

# The Age of Scientific Naturalism

*Edited by Bernard Lightman  
and Michael S. Reidy*



Number 24

# The Age Of Scientific Naturalism Tyndall And His Contemporaries

**KJ Lindholm-Leary**



## **The Age Of Scientific Naturalism Tyndall And His Contemporaries:**

**The Age of Scientific Naturalism** Michael S Reidy, 2015-10-06 The essays in this volume focus on the way Victorian Physicist John Tyndall and his correspondents developed their ideas through letters periodicals and journals and challenge assumptions about who gained authority and how they attained and defended their position within the scientific community

**The Metaphysical Society (1869-1880)** Catherine Marshall, Bernard V. Lightman, Richard England, 2019 This book contains essays by important scholars on the historical significance of the Metaphysical Society 1869 1880 The contributors examine the innermost thoughts of the leading intellectuals of the period as they grappled with the changes around them

*Nineteenth-Century British Secularism* Michael Rectenwald, 2016-03-08 *Nineteenth Century British Secularism* offers a new paradigm for understanding secularization in the nineteenth century It addresses the crisis in the secularization thesis by foregrounding a nineteenth century development called Secularism the particular movement and creed founded by George Jacob Holyoake from 1851 to 1852 *Nineteenth Century British Secularism* rethinks and reevaluates the significance of Holyoake s Secularism regarding it as a historic moment of modernity and granting it centrality as both a herald and exemplar for a new understanding of modern secularity In addition to Secularism proper the book treats several other moments of secular emergence in the nineteenth century including Thomas Carlyle s natural supernaturalism Richard Carlile s anti theist science advocacy Charles Lyell s uniformity principle in geology Francis Newman s naturalized religion or primitive Christianity and George Eliot s secularism and post secularism

**Science Periodicals in Nineteenth-Century Britain** Gowan Dawson, Bernard Lightman, Sally Shuttleworth, Jonathan R. Topham, 2020-03-02 Periodicals played a vital role in the developments in science and medicine that transformed nineteenth century Britain Proliferating from a mere handful to many hundreds of titles they catered to audiences ranging from gentlemanly members of metropolitan societies to working class participants in local natural history clubs In addition to disseminating authorized scientific discovery they fostered a sense of collective identity among their geographically dispersed and often socially disparate readers by facilitating the reciprocal interchange of ideas and information As such they offer privileged access into the workings of scientific communities in the period The essays in this volume set the historical exploration of the scientific and medical periodicals of the era on a new footing examining their precise function and role in the making of nineteenth century science and enhancing our vision of the shifting communities and practices of science in the period This radical rethinking of the scientific journal offers a new approach to the reconfiguration of the sciences in nineteenth century Britain and sheds instructive light on contemporary debates about the purpose practices and price of scientific journals

**A Companion to the History of Science** Bernard Lightman, 2016-01-28 The Wiley Blackwell Companion to the History of Science is a single volume companion that discusses the history of science as it is done today providing a survey of the debates and issues that dominate current scholarly discussion with contributions from leading international scholars Provides a single volume

overview of current scholarship in the history of science edited by one of the leading figures in the field Features forty essays by leading international scholars providing an overview of the key debates and developments in the history of science Reflects the shift towards deeper historical contextualization within the field Helps communicate and integrate perspectives from the history of science with other areas of historical inquiry Includes discussion of non Western themes which are integrated throughout the chapters Divided into four sections based on key analytic categories that reflect new approaches in the field

*William E. Wilson (1851-1908) - The Work and Family of a Westmeath Astronomer* Ian Elliott and Charles Mollan, 2018-10-11 Wilson was a wealthy gentleman who could afford to indulge his hobby of Astronomy He was attracted to this subject when as a teenager he took part in the Total Eclipse Expedition to Algeria in 1870 He set up a well equipped private Observatory at Daramona House in Streete County Westmeath His contributions to Astronomy included The first fairly accurate estimate of the temperature of the Sun s visible surface the first photo electric measurements of the brightness of stars a series of superb celestial photographs with a 24 inch Grubb reflector The first use of cinematography in solar physics One of the first to suggest that radio activity might keep the stars shining The book covers all these initiatives and much more Wilson though he never attended university was elected to Fellowship of the London Royal Society and received an honorary doctorate from Dublin University But the book covers his family and life style with brief biographies of his contemporary scientific colleagues The book is well illustrated with family and astronomical photographs It is written for the educated layman and no knowledge of Astronomy or indeed science is required

*News from Mars* Joshua Nall, 2019-08-13 Mass media in the late nineteenth century was full of news from Mars In the wake of Giovanni Schiaparelli s 1877 discovery of enigmatic dark straight lines on the red planet astronomers and the public at large vigorously debated the possibility that it might be inhabited As rivalling scientific practitioners looked to marshal allies and sway public opinion through newspapers periodicals popular books exhibitions and encyclopaedias they exposed disagreements over how the discipline of astronomy should be organized and how it should establish acceptable conventions of discourse News from Mars provides a new account of this extraordinary episode in the history of astronomy revealing how major transformations in astronomical practice across Britain and America were inextricably tied up with popular scientific culture and a transatlantic news economy that enabled knowledge to travel As Joshua Nall argues astronomers were journalists too eliding practice with communication in consequential ways As writers and editors they played a pivotal role in the emergence of a new astronomy dedicated to the study of the physical constitution and life history of celestial objects blurring harsh distinctions between those who produced esoteric knowledge and those who disseminated it

*The Routledge Research Companion to Nineteenth-Century British Literature and Science* John Holmes, Sharon Ruston, 2017-05-18 Tracing the continuities and trends in the complex relationship between literature and science in the long nineteenth century this companion provides scholars with a comprehensive authoritative and up to date foundation for research in this field In intellectual material and

social terms the transformation undergone by Western culture over the period was unprecedented Many of these changes were grounded in the growth of science Yet science was not a cultural monolith then any more than it is now and its development was shaped by competing world views To cover the full range of literary engagements with science in the nineteenth century this companion consists of twenty seven chapters by experts in the field which explore crucial social and intellectual contexts for the interactions between literature and science how science affected different genres of writing and the importance of individual scientific disciplines and concepts within literary culture Each chapter has its own extensive bibliography The volume as a whole is rounded out with a synoptic introduction by the editors and an afterword by the eminent historian of nineteenth century science Bernard Lightman

Green Victorians Vicky Albritton, Fredrik Albritton Jonsson, 2016-03-07 From Henry David Thoreau to Bill McKibben critics and philosophers have sought to demonstrate how a life without constant growth might still be rich and satisfying Yet one crucial episode in the history of sustainability has been largely forgotten *Green Victorians* recovers the story of a small circle of men and women led by political economist and art critic John Ruskin *Green Victorians* explores how Ruskin's most enthusiastic followers turned his theory into practice in a series of ambitious local projects ranging from painting hand weaving and wood working to gardening archaeology story telling and children's education This is a lively yet unsettling story for while those in Ruskin's experimental community established a thriving handicraft industry and protected the Lake District from over development they paid a price Richly illustrated *Green Victorians* breaks new ground by connecting the ideas and practices of Ruskin's utopian community to the problems of ethical consumption then and now

*Mobilizing Traditions in the First Wave of the British Animal Defense Movement* Chien-hui Li, 2019-06-11 This book explores the British animal defense movement's mobilization of the cultural and intellectual traditions of its time from Christianity and literature to natural history evolutionism and political radicalism in its struggle for the cause of animals in the nineteenth and early twentieth centuries Each chapter examines the process whereby the animal protection movement interpreted and drew upon varied intellectual moral and cultural resources in order to achieve its manifold objectives participate in the ongoing re creation of the current traditions of thought and re shape human animal relations in wider society Placing at its center of analysis the movement's mediating power in relation to its surrounding traditions Li's original perspective uncovers the oft ignored cultural work of the movement whilst restoring its agency in explaining social change Looking forward it points at the same time to the potential of all traditions through ongoing mobilization to effect change in the human animal relations of the future

**Science and Religion** Gary B. Ferngren, 2017-03-01 An essential examination of the historical relationship between science and religion Since its publication in 2002 *Science and Religion* has proven to be a widely admired survey of the complex relationship of Western religious traditions to science from the beginning of the Christian era to the late twentieth century In the second edition eleven new essays expand the scope and enhance the analysis of this enduringly popular book Tracing the rise of science

from its birth in the medieval West through the scientific revolution the contributors here assess historical changes in scientific understanding brought about by transformations in physics anthropology and the neurosciences and major shifts marked by the discoveries of Copernicus Galileo Isaac Newton Charles Darwin and others In seeking to appreciate the intersection of scientific discovery and the responses of religious groups contributors also explore the theological implications of contemporary science and evaluate approaches such as the Bible in science and the modern synthesis in evolution which are at the center of debates in the historiography understanding and application of science The second edition provides chapters that have been revised to reflect current scholarship along with new chapters that bring fresh perspectives on a diverse range of topics including new scientific approaches and disciplines and non Christian traditions such as Judaism Islam Asiatic religions and atheism This indispensable classroom guide is now more useful than ever before Contributors Richard J Blackwell Peter J Bowler John Hedley Brooke Glen M Cooper Edward B Davis Alnoor Dhanani Diarmid A Finnegan Noah Efron Owen Gingerich Edward Grant Steven J Harris Matthew S Hedstrom John Henry Peter M Hess Edward J Larsen Timothy Larson David C Lindberg David N Livingstone Craig Martin Craig Sean McConnell James Moore Joshua M Moritz Mark A Noll Ronald L Numbers Richard Olson Christopher M Rios Nicolaas A Rupke Michael H Shank Stephen David Snobelen John Stenhouse Peter J Susalla Mariusz Tabaczek Alan C Weissenbacher Stephen P Weldon and Tomoko Yoshida

**Sound Authorities** Edward J. Gillin, 2022-02-11 Sound Authorities shows how experiences of music and sound played a crucial role in nineteenth century scientific inquiry in Britain In Sound Authorities Edward J Gillin focuses on hearing and aurality in Victorian Britain claiming that the development of the natural sciences in this era cannot be understood without attending to the study of sound and music During this time scientific practitioners attempted to fashion themselves as authorities on sonorous phenomena coming into conflict with traditional musical elites as well as religious bodies Gillin pays attention to sound in both musical and nonmusical contexts specifically the cacophony of British industrialization Sound Authorities begins with the place of acoustics in early nineteenth century London examining scientific exhibitions lectures spectacles workshops laboratories and showrooms He goes on to explore how mathematicians mobilized sound in their understanding of natural laws and their vision of a harmonious ordered universe In closing Gillin delves into the era's religious and metaphysical debates over the place of music and humanity in nature the relationship between music and the divine and the tensions between spiritualist understandings of sound and scientific ones

*The Birth of Energy* Cara New Daggett, 2019-09-13 Cara New Daggett traces the genealogy of the idea of energy from the Industrial Revolution to the present showing how it has informed fossil fuel imperialism the governance of work and our relationship to the Earth

**A Male Hysteria** Edward Beasley, 2024-07-30 A history of diabetes science and the experience of diabetics in the nineteenth century England A Male Hysteria examines both the science of diabetes in nineteenth century England and the testimony of Victorian diabetics What could be known about diabetes given the science of the day And what did new models of diabetes

mean for the treatment and self image of diabetics Ideas about diabetes were revolutionized in 1849 by the great French physiologist Claude Bernard After he made rabbits diabetic by pricking their brains diabetes in England came to be thought of as neurological even psychological in origin British diabetics often men were prevented from working or becoming excited treated in the same manner as women who were diagnosed with hysteria Meanwhile discoveries in thermodynamics were applied to diabetics and menstruating women People were assumed to be closed systems wasting energy that couldn't be replenished Thus diabetics had to stay still if they wanted to live and women had to stay away from education to have the energy to produce children Some people resisted these hysterical views As no brain lesion was ever found in deceased diabetics even after decades of searching the animal model of the disease no longer seemed to apply to humans Some diabetic patients also resisted the hysterical picture including medical professionals both men and women who refused to slow down as the new treatment regimen was mandated Likewise physicians at spas noted that walking long distances seemed to help diabetics

*A Male Hysteria* journeys through nineteenth century diabetes science and the lives of diabetics It examines how science can go wrong when models from one area of inquiry are too excitedly applied to another It also demonstrates the persistence of the psychological stereotype of diabetics as nervous and overworked in the United Kingdom long after medical attention turned to the pancreas and the role of insulin

Imagining the Darwinian Revolution Ian Hesketh, 2022-06-14 This volume considers the relationship between the development of evolution and its historical representations by focusing on the so called Darwinian Revolution The very idea of the Darwinian Revolution is a historical construct devised to help explain the changing scientific and cultural landscape that was ushered in by Charles Darwin's singular contribution to natural science And yet since at least the 1980s science historians have moved away from traditional great man narratives to focus on the collective role that previously neglected figures have played in formative debates of evolutionary theory Darwin they argue was not the driving force behind the popularization of evolution in the nineteenth century This volume moves the conversation forward by bringing Darwin back into the frame recognizing that while he was not the only important evolutionist his name and image came to signify evolution itself both in the popular imagination as well as in the work and writings of other evolutionists Together contributors explore how the history of evolution has been interpreted deployed and exploited to fashion the science behind our changing understandings of evolution from the nineteenth century to the present

Systematic Atheology John R. Shook, 2017-12-01 Atheology is the intellectual effort to understand atheism defend the reasonableness of unbelief and support nonbelievers in their encounters with religion This book presents a historical overview of the development of atheology from ancient thought to the present day It offers in depth examinations of four distinctive schools of atheological thought rationalist atheology scientific atheology moral atheology and civic atheology John R Shook shows how a familiarity with atheology's complex histories forms and strategies illuminates the contentious features of today's atheist and secularist movements which are just as capable of contesting each

other as opposing religion The result is a book that provides a disciplined and philosophically rigorous examination of atheism s intellectual strategies for reasoning with theology Systematic Atheology is an important contribution to the philosophy of religion religious studies secular studies and the sociology and psychology of nonreligion **Of Popes and Unicorns** David Hutchings,James C. Ungureanu,2022 Of Popes and Unicorns shares the story of John Draper and Andrew White who in the late 19th century published books falsely claiming a toxic history between religion and science This book examines the implications of Draper and White s conspiracy and debunks the conflict thesis once and for all **Helmholtz** David Cahan,2018-09-11 Hermann von Helmholtz was a towering figure of nineteenth century scientific and intellectual life Best known for his achievements in physiology and physics he also contributed to other disciplines such as ophthalmology psychology mathematics chemical thermodynamics and meteorology With Helmholtz A Life in Science David Cahan has written a definitive biography one that brings to light the dynamic relationship between Helmholtz s private life his professional pursuits and the larger world in which he lived Utilizing all of Helmholtz s scientific and philosophical writings as well as previously unknown letters this book reveals the forces that drove his life a passion to unite the sciences vigilant attention to the sources and methods of knowledge and a deep appreciation of the ways in which the arts and sciences could benefit each other By placing the overall structure and development of his scientific work and philosophy within the greater context of nineteenth century Germany Helmholtz also serves as cultural biography of the construction of the scientific community its laboratories institutes journals disciplinary organizations and national and international meetings Helmholtz s life is a shining example of what can happen when the sciences and the humanities become interwoven in the life of one highly motivated energetic and gifted person Natural Philosophy Alister E. McGrath,2023 This book argues for the retrieval of the concept of natural philosophy encompassing the natural sciences philosophy and theology amongst others It identifies the essential characteristics of natural philosophy from its Aristotelian roots onwards and then makes a creative proposal on how we might reincorporate it into our current worldview **Science Museums in Transition** Carin Berkowitz,Bernard Lightman,2017-07-19 The nineteenth century witnessed a dramatic shift in the display and dissemination of natural knowledge across Britain and America from private collections of miscellaneous artifacts and objects to public exhibitions and state sponsored museums The science museum as we know it an institution of expert knowledge built to inform a lay public was still very much in formation during this dynamic period Science Museums in Transition provides a nuanced comparative study of the diverse places and spaces in which science was displayed at a time when science and spectacle were still deeply intertwined when leading naturalists curators and popular showmen were debating both how to display their knowledge and how and whether they should profit from scientific work and when ideals of nationalism class politics and democracy were permeating the museum s walls Contributors examine a constellation of people spaces display practices experiences and politics that worked not only to define the museum but to shape public science and scientific



knowledge Taken together the chapters in this volume span the Atlantic exploring private and public museums short and long term exhibitions and museums built for entertainment education and research and in turn raise a host of important questions about expertise and about who speaks for nature and for history

Delve into the emotional tapestry woven by in Experience **The Age Of Scientific Naturalism Tyndall And His Contemporaries** . This ebook, available for download in a PDF format ( \*), is more than just words on a page; itis a journey of connection and profound emotion. Immerse yourself in narratives that tug at your heartstrings. Download now to experience the pulse of each page and let your emotions run wild.

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