

EDWARD FRANKLAND

**Chemistry, Controversy
and Conspiracy
in Victorian England**

Colin A. Russell



Edward Frankland Chemistry Controversy And Conspiracy In Victorian England

SJ Ball



Edward Frankland Chemistry Controversy And Conspiracy In Victorian England:

Edward Frankland Colin A. Russell, 2003-12-04 This is the first scientific biography of Edward Frankland probably the most eminent chemist of nineteenth century Britain Frankland discovered the chemical bond and founded the science of organometallic chemistry He was a leading reformer of chemistry teaching and the government's close adviser on urban water purity From an apprenticeship in a druggist's shop in Lancaster he was to occupy the first chemical chair at Manchester and become professor at what became Imperial College He was knighted in 1897 Today an obscurity of reputation stems from the conspiracy of silence surrounding Frankland's origins as an illegitimate child Recently however Professor Russell has gained access to a vast collection of his private papers Russell's authoritative account discloses amongst much else this web of conspiracy in the scientific community and will be of great interest to professional chemists historians of science and general readers concerned with the social fabric of Victorian England

Instruments and Experimentation in the History of Chemistry Frederic Lawrence Holmes, Trevor Harvey Levere, 2000 This volume moves chemical instruments and experiments into the foreground of historical concern in line with the emphasis on practice that characterizes current work on other fields of science and engineering

The History of Chemistry William Hodson Brock, 2016 On the nature of stuff The analysis of stuff Gases and atoms Types and hexagons Reactivity Synthesis

Models Soraya de Chadarevian, Nick Hopwood, 2004 Now that 3 D models are so often digital displays on flat screens it is timely to look back at the solid models that were once the third dimension of science This book is about wooden ships and plastic molecules wax bodies and a perspex economy monuments in cork and mathematics in plaster casts of diseases habitat dioramas and extinct monsters rebuilt in bricks and mortar These remarkable artefacts were fixtures of laboratories and lecture halls studios and workshops dockyards and museums Considering such objects together for the first time this interdisciplinary volume demonstrates how in research as well as in teaching 3 D models played major roles in making knowledge Accessible and original chapters by leading scholars highlight the special properties of models explore the interplay between representation in two dimensions and three and investigate the shift to modelling with computers The book is fascinating reading for anyone interested in the sciences medicine and technology and in collections and museums

Evolutionary Naturalism in Victorian Britain Bernard Lightman, 2023-05-31 Scholars have tended to portray T H Huxley John Tyndall and their allies as the dominant cultural authority in the second half of the 19th century Defenders of Darwin and his theory of evolution these men of science are often seen as a potent force for the secularization of British intellectual and social life In this collection of essays Bernard Lightman argues that historians have exaggerated the power of scientific naturalism to undermine the role of religion in middle and late Victorian Britain The essays deal with the evolutionary naturalists especially the biologist Thomas Henry Huxley the physicist John Tyndall and the philosopher of evolution Herbert Spencer But they look also at those who criticized this influential group of elite intellectuals including

aristocratic spokesman A J Balfour the novelist Samuel Butler and the popularizer of science Frank Buckland Focusing on the theme of the limitations of the cultural power of evolutionary naturalism the volume points to the enduring strength of religion in Britain in the latter half of the 19th century The Ascent of John Tyndall Roland Jackson, 2018-03-09 Rising from a humble background in rural southern Ireland John Tyndall became one of the foremost physicists communicators of science and polemicists in mid Victorian Britain In science he is known for his important work in meteorology climate science magnetism acoustics and bacteriology His discoveries include the physical basis of the warming of the Earth s atmosphere the basis of the greenhouse effect and establishing why the sky is blue But he was also a leading communicator of science drawing great crowds to his lectures at the Royal Institution while also playing an active role in the Royal Society Tyndall moved in the highest social and intellectual circles A friend of Tennyson and Carlyle as well as Michael Faraday and Thomas Huxley Tyndall was one of the most visible advocates of a scientific world view as tensions grew between developing scientific knowledge and theology He was an active and often controversial commentator through letters essays speeches and debates on the scientific political and social issues of the day with strongly stated views on Ireland religion race and the role of women Widely read in America his lecture tour there in 1872 73 was a great success Roland Jackson paints a picture of an individual at the heart of Victorian science and society He also describes Tyndall s importance as a pioneering mountaineer in what has become known as the Golden Age of Alpinism Among other feats Tyndall was the first to traverse the Matterhorn He presents Tyndall as a complex personality full of contrasts with his intense sense of duty his deep love of poetry his generosity to friends and his combativeness his persistent ill health alongside great physical stamina driving him to his mountaineering feats Drawing on Tyndall s letters and journals for this first major biography of Tyndall since 1945 Jackson explores the legacy of a man who aroused strong opinions strong loyalties and strong enmities throughout his life

Early Railway Chemistry and its Legacy Colin A Russell, John Hudson, 2019-04-05 One of the most important parts of British heavy industry today is our railway system Its constant appearances in news bulletins its enormous appeal to fans or enthusiasts its permanent role in the lives of most of us and its economic significance today all underline its importance Railway historians and enthusiasts will be surprised to learn that chemists played an important part in the development of the railway industry in Britain Chemists themselves are well aware of the many and wide ranging applications of their discipline but the fact that their predecessors were involved in the technological development of railways will come as a surprise to many This book is the first detailed study of this important interaction and covers the crucial role that chemistry played in the development of the British railway industry from its beginnings in the early 19th century up to the grouping of the railways of 1923 into GWR SR LNER and LMSR The book describes the vital relationship between chemistry and the railway industry all very recently discovered It shows that the railway system would simply have not been possible without chemical inputs chiefly but by no means entirely analytical This discovery about a huge revenue earning industry in Britain

came from rare documents recently unearthed and other archival material and the book contains many rare illustrations and vast amounts of previously unpublished material For the historian it is a classic case of where history of science and history of technology converge A great many engineers contributed to the enormous technological development which occurred in the railway industry between 1830 and 1923 but working alongside the engineers were the chemists and in certain critical areas their contribution to this development was vital It is a contribution which up until now has not been adequately recognised and this book puts the record straight The book has an unusually wide appeal being of interest to practising chemists those interested in the history of chemistry and its role in society historians of science and technology mechanical engineers and not least railway enthusiasts and railway historians The chemist will be justly proud of the extreme importance of the subject for industry and the railway enthusiast will gain a wholly new picture of the development of the industry in Britain

Perspectives on Chemical Biography in the 21st Century Isabel Malaquias, Peter J. T. Morris, 2019-01-14 Overlooked even despised by historians of chemistry for many years the genre of biography has enjoyed a revival since the beginning of this century The key to its renaissance is the use of the biographical form to provide a contextual analysis of important themes in contrast to the uncritical almost hagiographic lives of chemists written in the earlier part of the twentieth century Bringing together the contributions of scholars active in several different countries *Perspectives on Chemical Biography in the 21st Century* leads the reader through emerging questions around sources and the generic problems faced by authors of biographies before moving on to discuss aspects more related with physical theoretical and inorganic chemistry and facets of 19th century chemistry In contrast to the letters and diaries of earlier chemists we are now faced with scientists who communicate by telephone and email and compose their documents on computers Are we facing a modern equivalent of the destruction of the Library of Alexandria where all our sources are wiped out electronically

Ways of Knowing John V. Pickstone, 2001-04 In *Ways of Knowing* John V Pickstone provides a new and accessible framework for understanding science technology and medicine STM in the West from the Renaissance to the present Pickstone's approach has four key features First he synthesizes the long term histories and philosophies of disciplines that are normally studied separately Second he dissects STM into specific ways of knowing natural history analysis and experimentalism with separate but interlinked elements Third he explores these ways of knowing as forms of work related to our various technologies for making mending and destroying And finally he relates scientific and technical knowledges to popular understandings and to politics Covering an incredibly wide range of subjects from minerals and machines to patients and pharmaceuticals and from experimental physics to genetic engineering Pickstone's *Ways of Knowing* challenges the reader to reexamine traditional conceptualizations of the history philosophy and social studies of science technology and medicine

Science Without God? Peter Harrison, Jon H. Roberts, 2019-01-03 Can scientific explanation ever make reference to God or the supernatural The present consensus is no indeed a naturalistic stance is usually taken to be a distinguishing feature of modern science

Some would go further still maintaining that the success of scientific explanation actually provides compelling evidence that there are no supernatural entities and that true science from the very beginning was opposed to religious thinking Science without God Rethinking the History of Scientific Naturalism shows that the history of Western science presents us with a more nuanced picture Beginning with the naturalists of ancient Greece and proceeding through the middle ages the scientific revolution and into the nineteenth century the contributors examine past ideas about nature and the supernatural Ranging over different scientific disciplines and historical periods they show how past thinkers often relied upon theological ideas and presuppositions in their systematic investigations of the world In addition to providing material that contributes to a history of nature and naturalism this collection challenges a number of widely held misconceptions about the history of scientific naturalism

Double Fold Nicholson Baker, 2002-08-13 The ostensible purpose of a library is to preserve the printed word But for fifty years our country's libraries including the Library of Congress have been doing just the opposite destroying hundreds of thousands of historic newspapers and replacing them with microfilm copies that are difficult to read lack all the color and quality of the original paper and illustrations and deteriorate with age With meticulous detective work and Baker's well known explanatory power *Double Fold* reveals a secret history of microfilm lobbyists former CIA agents and warehouses where priceless archives are destroyed with a machine called a guillotine Baker argues passionately for preservation even cashing in his own retirement account to save one important archive all twenty tons of it Written the brilliant narrative style that Nicholson Baker fans have come to expect *Double Fold* is a persuasive and often devastating book that may turn out to be *The Jungle of the American library system*

The Chemical History of Color Mary Virginia Orna, 2012-10-06 In this brief Mary Virginia Orna details the history of color from the chemical point of view Beginning with the first recorded uses of color and ending in the development of our modern chemical industry this rich yet concise exposition shows us how color pervades every aspect of our lives Our consciousness our perceptions our useful appliances and tools our playthings our entertainment our health and our diagnostic apparatus all involve color and are based in no small part on chemistry

Brewing Science, Technology and Print, 1700-1880 James Sumner, 2015-07-28 How did the brewing of beer become a scientific process Sumner explores this question by charting the theory and practice of the trade in Britain and Ireland during the eighteenth and nineteenth centuries

Sparks of Life James E. Strick, Professor in the Dept of Earth and Environment and Chair of the Program in Science Technology and Society James E Strick, PhD, 2009-06-01 How asks James E Strick could spontaneous generation the idea that living things can suddenly arise from nonliving materials come to take root for a time even a brief one in so thoroughly unsuitable a field as British natural theology No less an authority than Aristotle claimed that cases of spontaneous generation were to be observed in nature and the idea held sway for centuries Beginning around the time of the Scientific Revolution however the doctrine was increasingly challenged attempts to prove or disprove it led to important breakthroughs in experimental design and laboratory techniques most notably sterilization methods that

became the cornerstones of modern microbiology and sped the ascendancy of the germ theory of disease The Victorian debates Strick shows were entwined with the public controversy over Darwin's theory of evolution While other histories of the debates between 1860 and 1880 have focused largely on the experiments of John Tyndall Henry Charlton Bastian and others Sparks of Life emphasizes previously understudied changes in the theories that underlay the debates Strick argues that the disputes cannot be understood without full knowledge of the factional infighting among Darwinians themselves as they struggled to create a socially and scientifically viable form of Darwinian science He shows that even the terms of the debate such as biogenesis usually but incorrectly attributed to Huxley were intensely contested

Laws of Men and Laws of Nature Tal GOLAN, Tal Golan, 2009-06-30 Are scientific expert witnesses partisans or spokesmen for objective science This ambiguity has troubled the relations between scientists and the legal system for more than 200 years Modern expert testimony first appeared in the late eighteenth century and while its use steadily increased throughout the nineteenth century in cases involving everything from patents to X rays the respect paid to it steadily declined inside and outside of the courtroom With deep learning and wry humor Tal Golan tells stories of courtroom drama and confusion and media jeering on both sides of the Atlantic until the start of the twenty first century as the courts still search for ways that will allow them to distinguish between good and bad science

Sanitary Reform in Victorian Britain, Part I Vol 3 Michelle Allen-Emerson, Tina Young Choi, Christopher S Hamlin, 2021-12-24 Sanitary reform was one of the great debates of the nineteenth century This reset edition makes available a modern edited collection of rare documents specifically addressing sanitary reform An extensive general introduction sets the material in context and extends the debate to provide a contemporary international perspective

A Cultural History of Chemistry in the Nineteenth Century Peter J. Ramberg, 2023-12-14 A Cultural History of Chemistry in the Nineteenth Century covers the period from 1815 to 1914 and the birth of modern chemistry The elaboration of atomic theory and new ideas of periodicity structure bonding and equilibrium emerged in tandem with new instruments and practices The chemical industry expanded exponentially fuelled by an increasing demand for steel aluminium dyestuffs pharmaceuticals and consumer goods And the chemical laboratory became established in its two distinct modern settings of the university and industry At the turn of the century the discovery of radioactivity took hold of the public imagination drawing chemistry closer to physics even as it threatened to undermine the whole concept of atomism The 6 volume set of the Cultural History of Chemistry presents the first comprehensive history from the Bronze Age to today covering all forms and aspects of chemistry and its ever changing social context The themes covered in each volume are theory and concepts practice and experiment laboratories and technology culture and science society and environment trade and industry learning and institutions art and representation Peter J Ramberg is Professor of the History of Science at Truman State University USA Volume 5 in the Cultural History of Chemistry set General Editors Peter J T Morris University College London UK and Alan Rocke Case Western Reserve University USA

Tools and Modes of Representation in the

Laboratory Sciences U. Klein, 2013-04-17 constitutive of reference in laboratory sciences as cultural sign systems and their manipulation and superposition collectively shared classifications and associated conceptual frameworks and various forms of collective action and social institutions This raises the question of how much modes of representation and specific types of sign systems mobilized to construct them contribute to reference Semioticians have argued that sign systems are not merely passive media for expressing preconceived ideas but actively contribute to meaning Sign systems are culturally loaded with meaning stemming from previous practical applications and social traditions of applications In new local contexts of application they not only transfer stabilized meaning but also can be used as active resources to add new significance and modify previous meaning This view is supported by several analyses presented in this volume Sign systems can be implemented like tools that are manipulated and superposed with other types of signs to forge new representations The mode of representation made possible by applying and manipulating specific types of representational tools such as diagrammatic rather than mathematical representations or Berzelian formulas rather than verbal language contributes to meaning and forges fine grained differentiations between scientists concepts Taken together the essays contained in this volume give us a multifaceted picture of the broad variety of modes of representation in nineteenth century and twentieth century laboratory sciences of the way scientists juxtaposed and integrated various representations and of their pragmatic use as tools in scientific and industrial practice

Scientists and Swindlers Paul Lucier, 2022-02-03 An insightful account of the early fossil fuel industry the rise of the professional consultant and the nexus between science and money Technology and Culture In this impressively researched highly original work Paul Lucier explains how science became an integral part of American technology and industry in the nineteenth century Scientists and Swindlers introduces us to a new service of professionals the consulting scientists Lucier follows these entrepreneurial men of science on their wide ranging commercial engagements from the shores of Nova Scotia to the coast of California and shows how their innovative work fueled the rapid growth of the American coal and oil industries and the rise of American geology and chemistry Along the way he explores the decisive battles over expertise and authority the high stakes court cases over patenting research the intriguing and often humorous exploits of swindlers and the profound ethical challenges of doing science for money Starting with the small surveying businesses of the 1830s and reaching to the origins of applied science in the 1880s Lucier recounts the complex and curious relations that evolved as geologists chemists capitalists and politicians worked to establish scientific research as a legitimate regularly compensated and respected enterprise This sweeping narrative enriches our understanding of how the rocks beneath our feet became invaluable resources for science technology and industry

William Crookes (1832-1919) and the Commercialization of Science William H. Brock, 2016-12-14 William Crookes long life was one of unbroken scientific and business activity culminating in his appointment as President of the Royal Society in 1913 Throughout his career he was an important science journalist the discoverer of thallium the inventor of the radiometer investigator of cathode rays and the

vacuum a spectroscopist of significance in rare earth chemistry and a spokesman for a chemical solution to the problems with the world's food supplies. He was also and perhaps most controversially an occultist who played a significant role in spiritualism in the 1870s and was involved with D D Home, Browning's Mr Sludge and other notable mediums of the day. Previous literature on Crookes has tended to focus on his involvement with the spiritualists, sometimes to the detriment of his many scientific achievements. This, the first biography of William Crookes, gives us the whole man, one of the most complex public and interesting figures in the history of science. Professor Brock guides us through the abundant catalogue of Crookes' accomplishments, placing his scientific activities in the context of the business of making a living from science, something that Crookes did principally as a science journalist and editor with his *Chemical News*, the model for today's *Nature*, and by business enterprises ranging from water analysis, sewerage schemes and goldmining to the design of electric light bulbs. We also see Crookes in the lab as an independent researcher and learn the processes behind his discovery of thallium, his investigations into matter and energy and his crucial work on cathode rays. We see the public man, the celebrity who was much sought after for his opinions on the latest discovery and who was widely regarded as Britain's leading scientist at the beginning of the twentieth century. Scientist, spiritualist, entrepreneur, Sir William Crookes' extraordinary life and many endeavours provide a unique window into Victorian and Edwardian science and industry.

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