

# THE RISE OF SCIENTIFIC EUROPE 1500 - 1800



Edited by David Goodman and Colin A. Russell

# Scientific Europe

**Ramananda Chatterjee**



## Scientific Europe:

**Research and development** ,2001      Science Policy and Public Affairs in Europe Jean Jacques Salomon,1968      *The Emergence of a Scientific Culture* Stephen Gaukroger,2008-10-23 Why did science emerge in the West and how did scientific values come to be regarded as the yardstick for all other forms of knowledge Stephen Gaukroger shows just how bitterly the cognitive and cultural standing of science was contested in its early development Rejecting the traditional picture of secularization he argues that science in the seventeenth century emerged not in opposition to religion but rather was in many respects driven by it Moreover science did not present a unified picture of nature but was an unstable field of different often locally successful but just as often incompatible programmes To complicate matters much depended on attempts to reshape the persona of the natural philosopher and distinctive new notions of objectivity and impartiality were imported into natural philosophy changing its character radically by redefining the qualities of its practitioners The West's sense of itself its relation to its past and its sense of its future have been profoundly altered since the seventeenth century as cognitive values generally have gradually come to be shaped around scientific ones Science has not merely brought a new set of such values to the task of understanding the world and our place in it but rather has completely transformed the task redefining the goals of enquiry This distinctive feature of the development of a scientific culture in the West marks it out from other scientifically productive cultures In *The Emergence of a Scientific Culture* Stephen Gaukroger offers a detailed and comprehensive account of the formative stages of this development and one which challenges the received wisdom that science was seen to be self evidently the correct path to knowledge and that the benefits of science were immediately obvious to the disinterested observer      *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      The Geography of Scientific Collaboration Agnieszka Olechnicka,Adam Ploszaj,Dorota Celińska-Janowicz,2018-10-08 Science is increasingly defined by multidimensional collaborative networks Despite the unprecedented growth of scientific collaboration around the globe the collaborative turn geography still matters for the cognitive enterprise This book explores how geography conditions scientific collaboration and

how collaboration affects the spatiality of science This book offers a complex analysis of the spatial aspects of scientific collaboration addressing the topic at a number of levels individual organizational urban regional national and international Spatial patterns of scientific collaboration are analysed along with their determinants and consequences By combining a vast array of approaches concepts and methodologies the volume offers a comprehensive theoretical framework for the geography of scientific collaboration The examples of scientific collaboration policy discussed in the book are taken from the European Union the United States and China Through a number of case studies the authors analyse the background development and evaluation of these policies This book will be of interest to researchers in diverse disciplines such as regional studies scientometrics R D policy socio economic geography and network analysis It will also be of interest to policymakers and to managers of research organisations The Open Access version of this book available at <http://www.taylorfrancis.com> has been made available under a Creative Commons Attribution Non Commercial No Derivatives 4.0 license

*The Community of Science in Europe* Mark N. Franklin, 1988

**Putting Science in Its Place** David N. Livingstone, 2010-04-15 We are accustomed to thinking of science and its findings as universal After all one atom of carbon plus two of oxygen yields carbon dioxide in Amazonia as well as in Alaska a scientist in Bombay can use the same materials and techniques to challenge the work of a scientist in New York and of course the laws of gravity apply worldwide Why then should the spaces where science is done matter at all David N Livingstone here puts that question to the test with his fascinating study of how science bears the marks of its place of production Putting Science in Its Place establishes the fundamental importance of geography in both the generation and the consumption of scientific knowledge using historical examples of the many places where science has been practiced Livingstone first turns his attention to some of the specific sites where science has been made the laboratory museum and botanical garden to name some of the more conventional locales but also places like the coffeehouse and cathedral ship s deck and asylum even the human body itself In each case he reveals just how the space of inquiry has conditioned the investigations carried out there He then describes how on a regional scale provincial cultures have shaped scientific endeavor and how in turn scientific practices have been instrumental in forming local identities Widening his inquiry Livingstone points gently to the fundamental instability of scientific meaning based on case studies of how scientific theories have been received in different locales Putting Science in Its Place powerfully concludes by examining the remarkable mobility of science and the seemingly effortless way it moves around the globe From the reception of Darwin in the land of the Maori to the giraffe that walked from Marseilles to Paris Livingstone shows that place does matter even in the world of science

*Scientific American*, 1892

*Scientific Europe* Claus Madsen, 2010 Drawing heavily on his own experiences Madsen discusses the development of the European Research Area and obstacles still facing efforts to create a competitive knowledge based economy

**European Scientific Notes**, 1966

**The European Public's Attitudes to Scientific and Technical Development** Commission of the European Communities, 1979

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web chapter 25 nuclear chemistry i natural radioactivity a nuclear reaction is any reaction where the nucleus of an atom changes composition b radioactivity spontaneous emissions accompanying changes in nuclei of atoms c protons are positively charged and hence repel each other so the

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web of nuclear science and engineering is a key reference for any physicists or engineer radiochemistry or nuclear chemistry is the study of radiation from an atomic or molecular perspective including elemental transformation and reaction effects as well as physical health and medical properties

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web oct 30 2014 in nuclear reactions the nuclei of unstable isotopes called radioisotopes gain stability by undergoing changes 25 1 radioactivity an unstable nucleus releases energy by emitting radiation during the process of radioactive decay 25 1 the three main types of nuclear radiation are alpha radiation beta radiation and gamma radiation

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web sodium 23 in a sample of  $\text{NaCl}$  is subjected to neutron bombardment in a nuclear reactor to produce  $^{24}\text{Na}$  when removed from the reactor the sample is radioactive with beta activity of  $2.54 \times 10^4 \text{ dpm}$  the decrease in radioactivity over time was studied producing the following data