance of the embarrassment to a God who was at once perfectly good and limitless in power. For Darwin, the vast amount of suffering and cruelty in nature would be an woods & smiling fields." He was particularly sensitive to what theologians call evolution. Darwin spoke of the "quiet war of organic beings, going [on] in peaceful as much because of his sensitivity to the suffering animals as to the theory of and atheism. It is true that Darwin came to reject Christianity. But this was of Special Creation. Brown summarizes Darwin's religious attitudes in later life: Nevertheless, Darwin never entirely gave up on belief in God. Frank Burch natural evil-suffering resulting from natural causes as opposed to human agency. facts of nature than the theory of Special Creation, he did not equate evolution Charles Hartshorne argues that Darwin's reluctance to embrace theistic belief If Darwin believed his theory of evolution was better at accounting for the unable or unwilling to commit himself on such imponderable quesof the time he was basically agnostic-in sympathy with theism but undogmatic atheist; at high tide he was a tentative theist; the rest never entirely ceased to ebb and flow, nor did his evaluation of the be described as being in what he himself termed a "muddle." tions. Overall his thought regarding theological matters could best merit of such beliefs. At low tide, so to speak, he was essentially an \cdots his beliefs concerning the possible existence of some sort of God

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question that the main rival to Darwin's theory was the theory of Special Crea.

anomalies; but he did believe that his theory had more answers than the theory

(1810-1888) strove for a compromise with evolutionary theory. According to ing of reasonable people. Others, like the American botanist Asa Gray a positivistic and materialistic stance that effectively excluded God from the thinkscientific community. Some thinkers, like T. H. Huxley (1825-1895) adopted The theological muddle in which Darwin found himself was mirrored in the

not so bold as to claim that his theory had all the answers to nature's biologica

Alfred North Whitehead's idea that the clash of doctrines is not a disaster but an opportunity expresses the attitude of many nineteenth century theologians toward evolutionary theory.human eye, and that it is t are typical of the literatu have been added sophistr alleged incompatibility by demar- cating their respective boundaries. The names of Frederick Tennant (1866-1957), William Temple (1881-1944), and Pierre Teilhard de Chardin (1881-1955) come immediately to mind. These thinkers represent the dominant trends of twen- tieth century theology that see no final conflict between evolution and crea- tion. So dominant is this trend that Roland Mushat Frye can write without fear of contradiction from his peers that "creation-science] is bad philosophy, bad science, is even more emphatic: "I say [creation-science] is bad philosophy, bad science, bad theology, and bad hermeneutics (textual interpretation), and no good thing The earth was flat a 24:1-2; Gen. 7:11);human eye, and that it is t are typical of the bitor the the more interested in the comparison of the bitor the twentieth century has insisted	·	
human eye, and that it is harmful to the morals of society. These same arguments are typical of the literature of Scientific Creationists of today (although there have been added sophistries about the unreliability of dating methods and the alleged incompatibility of the second law of thermodynamics and evolution). ²⁰ Bryan once again supposes that if Darwin wins, the Bible loses and that evolu- tion results in atheism. As Bryan would later announce at the Scopes trial, "I am more interested in the Rock of Ages than in the age of rocks." A very different view of evolution and the Bible is presented in Fosdick's reply to Bryan. Fosdick proposes to leave the scientific issues to the scientists and focus instead on Bryan's reading of the Bible. In a classic example of <i>reductio ad absur- dum</i> , Fosdick points out that if one takes one's science from the Bible, it is not only evolution that one must reject, but other well-established results of science. The cosmology of the Bible reflects the prescientific worldview of its writers. 24:1-2; Gen. 7:11); it was stationary (Ps. 93:1; 104:5); the heavens, like an upturned bowl, "strong as a molten mirror" (Job 37:18; Gen.	Christian, was pitted against Darrow the agnostic. 10 appreciate the actual op- ijons available, one should supplement the story of Bryan vs. Darrow with Bryan vs. Fosdick. Three years before the Scopes trial, Bryan had locked horns with one of the most well-known preachers of the day, Harry Emerson Fosdick (1878-1969). The New York Times solicited articles from both Bryan and Fosdick on their views of evolution and the Bible. ¹⁹ In his article, Bryan trotted out the standard arguments against evolution. He argued that evolution is mere guess work about human origins, that it is unBiblical, that there is a lack of transi- tional forms to confirm evolution, that evolution cannot explain things like the	all, is that the controversy has on several occasions become a <i>legal</i> confronta- tion. Few dramas in literary fiction can match the real life drama of the so-called Scopes Monkey Trial in Dayton, Tennessee in July 1925. John Scopes, a biology teacher, was accused of breaking a law in Tennessee prohibiting the teaching of evolution. William Jennings Bryan (1860-1925), three time candidate for the presidency of the United States, served on the prosecuting team. The defense was led by Clarence Darrow (1857-1938), one of America's greatest lawyers. Dur- ing the trial, Darrow was disallowed from using scientific testimony to make his case for Scopes. In an unprecedented and brilliant maneuver, he called Bryan to the stand as an expert on the Bible. In what is now part of American legend, the titans clashed over Biblical interpretation and evolutionary theory. Legally Bryan won the day. But the judgment of history has been with Darrow as the fictionalized accounts of the trial make clear. ¹⁸ Moreover, laws prohibiting the teaching of evolution in public schools are now acknowledged to be unconstitutional. An unfortunate consequence of the Scopes trial is that it reinforced the idea that one must choose between science and the Bible. Bryan, the Bible believing

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 The irony is fitting. Darwin, whose theories were once thought to be an entroped by the church as one of its saints, immortalized in stone after the manner of the great carvings on European cathedrals. Could even Darwin have foreseen that the religion in which he stirred so much controversy would come to the point of fully recognizing his monumental achievements in science? Perhaps it was beyond Darwin to forecast such dramatic changes. The Church itself had evolved. By a process analogous to fatural selection, doctrines that confined the revelation of God to a single book written before the dawn of modern science, found it increasingly difficult to survive in a Church that had become aware of the creative processes of the universe. Notes Notes Andrew D. White A History of the <i>Warface of Science</i> with Theolog in Christendam, New York: Braziller, 1955. David C. Lindberg and Ronald L. Numbers, editors, God and Naure, Betkley: University of California Press, 1986. Aristophanes, The Clouds and The Pet of Gold, translated by Peter D. Arnott, New York: AHM Pub. Corp., 1967, pp. 17-18. Bernael Cohen, "Prejudica Aquinst the Introduction of Lighting Rods," Journal of the Franklin Institute, 253/5 (May 1952), p. 433. White, A History of the Warface, p. 368. Henry Mortis and Gary Pater, War is Creation Science' revised edition, El Cajon, California: Master Books, 1967, p. xit; cf. p. 19; pp. 299-300. Mchael Ruse, The Dawinian Revolution Science' feels in Tooth and Claw, Chicago: Chicago University Press, 1979, pp. 37-6180. A helpful discussion of this issue can be found in Philip Kitcher's Abusing Science The Case Aquins Creation discussion of this issue can be found in Philip Kitcher's Abusing Science The Case Aquinat Sity of New York: State University Press, 1979, pp. 37, 30. Frank Barch, Brown, The Evolution of Darwin's Religions Views, Macon, Georgia: Mercer University Press, 1969, pp. 33, 27, 30. Fred	 note in the New American Bible, where thinking is done with the heart rather than the brain (Prov. 23:7; Isaiah 10:7; Matt. 9:4; Matt. 15:18:19)—the words "brain" and "brains" are not found in the Bible; where heaven is literally above and hell literally below the earth (Luke 24:51; Acts 1:10-11; 1 Peter 3:19); and in which the end of the world was believed to be imminent (Rev. 22:7, 12, 20; 17 Thes. 4:157). If one takes one's science from the Bible, literally read, one learns that bats are birds and were created the same time with other birds (Lev. 11:3, 19; Detr. 14:11-18; Gen. 1:20-25), that sea mammals such as dolphins and whate were created with the fish (Gen. 1:20-25), that rock badgers and hare they the value of pi can be inferred to be simply 3 (I Kings 7:23). In short, the claim that the Bible yields up a scientifically accurate picture of the world is a far from the truth as anything could be. Fosdick's knowledge of the history of science and theology allowed him to see that those who have used the Bible as a guide to scientific truth have invariably been foreced to retreat in the face of the advance of knowledge. Indeed, the Babylonians, the Egyptians, and the Creeks were far ahead of the Hebrews in terms of their scientific knowledge. Fosdick argues that in the historical and scientific these value for creating. Fosdick concludes his article with these truths are conveyed. He agrees with Bryan that materialistic philosophy is incompatible with Christianity, but he does not believe that evolution in the schools, the majority of persons listed as Plaintiffs (i.e. those opposing the equal time bill, requiring equal time for creating. Fosdick and evolution in the schools, the majority of persons listed as Plaintiffs (i.e. those opposing the equal time bill) were in some way associated with mainline Christian religious organizations. Cleavy from the United Methodist. Episcopal, Roman Catholic, African Methodist Episcopal, Presbyterian, and Southern Baptist Churches wer
of articles occurred. Fosdick had been the Guest Minister at the Presbyterian Old First Church in New York City for four years. Bryan, who was a Presbyterian, led the fight in the 1923 General Assembly to call for Fosdick's resignation. The Assembly reached a compromise, offering Fosdick the pulpit of Old First provided he was willing to become a Presbyterian (Fosdick was a Baptist). Fosdick graciously refused and tendered his resignation. Shortly thereafter, Fosdick was lured to another pastorate, one that included the building of Riverside Church in New York City. Over the west portal of the church building are a series of carved figures representing scientists, philosophers, and religious leaders. Among the figures is one representing Charles Darwin. ²³	Job 26:11); there was a sea above the sky, "the waters which were above the firmament" (Gen. 1:7; Ps. 148:4) and through "the win- dows of heaven" the rain came down (Gen. 7:11; Ps. 78:23); beneath the earth was mysterious Sheol where dwelt the shadowy dead (Is. 14:9-11). ²¹ Fosdick could have added other examples of the Bible's prescientific curiosities: The Bible describes a world in which disease and mental illness are often as- cribed to the agency of demons (Mark 1:26, passim); where the existence of witches and other manifestations of supernatural malevolence are routinely

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teenth Century," in God & Nature, pp. 369-390. It should be noted that while Temple, Strong, and Beecher did not reject evolutionary theory, they did reject natural selection as the mechanism of evolution. Thus, they rejected Darwinism without rejecting evolution (p.383).

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¹⁵ Eric C. Rust, Evolutionary Philosophies and Contemporary Theology, Philadelphia: Westminster Press, 1969, p. 15.

¹⁶ Roland Mushat Frye, editor, Is God a Creationist? The Religious Case Against Creation-Science, New York: Charles Scribner's Sons, 1983, p. 22.

¹⁷ Hartshorne, Omnipotence, p. 67.

18 Jerome Lawrence and Robert E. Lee, Inherit the Wind, New York: Bantam Books, 1960.

¹⁹ The articles by Bryan annd Fosdick are reprinted in Evolution and Religion The Conflict Between Science and Theology in Modern America, edited by Gail Kennedy, Boston: D. C. Heath & Co., 1957, pp. 23-34.

²⁰ Kitcher, Abusing Science, pp. 155-164; 89-96. See also the articles by George Abell, Stephen G. Brush, Steven D. Schafersman and John W. Patterson in Scientists Confront Creationism, edited by Laurie R. Godfrey, New York: W. W. Norton, 1983.

²¹ Fosdick, in the Kennedy volume, p. 32.

²¹ Ashley Montagu, editor, Science and Creationism, Oxford: Oxford University Press. 1984, p. 366.
 ²³ Harry Emerson Fosdick, The Living of These Days, New York: Harper & Brothers, 1956, p. 192.

Individual Depression and the Influence of the Family: A Look at Perceptions

Lee V. Alderman

Abstract

Research was conducted to analyze the differences between depressed and nondepressed phychology students in terms of their perception of family members and their influence as measured by the Beck Depression Inventory (BDI), the Family Relationship Inventory (FRI), and a demographic questionaire.

Independent t-tests comparing FRI scores between depressed and nondepressed groups were nonsignificant (p>.05). The current study did not show any significant differences between depressed and nondepressed individuals and their perceptions of their parent(s) or guardian(s), or in the way each group perceived their siblings. Also, neither group favored one parent or guardian over the other.

A new method was devised for scoring the FRI when it was used in a large nonfamilial group.

Body of Paper

Approximately 15 percent of American adults will have a depressive episode at least once in their lives, and family incidence of this disorder is considerably greater than that for the general population. Family systems theorists assume that individual behavior can best be understood and treated if it is first viewed within its most intimate social context, the family.

According to researchers at the Family Institute of Kansas City (Corrales, Bueker, Ro-Trock & Smith, 1981), an individual's behavior is a comment on the whole system (family, school, business) and the whole system is involved in the individual's behavior. A circular causality is seen to exist; a view of the family system as a related set of mutually interacting, impacting parts of components. Corrales, et al.'s (1981) statement, while intriguing, raised the question that if an individual's behavior is imprinted by the family system, then this

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