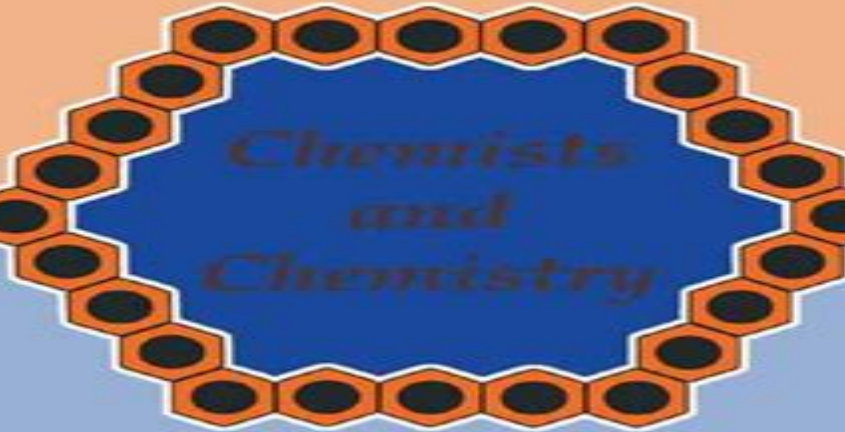


# Scaling Up

**The Institution of Chemical Engineers  
and the Rise of a New Profession**

Colin Divall and Sean F. Johnston  
*with a chapter by James F. Donnelly*



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# Scaling Up The Institution Of Chemical Engineers And The Rise Of A New Profession

**Sean F. Johnston**



## **Scaling Up The Institution Of Chemical Engineers And The Rise Of A New Profession:**

*Scaling Up* Colin Divall, Sean F. Johnston, 2010-12-06 Chemical engineering as a recognised skill in the workplace as an academic discipline and as an acknowledged profession is scarcely a century old Yet from a contested existence before the First World War chemical engineering had become one of the big four engineering professions in Britain and a major contributor to Western economies by the end of the twentieth century The subject had distinct national trajectories In Britain too long seen as shaped by American experiences the emergence of recognised chemical engineers was the result of professional aspirations and contingency and shaped by a shifting ecology of institutions firms and government Drawing upon extensive archival research this book examines the evolution of technical practice working environment and social interactions of chemical engineering It will be of considerable interest to historians sociologists of the professions and to practitioners themselves

*The Cambridge History of Science: Volume 8, Modern Science in National, Transnational, and Global Context* Hugh Richard Slotten, Ronald L. Numbers, David N. Livingstone, 2020-04-09 This volume in the highly respected Cambridge History of Science series is devoted to exploring the history of modern science using national transnational and global frames of reference Organized by topic and culture its essays by distinguished scholars offer the most comprehensive and up to date nondisciplinary history of modern science currently available Essays are grouped together in separate sections that represent larger regions Europe Africa the Middle East South Asia East and Southeast Asia the United States Canada Australia New Zealand Oceania and Latin America Each of these regional groupings ends with a separate essay reflecting on the analysis in the preceding chapters Intended to provide a balanced and inclusive treatment of the modern world contributors analyze the history of science not only in local national and regional contexts but also with respect to the circulation of knowledge tools methods people and artifacts across national borders

**Chemical Engineering: Visions of the World** R. C. Darton, D. G. Wood, R. G. H. Prince, 2003-05-21 This book presents six visionary essays on the past present and future of the chemical and process industries together with a critical commentary Our world is changing fast and the visions explore the implications for business and academic institutions and for the professionals working in them The visions were written and brought together for the 6th World Congress of Chemical Engineering in Melbourne Australia in September 2001 Identifies trends in the chemicals business environment and their consequences Discusses a wide variety of views about business and technology Describes the impact of newly developing technologies

**Cambridge Handbook of Engineering Education Research** Aditya Johri, Barbara M. Olds, 2014-02-10 The Cambridge Handbook of Engineering Education Research is the critical reference source for the growing field of engineering education research featuring the work of world luminaries writing to define and inform this emerging field The Handbook draws extensively on contemporary research in the learning sciences examining how technology affects learners and learning environments and the role of social context in learning Since a landmark issue of the Journal of Engineering Education 2005

in which senior scholars argued for a stronger theoretical and empirically driven agenda engineering education has quickly emerged as a research driven field increasing in both theoretical and empirical work drawing on many social science disciplines disciplinary engineering knowledge and computing The Handbook is based on the research agenda from a series of interdisciplinary colloquia funded by the US National Science Foundation and published in the Journal of Engineering Education in October 2006

**Science and Modern India: An Institutional History, c.1784-1947: Project of History of Science, Philosophy and Culture in Indian Civilization, Volume XV, Part 4** Das Gupta,1900 Science and Modern India An Institutional History c 1784 1947 Project of History of Science Philosophy and Culture in Indian Civilization Volume XV Part 4 comprises chapters contributed by eminent scholars It discusses the historical background of the establishment of science institutes that were established in pre Independence India and still exist their functions and their present status This volume discusses Indian science institutes that specialize in a particular field It also delves into the area of engineering sciences

The Routledge Handbook of the Philosophy of Engineering Diane P. Michelfelder,Neelke Doorn,2020-12-29 Engineering has always been a part of human life but has only recently become the subject matter of systematic philosophical inquiry The Routledge Handbook of the Philosophy of Engineering presents the state of the art of this field and lays a foundation for shaping future conversations within it With a broad scholarly scope and 55 chapters contributed by both established experts and fresh voices in the field the Handbook provides valuable insights into this dynamic and fast growing field The volume focuses on central issues and debates established themes and new developments in Foundational perspectives Engineering reasoning Ontology Engineering design processes Engineering activities and methods Values in engineering Responsibilities in engineering practice Reimagining engineering The Routledge Handbook of the Philosophy of Engineering will be of value for both students and active researchers in philosophy of engineering and in cognate fields philosophy of technology philosophy of design It is also intended for engineers working both inside and outside of academia who would like to gain a more fundamental understanding of their particular professional field The increasing development of new technologies such as autonomous vehicles and new interdisciplinary fields such as human computer interaction calls not only for philosophical inquiry but also for engineers and philosophers to work in collaboration with one another At the same time the demands on engineers to respond to the challenges of world health climate change poverty and other so called wicked problems have also been on the rise These factors together with the fact that a host of questions concerning the processes by which technologies are developed have arisen make the current Handbook a timely and valuable publication

**Science at the end of empire** Sabine Clarke,2018-09-13 This electronic version has been made available under a Creative Commons BY open access license This book is open access under a CC BY license This is the first account of Britain s plans for industrial development in its Caribbean colonies something that historians have usually said Britain never contemplated It shows that Britain s remedy to the poor economic conditions in the Caribbean gave a key role to laboratory

research to re invent sugarcane as the raw material for making fuels plastics and drugs Science at the end of empire explores the practical and also political functions of scientific research and economic advisors for Britain at a moment in which Caribbean governments operated with increasing autonomy and the US was intent on expanding its influence in the region Britain s preferred path to industrial development was threatened by an alternative promoted through the Caribbean Commission The provision of knowledge and expertise became key routes by which Britain and America competed to shape the future of the region and their place in it The Neutron's Children Sean Johnston,2012-04-26 This account tracks the Allied atomic energy experts who emerged from the Manhattan Project to explore optimistic but distinct paths in the USA UK and Canada Characterized successively as admired atomic scientists mistrusted spies and heroic engineers their identities were ultimately shaped by nuclear accidents *Progressive Enlightenment* Leslie Tomory,2012 An argument that the gas industry was the first integrated large scale technological network and that it signaled a new wave of industrial innovation In *Progressive Enlightenment* Leslie Tomory examines the origins of the gaslight industry from invention to consolidation as a large integrated urban network Tomory argues that gas was the first integrated large scale technological network a designation usually given to the railways He shows how the first gas network was constructed and stabilized through the introduction of new management structures the use of technical controls and the application of means to constrain the behavior of the users of gas lighting Tomory begins by describing the contributions of pneumatic chemistry and industrial distillation to the development of gas lighting then explores the bifurcation between the Continental and British traditions in distillation technology He examines the establishment and consolidation of the new industry by the Birmingham firm Boulton Watt and describes the deployment of the network strategy by the entrepreneur Frederick Winsor Tomory argues that the gas industry represented a new wave of technological innovation in industry because of its dependence on formal scientific research its need for large amounts of capital and its reliance on business organization beyond small firms and partnerships all of which signaled a departure from the artisanal nature and limited deployment of inventions earlier in the Industrial Revolution Gas lighting was the first important realization of the Enlightenment dream of science in the service of industry

The Chemical Engineer ,2001 **Information Sources in Engineering** Roderick A. Macleod,Jim Corlett,2012-04-17

The current thoroughly revised and updated edition of this approved title evaluates information sources in the field of technology It provides the reader not only with information of primary and secondary sources but also analyses the details of information from all the important technical fields including environmental technology biotechnology aviation and defence nanotechnology industrial design material science security and health care in the workplace as well as aspects of the fields of chemistry electro technology and mechanical engineering The sources of information presented also contain publications available in printed and electronic form such as books journals electronic magazines technical reports dissertations scientific reports articles from conferences meetings and symposiums patents and patent information technical standards products

electronic full text services abstract and indexing services bibliographies reviews internet sources reference works and publications of professional associations Information Sources in Engineering is aimed at librarians and information scientists in technical fields as well as non professional information specialists who have to provide information about technical issues Furthermore this title is of great value to students and people with technical professions **Holographic Visions** Sean F. Johnston, 2006-04-06 Holography exploded on the scientific world in 1964 but its slow fuse had been burning much longer Over the next four decades the echoes of that explosion reached scientists engineers artists and popular culture Emerging from classified military research holography evolved to represent the power of post war physics an aesthetic union of art and science the countercultural meanderings of holism a cottage industry for waves of would be entrepreneurs and a fertile plot device for science fiction New working cultures sprang up to mutate holography redefining its products reshaping its audiences and reconceiving its applications The outcomes included ever more sublime holograms and exquisitely sensitive measuring techniques but also priority disputes prurience and poisonous business rivalries New subjects cross intellectual borders and so do their explanations This book draws on the history and philosophy of science and technology social studies politics and cultural history to trace the trajectory of holography The result is an in depth account of how new science emerges Based on unprecedented interviews with pioneer holographers and extensive archival research it reveals how science technology art and wider culture are entwined in the modern world *A History of Light and Colour Measurement* Sean F. Johnston, 2015-05-05 2003 Paul Bunge Prize of the Hans R Jenemann Foundation for the History of Scientific Instruments Judging the brightness and color of light has long been contentious Alternately described as impossible and routine it was beset by problems both technical and social How trustworthy could such measurements be Was the best standard of inten History of Science, Philosophy and Culture in Indian Civilization: pt. 1. Science, technology, imperialism and war Debi Prasad Chattopadhyaya, 1999 *Applied Science* Robert Bud, 2024-03-28 For almost two centuries the category of applied science was widely taken to be both real and important Then its use faded How could an entire category of science appear and disappear By taking a longue dur e approach to British attitudes across the nineteenth and twentieth centuries Robert Bud explores the scientific and cultural trends that led to such a dramatic rise and fall He traces the prospects and consequences that gave the term meaning from its origins to its heyday as an elixir to cure many of the economic cultural and political ills of the UK eventually overtaken by its competitor technology Bud examines how applied science was shaped by educational and research institutions sociotechnical imaginaries and political ideologies and explores the extent to which non scientific lay opinion mediated by politicians and newspapers could become a driver in the classification of science *Globalizing Physics* Roberto Lalli, Jaume Navarro, 2024-07-09 This is an open access book available under the terms of a CC BY NC ND 4.0 International licence It is free to read on the Oxford Academic platform and offered as a free PDF download from OUP and selected open access locations Following the centenary of the International

Union of Pure and Applied Physics this volume features contributions from leading science historians from around the world on the changing roles of the institution in international affairs from its foundation in 1922 to the present The case studies presented in this volume show the multitude of functions that IUPAP had and how these were related to the changing international political contexts The book is divided into three parts The first discusses the interwar period demonstrating how the exclusion of communities of the Central Powers from international scientific institutions imposed by victorious allied countries made IUPAP ineffective until the end of World War II The second part analyzes the changing roles assumed by IUPAP starting from its complete renovation after World War II Case studies covering the role of IUPAP in physics education in metrology in joint commissions with other unions and in defining the complex relations between pure and applied physics provide examples of IUPAP's impact on the world of science Part III squarely addresses the science diplomacy aspects of IUPAP during the Cold War highlighting the importance of IUPAP in furthering diplomatic goals and explaining the origin of the pursuit of the free circulation of scientists as the activity that characterized the main function of international unions during the Cold War Highlighting how often scientific agendas and political imperatives were entangled in the activities of IUPAP the book analyzes the work of the Union as exercises of science diplomacy thus contributing to the current debate on the use of science and technology in international relations

**A Cultural History of Chemistry in the Modern Age** Peter J. T. Morris, 2023-12-14 A Cultural History of Chemistry in the Modern Age covers the period from 1914 to the present The impact of chemistry and the chemical industry on science war society and the economy has made this era the Chemical Age Having prospered in the West chemical science spread across the globe and slowly became more diversified in terms of its ethnic and gendered mix After flourishing for sixty years the chemical industry was impacted by the Oil Crisis of the 1970s and became almost invisible in the West While the industry has clearly delivered many benefits to society such as new materials and better drugs it has been excoriated by critics for its impact on the environment 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 T Morris is Honorary Research Associate at the Science Museum London and at University College London UK Volume 6 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

**A Companion to Early Twentieth-Century Britain** Chris Wrigley, 2008-04-15 This Companion brings together 32 new essays by leading historians to provide a reassessment of British history in the early twentieth century The contributors present lucid introductions to the literature and debates on major aspects of the political social and economic history of Britain between 1900 and 1939 Examines controversial issues over the social impact of the First World War especially on women Provides substantial

coverage of changes in Wales Scotland and Ireland as well as in England Includes a substantial bibliography which will be a valuable guide to secondary sources      **Chemical Heritage** ,2003      **The New Walford Guide to Reference Resources**  
Ray Lester,2005 The New Walford highlights the best resources to use when undertaking a search for accurate and relevant information saving you precious time and effort For those looking for a selective and evaluative reference resource that really delivers on its promise look no further In addition to print sources The New Walford naturally covers an extensive range of e reference sources such as digital databanks digital reference services electronic journal collections meta search engines networked information services open archives resource discovery services and websites of premier organizations in both the public and private sectors But rather than supplying a list of all available known resources as a web search engine might The New Walford subject specialists have carefully selected and evaluated available resources to provide a definitive list of the most appropriate and useful With an emphasis on quality and sustainability the subject specialists have been careful to assess the differing ways that information is framed and communicated in different subject areas As a result the resource evaluations in each subject area are prefaced by an introductory overview of the structure of the relevant literature This ensures that The New Walford is clear easy to use and intuitive Publisher



The book delves into Scaling Up The Institution Of Chemical Engineers And The Rise Of A New Profession. Scaling Up The Institution Of Chemical Engineers And The Rise Of A New Profession is a crucial topic that must be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Scaling Up The Institution Of Chemical Engineers And The Rise Of A New Profession, encompassing both the fundamentals and more intricate discussions.

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