



Prospects for Theistic Science

Roy Clouser



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*I [think that]
religious belief
engages science
in a way that
is not merely
thick, but per-
vasive; yet at
the same time,
[I deny] that
the engagement
consists
primarily in
Scripture
(or theology)
supplying con-
tent to theories.*

This article first tackles the issue of defining what counts as a religious belief, and shows why obtaining such a definition opens the way to discovering a deeper level of interaction between divinity beliefs and the scientific enterprise than the prevailing views of the science/religion relation allow for. This deeper level of interaction is illustrated by applying it to twentieth-century atomic physics. It is then shown why this level of interaction implies a distinctive anti-reductionist perspective from which theists should do science, a perspective in which belief in God acts as a regulative presupposition. Finally, reduction as a strategy for explanation is critiqued and found bankrupt.

Among theists, the most popular view of the engagement between science and religion (henceforth the S/R relation) is a minimalist one. They see the role of religious belief to science as primarily negative such that any theory can be acceptable to a theist so long as it does not outright contradict any revealed truth of Faith. On this view, conflict between science and religion is not only possible but is the only (or the most important) relation between them: if a theory outright contradicts revealed truth it is false; otherwise, it is theistically unobjectionable. There is, therefore, no such thing as theistic science; there is at most theistically compatible science.

A lesser number of theists take religious belief to have a thicker engagement with science than merely acting as a negative, external check for falsehood. For them, religious belief can supply content to theories as well. The majority of this "thicker-engagement" party hold the position that although theistic belief has little to contribute to the natural sciences, it can provide content to theories of the social sciences such as the teaching that humans are morally responsible for their actions. Fundamentalists extend this by insisting that revealed truths can yield

positive content for virtually every science. And some theists have proposed still other ideas of thicker engagement. For example, recent writers have claimed that theism's positive contribution to science is not so much that of providing actual content to theories as it is that religious ideas inspire scientific ideas. There are permutations on these views, of course, and a number of mix-and-match combinations of them are possible.

In what follows, I write as a theist who agrees with the thicker-engagement position, but who finds all of its presently popular versions to be deficient. What I offer here is a distinctive interpretation of the S/R relation according to which religious belief engages science in a way that is not merely thick, but pervasive; yet at the same time, it denies that the engagement consists primarily in Scripture (or theology) supplying content to theories. Because the position is complex, I will not have the space to critique the other views in detail. Their relative weaknesses will be exposed only indirectly by defending my view. There is room for only the following preliminary comment on them.

It seems clear to me that each of the theistic versions of the S/R relation is able to point to cases which instantiate it. Surely, it cannot be wrong for a theist to say that a theory must be false if it outright contradicts a tenet of theism, and it seems equally certain that there are theistic teachings that should be included in theories. The fundamentalist goes too far, in my opinion, by regarding Scripture as a sort of encyclopedia of inspired information on virtually every

Roy Clouser is professor of philosophy and religion (emeritus) at the College of New Jersey. He holds an A.B. from Gordon College, a B.D. from Reformed Episcopal Seminary, and an M.A. and Ph.D. from the University of Pennsylvania. Along the way to the Ph.D., he studied with Paul Tillich at Harvard Graduate School and with Herman Dooyeweerd in Amsterdam. Roy is the author of *The Myth of Religious Neutrality* (U. of Notre Dame Press, revised 2005), *Knowing with the Heart* (IVP, 1999), and numerous articles. He can be contacted by email at royclouser@comcast.net.

Science In Theistic Contexts

Professor Christopher B Kaiser



Science In Theistic Contexts:

The Warfare between Science & Religion Jeff Hardin, Ronald L Numbers, Ronald A. Binzley, 2018-10-15 A very welcome volume of essays questioning the presumption of irreconcilable conflict between science and religion British Journal for the History of Science The conflict thesis the idea that an inevitable irreconcilable conflict exists between science and religion has long been part of the popular imagination The Warfare between Science and Religion assembles a group of distinguished historians who explore the origin of the thesis its reception the responses it drew from various faith traditions and its continued prominence in public discourse Several essays examine the personal circumstances and theological idiosyncrasies of important intellectuals including John William Draper and Andrew Dickson White who through their polemical writings championed the conflict thesis relentlessly Others consider what the thesis meant to different religious communities including evangelicals liberal Protestants Roman Catholics Eastern Orthodox Christians Jews and Muslims Finally essays both historical and sociological explore the place of the conflict thesis in popular culture and intellectual discourse today Based on original research and written in an accessible style the essays in The Warfare between Science and Religion take an interdisciplinary approach to question the historical relationship between science and religion and bring much needed perspective to an often bitter controversy Contributors include Thomas H Aechtner Ronald A Binzley John Hedley Brooke Elaine Howard Ecklund Noah Efron John H Evans Maurice A Finocchiaro Frederick Gregory Bradley J Gundlach Monte Harrell Hampton Jeff Hardin Peter Harrison Bernard Lightman David N Livingstone David Mislin Efthymios Nicolaidis Mark A Noll Ronald L Numbers Lawrence M Principe Jon H Roberts Christopher P Scheitle M Alper Yal inkaya

Science in Theistic Contexts John Hedley Brooke, Margaret J. Osler, Jitse M. van der Meer, 2001 It is a widely shared assumption that science and religion are fundamentally opposed to each other Yet recent historiography has shown that religious belief needs to be added to the social economic political and other cultural factors that went into the making of modern science This new collection shows religious ideas not only motivated scientific effort but also shaped the actual content of major scientific theories The fourteen studies contained in this volume concentrate on such topics as the theological facets of modern astronomy in the works of Galileo Kepler and Newton the retention of teleology in the natural philosophy of Boyle and the theistic and teleological associations of the modern theory of evolution authored by Darwin and Wallace While the majority of the contributions focus on the Christian traditions the collection also contains case studies of Judaic and Islamic influences Reflecting the fecundity of contemporary scholarship the current volume should be of extraordinary interest to historians of science scientists as well as anyone intrigued by the many ways in which relations between religion and science have been constructed Contributors include Peter Barker John Hedley Brooke Geoffrey Cantor Margaret G Cook Michael J Crowe Thomas Dixon Noah J Efron Richard England Martin Fichman Maurice A Finocchiaro Menachem Fish Bernard R Goldstein Bernard Lightman Margaret J Osler F Jamil Ragep Phillip R Sloan Stephen Snobelen

Jitse M van der Meer Stephen J Wykstra **The Role of Theology in the History and Philosophy of Science** Joshua M. Moritz, 2017-11-13 After a bibliographic introduction highlighting various research trends in science and religion Joshua Moritz explores how the current academic and conceptual landscape of theology and science has been shaped by the history of science even as theology has informed the philosophical foundations of science The first part assesses the historical interactions of science and the Christian faith looking at the cases of human dissection in the Middle Ages and the Galileo affair in order to challenge the common notion that science and religion have always been at war Part two investigates the nature of the interaction between science and Christian theology by exploring the role that metaphysical presuppositions and theological concepts have played and continue to play within the scientific process **Science and Religion** Gary B. Ferngren, 2013-06-17 Written by distinguished historians of science and religion the thirty essays in this volume survey the relationship of Western religious traditions to science from the beginning of the Christian era to the late twentieth century This wide ranging collection also introduces a variety of approaches to understanding their intersection suggesting a model not of inalterable conflict but of complex interaction Tracing the rise of science from its birth in the medieval West through the scientific revolution the contributors describe major shifts that were marked by discoveries such as those of Copernicus Galileo and Isaac Newton and the Catholic and Protestant reactions to them They assess changes in scientific understanding brought about by eighteenth and nineteenth century transformations in geology cosmology and biology together with the responses of both mainstream religious groups and such newer movements as evangelicalism and fundamentalism The book also treats the theological implications of contemporary science and evaluates recent approaches such as environmentalism gender studies social construction and postmodernism which are at the center of current debates in the historiography understanding and application of science Contributors Colin A Russell David B Wilson Edward Grant David C Lindberg Alnoor Dhanani Owen Gingerich Richard J Blackwell Edward B Davis Michael P Winship John Henry Margaret J Osler Richard S Westfall John Hedley Brooke Nicolaas A Rupke Peter M Hess James Moore Peter J Bowler Ronald L Numbers Steven J Harris Mark A Noll Edward J Larson Richard Olson Craig Sean McConnell Robin Collins William A Dembski David N Livingstone Sara Miles and Stephen P Weldon Heterodoxy in Early Modern Science and Religion John Brooke, Ian Maclean, 2005-12-01 The separation of science and religion in modern secular culture can easily obscure the fact that in sixteenth and seventeenth century Europe ideas about nature were intimately related to ideas about God Readers of this book will find fresh and exciting accounts of a phenomenon common to both science and religion deviation from orthodox belief How is heterodoxy to be measured How might the scientific heterodoxy of particular thinkers impinge on their religious views Would heterodoxy in religion create a predisposition towards heterodoxy in science Might there be a homology between heterodox views in both domains Such major protagonists as Galileo and Newton are re examined together with less familiar figures in order to bring out the extraordinary richness of scientific and religious thought in the

pre modern world **Research in the Social Scientific Study of Religion, Volume 23** ,2012-05-23 The social scientific study of religion is a crucial arena of human endeavor as questions about the existence and nature of God interact with the study of religion as a human phenomenon The twenty third volume of Research in the Social Scientific Study of Religion continues the tradition of promoting extended debate of current issues in the field The special section on Theism and Non Theism in Psychological Science includes contributions from leading researchers in this area This landmark collection of papers draws on a range of perspectives that both summarize the theism debate in psychology and help to move it forward in new directions In addition the volume includes papers on other key areas in the study of religion such as spirituality and social capital

Science in the Age of Baroque Ofer Gal,Raz Chen-Morris,2012-11-28 This volume examines the New Science of the 17th century in the context of Baroque culture analysing its emergence as an integral part of the high culture of the period The collected essays explore themes common to the new practices of knowledge production and the rapidly changing culture surrounding them as well as the obsessions anxieties and aspirations they share such as the foundations of order the power and peril of mediation and the conflation of the natural and the artificial The essays also take on the historiographical issues involved the characterization of culture in general and culture of knowledge in particular the use of generalizations like Baroque and the status of such categories and the role of these in untangling the historical complexities of the tumultuous 17th century The canonical protagonists of the Scientific Revolution are considered and so are some obscure and suppressed figures Galileo side by side with Scheiner Torricelli together with Kircher Newton as well as Scilla The coupling of Baroque and Science defies both the still triumphalist historiographies of the Scientific Revolution and the slight embarrassment that the Baroque represents for most cultural national histories of Western Europe It signals a methodological interest in tensions and dilemmas rather than self affirming narratives of success and failure and provides an opportunity for reflective critique of our historical categories which is valuable in its own right

The Life and Science of Harold C. Urey Matthew Shindell,2019-12-03 Harold C Urey 1893 1981 whose discoveries lie at the foundation of modern science was one of the most famous American scientists of the twentieth century Born in rural Indiana his evolution from small town farm boy to scientific celebrity made him a symbol and spokesman for American scientific authority Because he rose to fame alongside the prestige of American science the story of his life reflects broader changes in the social and intellectual landscape of twentieth century America In this the first ever biography of the chemist Matthew Shindell shines new light on Urey s struggles and achievements in a thoughtful exploration of the science politics and society of the Cold War era From Urey s orthodox religious upbringing to his death in 1981 Shindell follows the scientist through nearly a century of American history his discovery of deuterium and heavy water earned him the Nobel Prize in 1934 his work on the Manhattan Project helped usher in the atomic age he initiated a generation of American scientists into the world of quantum physics and chemistry and he took on the origin of the Moon in NASA s lunar exploration program Despite his success however Urey had

difficulty navigating the nuclear age In later years he lived in the shadow of the bomb he helped create plagued by the uncertainties unleashed by the rise of American science and unable to reconcile the consequences of scientific progress with the morality of religion Tracing Urey s life through two world wars and the Cold War not only conveys the complex historical relationship between science and religion in the twentieth century but it also illustrates how these complexities spilled over into the early days of space science More than a life story this book immerses readers in the trials and triumphs of an extraordinary man and his extraordinary times

John Phillips and the Business of Victorian Science Jack Morrell, 2017-11-28 John Phillips was one of the most remarkable and important scientists of the Victorian period Orphaned at the age of seven and brought up by his uncle he rose to hold a number of highly prestigious posts within the British academic and scientific community despite lacking a university education By the time of his death in 1874 he was widely regarded as one of the pioneers and champions of the science of geology yet until now there has been no full length biography of Phillips In rectifying this lacuna Jack Morrell has produced a meticulous and magisterial piece of scholarship that does justice to the achievements and legacy of John Phillips Adopting a broadly chronological approach the book not only traces the development of Phillips s career but clarifies and highlights his role within Victorian culture shedding light on many wider themes It explores how Phillips love of science was inseparable from his need to earn a living and develop a career which could sustain him Hence questions of power authority reputation and patronage were central to Phillips s career and scientific work Drawing on a wealth of primary sources and a rich body of recent writings on Victorian science this biography provides a fascinating and compelling account of John Phillips and his legacy Pulling together his personal story with the scientific theories and developments of the day and fixing them firmly within the context of wider society this biography will be vital reading for anyone with an interest in the history of British and nineteenth century science

Toward a Theology of Scientific Endeavour Professor Christopher B Kaiser, 2013-05-28 Foundations of science are specific conditions of the cosmos of human intelligence of cultural beliefs and of technological structures that make the pursuit of modern science possible Each of the four foundations of scientific endeavour can be studied as a topic on its own The concurrent study of all four together reveals several tensions and interconnections among them that point the way to a greater unification of faith and science This book explores four foundations of scientific endeavour and investigates some of the paradoxes each of them raises Kaiser shows that the resolution of these paradoxes inevitably leads us into theological discourse and raises new challenges for theological endeavour In order to address these challenges Kaiser draws on the wider resources of the Judeo Christian tradition and argues for a refocusing of contemporary theology from the perspective of natural science

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