

Selections and Reflections:
The Legacy of Sir Lawrence Bragg

edited by

John M. Thomas and Sir David Phillips



Including contributions by ten Nobel Laureates:

Linus Pauling Lord Todd

Dorothy Hodgkin Max Perutz Francis Crick Sir Nevill Mott

Sir Aaron Klug James D. Watson Lord Porter

Sir John Kendrew

Legacy Of Sir Lawrence Bragg

David C. Phillips, John M. Thomas



Legacy Of Sir Lawrence Bragg:

Selections and Reflections David C. Phillips, John M. Thomas, 1990 *Light is a Messenger* Graeme K.

Hunter, 2004-08-12 *Light is a Messenger* is the first biography of William Lawrence Bragg who was only 25 when he won the 1915 Nobel Prize in Physics the youngest person ever to win a Nobel Prize It describes how Bragg discovered the use of X rays to determine the arrangement of atoms in crystals and his pivotal role in developing this technique to the point that structures of the most complex molecules known to Man the proteins and nucleic acids could be solved Although Bragg's Nobel Prize was for physics his research profoundly affected chemistry and the new field of molecular biology of which he became a founding figure This book explains how these revolutionary scientific events occurred while Bragg struggled to emerge from the shadow of his father Sir William Bragg and amidst a career long rivalry with the brilliant American chemist Linus Pauling William and Lawrence Bragg. Father and Son John Jenkin, 2011-04-07 In 1912 Lawrence Bragg explained

the interaction of X rays with crystals and he and his father William thereby pioneered X ray spectroscopy and X ray crystallography They then led the latter field internationally for fifty years when most areas of science were transformed by the knowledge they created physics chemistry geology materials science electronics and most recently biology and medical science This book charts how this humble pair William English his son Australian rose from obscurity to international prominence and then back to current undeserved obscurity Attention is also given to the crucial roles of both father and son during the dreadful years of the First World War and to William's early and unshakeable belief in the dual wave and particle natures of radiation and his eventual vindication Unlike earlier studies the book highlights the intimate interactions between father and son that made their project possible emphasizes personal family and wider human relationships and offers new insights into teaching and research in a British colonial setting **Maxwell's Enduring Legacy** Malcolm

Longair, 2016-07-07 The Cavendish Laboratory is arguably the most famous physics laboratory in the world Founded in 1874 it rapidly gained a leading international reputation through the researches of the Cavendish professors beginning with Maxwell Rayleigh J J Thomson Rutherford and Bragg Its name will always be associated with the discoveries of the electron the neutron the structure of the DNA molecule and pulsars but these are simply the tip of the iceberg of outstanding science The physics carried out in the laboratory is the central theme of the book and this is explained in reasonably non technical terms The research activities are set in their international context Generously illustrated with many pictures of the apparatus used and diagrams from the original papers the story is brought right up to date with descriptions of the science carried out under the leadership of the very different personalities of Mott Pippard and Edwards *The Life And Scientific Legacy Of George Porter* David Phillips, James Barber, 2006-07-07 Sir George Porter Lord Porter of Luddenham was one of the most highly regarded and well known scientists in Britain He was appointed Director of the Royal Institution in 1966 awarded a Nobel Prize in Chemistry in 1967 and was the only Director of the Royal Institution to later become President of the Royal

Society 1985 1990 Porter had a marvellous gift for communicating his infectious enthusiasm for science and as President of the Royal Society he worked hard to improve the status of science and employed his communication skills ably in the defence of British science under attack from inadequate government funding of which he was fiercely critical It was for his work on flash photolysis in Cambridge that ultimately led him to win the Nobel Prize Together with Ronald Norrish and Manfred Eigen he shared the 1967 Nobel Prize for Chemistry for their work on techniques for observing and studying extremely fast chemical reactions during the processes of combustion explosion and chain reaction In this volume his peers former colleagues students and friends themselves highly regarded and well known scientists in their own right come together to honour and celebrate the enormous contributions of this man They comment on their respective personal and working relationships with Porter and on his work The contributors include Mary Archer University of Cambridge UK James Barber Imperial College London UK Godfrey Beddard University of Leeds UK Graham Fleming University California Berkeley USA Michael George University of Nottingham UK Anthony Harriman University of Newcastle Upon Tyne UK David Klug Imperial College London UK Harry Kroto University of Sussex UK Edward Land Keele University UK A J MacRobert University of College London UK David Phillips Imperial College London UK Martyn Poliakoff University of Nottingham UK F Sherwood Rowland University of California Irvine USA Brian Thrush University of Cambridge UK George Truscott Keele University UK James Turner University of Nottingham UK Barry Ward UK Frank Wilkinson Loughborough University of Technology UK Keitaro Yoshihara Japan Advanced Institute of Science and Technology Japan and Ahmed Zewail California Institute of Technology USA a [Albemarle Street](#) John Meurig Thomas,2021-09-23 The Royal Institution of Great Britain is renowned the world over first because it is a premier arena for the advancement of new scientific and technological knowledge and second because it highlights the advance of knowledge of all kinds It bridges the sciences and the humanities and as much publicity is given to advances in the arts archaeology architecture drama and literature as to the pure and applied sciences More famous scientists have lived and worked in the Royal Institution than in any other laboratory in the world A roll call includes Rumford Davy Faraday Tyndall Dewar Rayleigh W H Bragg W L Bragg and George Porter Not is it only the home of continuous electricity it is also the birthplace of many aspects of molecular biology and viruses and enzymology Some fifteen scientists who have won the Nobel Prize have at one time or another worked or lectured at the RI And eminent individuals like Howard Carter and Coleridge have lectured there Albemarle Street Portraits Personalities and Presentations at The Royal institution is a lively and compelling personal selection of the remarkable personalities and achievements of some of the extraordinary scientists and individuals who during the nineteenth and twentieth centuries worked or lectured at 21 Albemarle Street in Mayfair central London John Meurig Thomas offers a unique and valuable insight into the history of this prestigious address having himself lived and worked at the Royal Institution for some twenty years [Vital Forces](#) Graeme K. Hunter,2000-04-07 Vital Forces tells the history of the biochemical revolution a period of unprecedentedly rapid advance

in human knowledge that profoundly affected our view of life and laid the foundation for modern medicine and biotechnology. The story is told in a clear, engaging and absorbing manner. This delightful work relates the fascinating and staggering advances in concepts and theories over the last 200 years and introduces the major figures of the times. Vital Forces also describes the discovery of the molecular basis of life through the stories of the scientists involved, including such towering figures as Louis Pasteur, Gregor Mendel, Linus Pauling and Francis Crick. Combining science and biography into a seamless chronological narrative, the author brings to life the successes and failures, collaborations and feuds, and errors and insights that produced the revolution in biology. Vividly describes dramatic scientific discoveries, personalities, feuds, and rivalries. Answers a general reader's quest to understand the nature of life and the relevance of biochemistry, molecular biology, to modern medicine, industry, and agriculture.

The Life and Legacy of G. I. Taylor G. K. Batchelor, Sir Geoffrey Ingram Taylor, 1996-07-04 G. I. Taylor was one of the most distinguished physical scientists of the last century, using his deep insight and originality and mathematical skill to increase greatly our understanding of phenomena such as the turbulent flow of fluids. His interest in the science of fluid flow was not confined to theory; he was one of the early pioneers of aeronautics and designed a new type of anchor now widely used in small boats throughout the world that came about through his passion for sailing. Taylor spent most of his working life in the Cavendish Laboratory in Cambridge, where he investigated the mechanics of fluid and solid materials; his discoveries and ideas have had application throughout mechanical, civil, and chemical engineering, meteorology, oceanography, and material science. He was also a noted research leader, and his group in Cambridge became one of the most productive centres for the study of fluid mechanics. How was Taylor able to be innovative in so many different ways? This interesting and unusual mix of science and biography, first published in 1996, helps us to answer that question.

Women in Chemistry Marelene F. Rayner-Canham, Geoffrey Rayner-Canham, 1998 Though rarely noted, women have been active participants in the chemical sciences since the beginning of recorded history. This thought-provoking book brings to life the many talented women who, besides the universally respected Marie Curie, made significant contributions to chemistry. The Rayner-Canhams examine the forces that have defined women's roles in the progress of chemistry, observing that many were thwarted from capitalizing on their achievements by the prejudices of their time. Their book discusses women chemists from as far past as the Babylonian civilization but focuses on professional women chemists from the mid 19th century, when women gained access to higher education. Read this book and learn about the chemist assistants of the French salons, about independent researchers in the 19th century, about the three disciplinary havens for women in the 20th century, about how war helped bring women into the chemical industry, and much more.

Nuclear Forces Silvan S. Schweber, 2012-06-18 A highly readable account tracing the future Nobel laureate through his formative years and up to the eve of World War II. The Wall Street Journal. On the fiftieth anniversary of Hiroshima, Nobel-winning physicist Hans Bethe called on his fellow scientists to stop working on weapons of mass destruction. What drove Bethe the

head of Theoretical Physics at Los Alamos during the Manhattan Project to renounce the weaponry he had once worked so tirelessly to create That is one of the questions answered by Nuclear Forces a riveting biography of Bethe s early life and development as both a scientist and a man of principle As Silvan Schweber follows Bethe from his childhood in Germany to laboratories in Italy and England and on to Cornell University he shows how these differing environments were reflected in the kind of physics Bethe produced Many of the young quantum physicists in the 1930s including Bethe had Jewish roots and Schweber considers how Liberal Judaism in Germany helps explain their remarkable contributions A portrait emerges of a man whose strategy for staying on top of a deeply hierarchical field was to tackle only those problems he knew he could solve Bethe s emotional maturation was shaped by his father and by two women of Jewish background his overly possessive mother and his wife who would later serve as an ethical touchstone during the turbulent years he spent designing nuclear bombs Situating Bethe in the context of the various communities where he worked Schweber provides a full picture of prewar developments in physics that changed the modern world and of a scientist shaped by the unprecedented moral dilemmas those developments in turn created Praise for Nuclear Forces Schweber s account of Hans Bethe s life reveals the origins of a charismatic scientist grounded in the importance of his parents and his Jewish roots Schweber recreates the social world that shaped the character of the last of the memorable young scientists who established the field of quantum mechanics Publishers Weekly Nuclear Forces is a carefully researched historically and biographically insightful account of the development of a profession and of one of its leading representatives during a century in which physics and physicists played key roles in scientific cultural political and military developments David C Cassidy author of A Short History of Physics in the American Century

Linus Pauling: Biomolecular sciences Linus Pauling,Barclay Kamb,2001 Linus Pauling wrote a stellar series of over 800 scientific papers spanning an amazing range of fields some of which he himself initiated This book is a selection of the most important of his writings in the fields of quantum mechanics chemical bonding covalent ionic metallic and hydrogen bonding molecular rotation and entropy protein structure hemoglobin molecular disease molecular evolution the antibody mechanism the molecular basis of anesthesia orthomolecular medicine radiation chemistry biology and nuclear structure Through these papers the reader gets a fresh unfiltered view of the genius of Pauling s many contributions to chemistry chemical physics molecular biology and molecular medicine

Linus Pauling - Selected Scientific Papers (In 2 Volumes) - Volume 2 Barclay Kamb,Linda Pauling Kamb,Carl Alexander Kamb,Peter Jeffress Pauling,Linus Pauling Jr,2001-11-02 Linus Pauling wrote a stellar series of over 800 scientific papers spanning an amazing range of fields some of which he himself initiated This book is a selection of the most important of his writings in the fields of quantum mechanics chemical bonding covalent ionic metallic and hydrogen bonding molecular rotation and entropy protein structure hemoglobin molecular disease molecular evolution the antibody mechanism the molecular basis of anesthesia orthomolecular medicine radiation chemistry biology and nuclear structure Through these papers the reader gets a fresh unfiltered view of the genius

of Pauling's many contributions to chemistry, chemical physics, molecular biology, and molecular medicine

Tools and Modes of Representation in the Laboratory Sciences U. Klein, 2001-10-31 Fourteen chapters provide insights into the efforts of 19th and 20th century scientists to construct working representations of invisible objects such as the structural formula of a dye, a three dimensional model of a protein, or a table conveying relationships between chemical elements. The essays focus on scientists' pragmatic use of representation, exploring the concrete ways that scientists implement sign systems as productive tools both to achieve and to shape their organizational goals. Editor Klein is associated with the Max Planck Institute for the History of Science, Berlin. Annotation copyrighted by Book News, Inc., Portland, OR

The Selected Papers of Sir John Meurig Thomas John Meurig Thomas, 2017-07-07 John Meurig Thomas is a former Director of the Royal Institution of Great Britain, a former head of the Department of Physical Chemistry, and former Master of Peterhouse, University of Cambridge. A world renowned solid state materials and surface chemist, he has been an educator, researcher, academic administrator, author of university texts, government advisor, industrial consultant, and trustee of national museums in a career spanning over 50 years. Recipient of many international awards including the Linus Pauling, Willard Gibbs, Kapitza, Natta, Stokes, Davy, and Faraday medals, he is also a fellow of the Royal Society (1977), of the American Philosophical Society (1993), and of ten other national academies. He is best known for his fundamental work in heterogeneous catalysis, chemical electron microscopy, and in the popularisation of science, for which, in conjunction with his services to chemistry, he was knighted (1991). He is also founding editor of three scientific journals and editor or co editor of some 30 monographs. A new mineral, meurigite, was named in his honour (1995). Most recently, in 2016, Sir John was awarded the Royal Medal for Physical Sciences by the Royal Society. Drawn from over 1200 publications, this volume contains a summarised account of Sir John's work with a selection of the new techniques pioneered and discovered by him and his colleagues. Also included are popular science articles and various illustrations of techniques which have enhanced our knowledge of many facets of condensed matter science. Contributions from 80 peers, colleagues, former co-workers, students, and friends worldwide who have interacted with or been influenced by him, are a tribute to the professional and personal life of Sir John, making this book a unique reflective summary of the work of one of the greatest achievers in modern British physical science.

The Secret of Life Howard Markel, 2021-09-21 An NPR Best Book of the Year. An authoritative history of the race to unravel DNA's structure by one of our most prominent medical historians. James Watson and Francis Crick's 1953 discovery of the double helix structure of DNA is the foundation of virtually every advance in our modern understanding of genetics and molecular biology. But how did Watson and Crick do it, and why were they the ones who succeeded? In truth, the discovery of DNA's structure is the story of five towering minds in pursuit of the advancement of science, and for almost all of them, the prospect of fame and immortality. Watson, Crick, Rosalind Franklin, Maurice Wilkins, and Linus Pauling. Each was fascinating and brilliant, with strong personalities that often clashed. Howard Markel skillfully re-creates the intense intellectual journey and

fraught personal relationships that ultimately led to a spectacular breakthrough But it is Rosalind Franklin fiercely determined relentless and an outsider at Cambridge and the University of London in the 1950s as the lone Jewish woman among young male scientists who becomes a focal point for Markel The Secret of Life is a story of genius and perseverance but also a saga of cronyism misogyny anti-Semitism and misconduct Drawing on voluminous archival research including interviews with James Watson and with Franklin's sister Jennifer Glynn Markel provides a fascinating look at how science is done how reputations are undone and how history is written and revised A vibrant evocation of Cambridge in the 1950s Markel also provides colorful depictions of Watson and Crick their competitiveness idiosyncrasies and youthful immaturity and compelling portraits of Wilkins Pauling and most cogently Rosalind Franklin The Secret of Life is a lively and sweeping narrative of this landmark discovery one that finally gives the woman at the center of this drama her due

A History of Modern Chemistry Noboru Hirota, 2016 This publication is a translation of the book entitled Gendai Kagakushi A History of Modern Chemistry published by Kyoto University Press in 2013

Pioneering British Women Chemists: Their Lives And Contributions Marelene Rayner-canham, Geoff Rayner-canham, 2019-12-30 The book neatly illuminates a forgotten history of female chemists and this is not an overstatement It contains a multitude of names events and socio-economic interactions in the pursuit of women's education and professional emancipation that are guaranteed to contain stories that readers will not have heard before It is easily a dip in and dip out type of read allowing simple navigation to specific areas of Britain disciplines and professions Besides highlighting the women who fought against an inherently male dominated system and celebrating their supporters this book also examines the events and the history surrounding their lives and endeavours It pays particular note to the nations of the British Isles and gives equal contribution to those lost in history as to those names we are all so familiar with A fantastic resource that has been excellently researched I am sure it will remain an ageless tribute and reference work

Education in Chemistry Historically British chemistry has been perceived as a solely male endeavour However this perception is untrue the allure of chemistry has attracted British women for centuries past In this new book the authors trace the story of women's fascination with chemistry back to the amateur women chemists of the late 1500s From the 1880s pioneering academic girls' schools provided the knowledge base and enthusiasm to enable their graduates to enter chemistry degree programs at university The ensuing stream of women chemistry graduates made interesting and significant contributions to their fields yet they have been absent from the historical record In addition to the broad picture the authors focus upon the life and contributions of some of the individual women chemists who were determined to survive and flourish in their chosen field From secondary school to university to industry some of the women chemists expressed their sentiments and enthusiasm in chemistry verse Examples of their poetic efforts are sprinkled throughout to give a unifying theme from grade school to university and industrial employment This book provides a well researched glimpse into the forgotten world of British women in chemistry up to the 1930s and 1940s

Crystal Structure

Analysis for Chemists and Biologists Jenny P. Glusker, Mitchell Lewis, Miriam Rossi, 1996-12-17 The fields of structural chemistry and biochemistry have blossomed in the last seventy years since X ray diffraction was discovered in 1912 Dorothy Hodgkin who obtained a Nobel Prize in 1965 for her X ray diffraction work wrote a great advantage of X ray analysis as a method of chemical structure analysis is its power to show some totally unexpected and surprising structure with at the same time complete certainty The results of all X ray diffraction studies are used by chemists and buiochemists but these scientists need to be able to appreciate the significance and extent to which these results may be used A number of books written for practicing crystallographers cover the theory and applications of X ray diffraction but few are of real practical use to non specialists In Crystal Structure Analysis for Biologists and Chemists the general principles of crystal structure are presented in a highly readable way The book of Glusker who is internationally renowned provides good coverage of theory including data and understanding their significance

The Making of Modern Science David Knight, 2013-04-26 Of all the inventions of the nineteenth century the scientist is one of the most striking In revolutionary France the science student taught by men active in research was born and a generation later the graduate student doing a PhD emerged in Germany In 1833 the word scientist was coined forty years later science increasingly specialised was a becoming a profession Men of science rivalled clerics and critics as sages they were honoured as national treasures and buried in state funerals Their new ideas invigorated the life of the mind Peripatetic congresses great exhibitions museums technical colleges and laboratories blossomed and new industries based on chemistry and electricity brought prosperity and power economic and military Eighteenth century steam engines preceded understanding of the physics underlying them but electric telegraphs and motors were applied science based upon painstaking interpretation of nature The ideas discoveries and inventions of scientists transformed the world lives were longer and healthier cities and empires grew societies became urban rather than agrarian the local became global And by the opening years of the twentieth century science was spreading beyond Europe and North America and women were beginning to be visible in the ranks of scientists Bringing together the people events and discoveries of this exciting period into a lively narrative this book will be essential reading both for students of the history of science and for anyone interested in the foundations of the world as we know it today

Turning Points in Solid-State, Materials and Surface Science Kenneth D M Harris, Peter P Edwards, 2007-11-30 The scientific exploration of solid materials represents one of the most important fascinating and rewarding areas of scientific endeavour in the present day not only from the viewpoint of advancing fundamental understanding but also from the industrial perspective given the immense diversity of applications of solid materials across the full range of commercial sectors Turning Points in Solid State Materials and Surface Science provides a state of the art survey of some of the most important recent developments across the spectrum of solid state materials and surface sciences while at the same time reflecting on key turning points in the evolution of this scientific discipline and projecting into the directions for future research progress The book serves as a timely tribute to the life and

work of Professor Sir John Meurig Thomas FRS who has made monumental contributions to this field of science throughout his distinguished 50 year career in research during which he has initiated developed and exploited many important branches of this field Indeed the depth and breadth of his contributions towards the evolution and advancement of this scientific discipline and his critical role in elevating this field to the important position that it now occupies within modern science are demonstrated recurrently throughout the chapters of this book Individual chapters are contributed by internationally leading experts in their respective fields and the topics covered include solid state chemistry of inorganic and organic materials heterogeneous catalysis surface science and materials science with one section of the book focusing on modern developments in electron microscopy and its contributions to chemistry and materials science The book serves as a modern and up to date monograph in these fields and provides a valuable resource to researchers in academia and industry who require a comprehensive source of information on this important and rapidly developing subject

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