

Sociology of the Sciences

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Scientific Establishments and Hierarchies

Edited by Norbert Elias, Herminio Martins,
and Richard Whitley



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Scientific Establishments And Hierarchies

William Bechtel



Scientific Establishments And Hierarchies:

Scientific Establishments and Hierarchies N. Elias, H. Martins, Richard P. Whitley, 2012-12-06 In recent years sociologists of sciences have become more interested in scientific elites in the way they direct and control the development of sciences and beyond that in which the organization of research facilities and resources generally affects research strategies and goals In this volume we focus on scientific establishments and hierarchies as a means of bringing aspects of these concerns together in their historical and comparative contexts These terms draw attention to the fact that much scientific work has been pursued within a highly specific organizational setting that of universities and academic research institutes The effects of this organizational setting as well as its power relations and its resources in relation to governmental and other non scientific establishments in society at large deserve closer attention One significant aspect of scientific establishments and hierarchies and of the power relations impinging upon scientific research is the fact that the bulk of leading scientists have the professional career qualifications and status of a professor As heads or senior members of departments institutes and laboratories professors form the ruling groups of scientific work They are the main defenders of scientific or departmental autonomy accept or resist innovations in their field play a leading part in fighting scientific controversies or establishing consensus Even where research units are not directly controlled by professors authority structures usually remain strongly hierarchical These hierarchies too deserve attention in any exploration of the social characteristics of scientific knowledge and its production *Scientific Establishments and Hierarchies* Norbert ELIAS, 1982

Structures of Scientific Collaboration Wesley Shrum, Joel Genuth, Ivan Chompalov, 2007 How technology and bureaucracy shape collaborative scientific research projects an empirical study of multiorganizational collaboration in the physical sciences Collaboration among organizations is rapidly becoming common in scientific research as globalization and new communication technologies make it possible for researchers from different locations and institutions to work together on common projects These scientific and technological collaborations are part of a general trend toward more fluid flexible and temporary organizational arrangements but they have received very limited scholarly attention Structures of Scientific Collaboration is the first study to examine multi organizational collaboration systematically drawing on a database of 53 collaborations documented for the Center for History of Physics of the American Institute of Physics By integrating quantitative sociological analyses with detailed case histories Shrum Genuth and Chompalov pioneer a new and truly interdisciplinary method for the study of science and technology Scientists undertake multi organizational collaborations because individual institutions often lack sufficient resources including the latest technology to achieve a given research objective The authors find that collaborative research depends on both technology and bureaucracy scientists claim to abhor bureaucracy but most collaborations use it constructively to achieve their goals The book analyzes the structural elements of collaboration among them formation size and duration organization technological practices and participant experiences and the relationships

among them The authors find that trust though viewed as positive is not necessarily associated with successful projects indeed the formal structures of bureaucracy reduce the need for high levels of trust and make possible the independence so valued by participating scientists

Norbert Elias and the Sociology of Education Eric Lybeck, 2019-09-05 This is the first book to apply the sociology of Norbert Elias to the field of sociology of education offering fruitful lines of research developed from the application of Elias's theoretical framework Beginning by introducing Elias's theory to those who are unfamiliar with it Lybeck goes on to explore ways his work can be applied to areas of education research including widening participation education and the state and the development of knowledge Topics discussed in detail include the relationship between social control and self control the difference between involvement and detachment in research and the concept of game models to explain unintended consequences in education policy Lybeck also situates Elias's thought alongside other key thinkers including Bourdieu Foucault and Abbott whose theories have been widely applied in education research An Eliasian or figurational sociology of education points to more historical processual and post critical approaches to education studies As the first book to open up Elias's work to researchers and students in education a range of familiar topics including identity decolonization and globalization can be seen in a new light

The Intellectual and Social Organization of the Sciences Richard Whitley, 2000 In a rapidly changing and interdisciplinary world it is important to understand the nature and generation of knowledge and its social organization Increasing attention is paid in the social sciences and management studies to the constitution and claims of different theories perspectives and paradigms This book is one of the most respected and robust analyses of these issues For this new paperback edition Richard Whitley a leading figure in European business education has written a new introduction which addresses the particular epistemological issues presented by management and business studies He approaches the sciences as differently organized systems for the production and validation of knowledge systems which become established in particular contexts and which generate different sorts of knowledge He identifies seven major types of scientific field and discusses the establishment and growth of these sciences including the major consequences of the nineteenth century expansion of employment opportunities for researchers the competitive pursuit of public reputations and the domination of intellectual work by employees He also examines the divergences in the way research is organized and controlled both in different fields and in the same field within different historical circumstances This book will be of interest to all graduate students concerned with the social study of knowledge science technology and the history and philosophy of science

The Ends Of Science Harry Redner, 2019-07-11 In this path breaking and controversial book Harry Redner provides a systematic study of how the epistemologically interesting features of contemporary science are to be understood Taking science to include knowledge from the social sciences and humanities as well as the physical sciences Redner shows how the history of science philosophical theory and current scientific research reveal connections between scientific developments and features of the social organization of science Redner argues that the

shift from Classical science to a more complex and less orderly World science after World War II has changed the way scientific research is done and how its knowledge is organized His aim however is not merely to interpret science but to change it Thus this examination is more than a survey and critique it is a positive program for the development of future science Remarkable for its breadth and insight the book is especially valuable for its discussions of authority and social organization with the accompanying themes of academic politics competition power and corruption and for its catalog of the various contemporary critiques of science Some of these are European in origin and will be new to many U S readers A tour de force on several levels this book is essential reading for scientists philosophers sociologists of science historians of ideas critics of contemporary culture and indeed for anyone who takes a serious interest in scientific research and higher learning

World Views and Scientific Discipline Formation W.R. Woodward, Robert S. Cohen, 2012-12-06 The various efforts to develop a Marxist philosophy of science in the one time socialist countries were casualties of the Cold War Even those who were in no way Marxists and those who were undogmatic in their Marxisms now confront a new world All the more harsh is it for those who worked within the framework imposed upon professional philosophy by the official ideology Here in this book we are concerned with some 31 colleagues from the late German Democratic Republic representative in their scholarship of the achievements of a curiously creative while dismayingly repressive period The literature published in the GDR was blossoming certainly in the final decade but it developed within a totalitarian regime where personal careers either advanced or faltered through the private protection or denunciation of mentors We will never know how many good minds did not enter the field of philosophy in the first place due to their prudent judgments that there was a virtual requirement that the candidate join the Socialist Unity i e Communist Party Among those who started careers and were sidetracked the record is now beginning to be revealed and for the rest the price of doing philosophy was mostly silence in the face of harassments the likes of which make academic politics in the West seem child s play **Routledge Library Editions: Artificial**

Intelligence Various, 2021-06-23 Artificial Intelligence AI a term coined in the 1950s actually dates back as far as 1943 Now very much in the public consciousness AI research has fallen in and out of favour over the years Routledge Library Editions Artificial Intelligence 10 Volumes brings together as one set or individual volumes a small interdisciplinary series of previously out of print titles originally published between 1970 and 1994 Covering ground in computer science literature philosophy psychology psychotherapy and sociology this set is a fascinating insight into the development of ideas surrounding AI

Social Studies of Science and Technology: Looking Back, Ahead B. Joerges, H. Nowotny, 2012-12-06 BERNW ARD JOERGES AND HELGA NOWOTNY YET ANOTHER TURN The thing that doesn t fit is the thing that s most interesting Richard Feynman This volume was originally conceived as a contribution to yet another turn not captured by one of the many adjectives that have served to describe the collective meandering of the scholarly community in search of direction It was meant to mark the millennial turn a seemingly purely chronological event but one in search for great

meanings and invested with loaded significances The editors wanted to seize the opportunity of the moment in order to pause and reflect on the sociology and history of social studies of science and technology The moment came and went and the new millennium barely nine months later thrust its historical marker upon the world through a horrendous and cruel shock in an unforeseen and unforeseeable way Since then the world appears more vulnerable and volatile fragmented and fraught with uncertainty The universal values as bequeathed by the Enlightenment are either refused or appear refuted The dream of a universal civilization which has accompanied the unfolding of the existing multiple modernities in their historically unique trajectories has been discarded and its promises in tatters

Social History of Knowledge Peter Burke, 2013-05-31 In this book Peter Burke adopts a socio cultural approach to examine the changes in the organization of knowledge in Europe from the invention of printing to the publication of the French Encyclop die The book opens with an assessment of different sociologies of knowledge from Mannheim to Foucault and beyond and goes on to discuss intellectuals as a social group and the social institutions especially universities and academies which encouraged or discouraged intellectual innovation Then in a series of separate chapters Burke explores the geography anthropology politics and economics of knowledge focusing on the role of cities academies states and markets in the process of gathering classifying spreading and sometimes concealing information The final chapters deal with knowledge from the point of view of the individual reader listener viewer or consumer including the problem of the reliability of knowledge discussed so vigorously in the seventeenth century One of the most original features of this book is its discussion of knowledges in the plural It centres on printed knowledge especially academic knowledge but it treats the history of the knowledge explosion which followed the invention of printing and the discovery of the world beyond Europe as a process of exchange or negotiation between different knowledges such as male and female theoretical and practical high status and low status and European and non European Although written primarily as a contribution to social or socio cultural history this book will also be of interest to historians of science sociologists anthropologists geographers and others in another age of information explosion

The Question of Artificial Intelligence Brian P. Bloomfield, 2018-05-15 Originally published in 1987 when Artificial Intelligence AI was one of the most hotly debated subjects of the moment there was widespread feeling that it was a field whose time had come that intelligent machines lay just around the corner Moreover with the onset of the revolution in information technology and the proclamation from all corners that we were moving into an information society developments in AI and advanced computing were seen in many countries as having both strategic and economic importance Yet aside from the glare of publicity that tends to surround new scientific ideas or technologies it must be remembered that AI was a relative newcomer among the sciences that it had often been the subject of bitter controversy and that though it had been promising to create intelligent machines for some 40 years prior to publication many believe that it had actually displayed very little substantive progress With this background in mind the aim of this collection of essays was to take a novel look at AI Rather than following the path of old well trodden

arguments about definitions of intelligence or the status of computer chess programs the objective was to bring new perspectives to the subject in order to present it in a different light Indeed instead of simply adding to the endless wrangling for and against AI the source of such divisions is made a topic for analysis in its own right Drawing on ideas from the philosophy and sociology of scientific knowledge this collection therefore broke new ground Moreover although a great deal had been written about the social and cultural impact of AI little had been said of the culture of AI scientists themselves including their discourse and style of thought as well as the choices judgements negotiations and competitive struggles for resources that had shaped the genesis and development of the paradigmatic structure of their discipline at the time Yet sociologists of science have demonstrated that the analysis of factors such as these is a necessary part of understanding the development of scientific knowledge Hence it was hoped that this collection would help to redress the imbalance and provide a broader and more interesting picture of AI

Nature and Sociology Tim Newton, 2007-08-07 This book engages with and contests the new sociology of nature It moves beyond existing debates by presenting new social theory and working across current fields of interest addressing the debate on new genetics and genomics taking human biology seriously and the issues of interdisciplinarity that are likely to arise in longer term attempts to work across the social and natural world Nature and Sociology will be of great interest to students of a variety of disciplines including sociology and social science human geography social and biological anthropology and the natural sciences

Philosophy of Science William Bechtel, 2013-12-16 This text focuses on two major issues the nature of scientific inquiry and the relations between scientific disciplines Designed to introduce the basic issues and concepts in the philosophy of science Bechtel writes for an audience with little or no philosophical background The first part of the book explores the legacy of Logical Positivism and the subsequent post Positivist developments in the philosophy of science The second section examines arguments for and against using a model of theory reduction to integrate scientific disciplines The book concludes with a chapter describing non reductionist approaches for relating scientific disciplines using psycholinguistic and cognitive neuroscience models

Integrating Scientific Disciplines William Bechtel, 2012-12-06 Interdisciplinary research has been a popular idea with many people in the last 20 years Academic administrators have admonished their faculty to become more interdisciplinary Students often request the chance to pursue an interdisciplinary degree While the issue of managing interdisciplinary projects has received a fair amount of attention by those interested in science management interdisciplinary research has received little attention from historians philosophers or sociologists of science or from scientists themselves Yet there are a number of cases within the life sciences where researchers have been actively engaged in endeavors that take them across disciplinary boundaries These are ripe for investigation by those interested in the process of science To provide an in depth study of some historical or contemporary cases of cross disciplinary research activity in the life sciences a conference was held at Georgia State University in May 1984 This conference was supported by the National Endowment for the Humanities U S A through their

research conference program Over a three day period historians philosophers and researchers who were actively engaged in various of the life sciences discussed specific examples of interdisciplinary research and tried to analyze what was needed for successful crossing of disciplinary boundaries After the conference each of the participants revised their original presentations partly in light of the discussion at the conference The papers in this volume are the fruits of that endeavor

The Changing Governance of the Sciences Richard Whitley, Jochen Gläser, 2008-03-20 This book arose from a conversation between Lars Engwall and Richard Whitley during the 2003 European Group for Organization Studies Colloquium in Copenhagen about important topics for future research We agreed then and this has been amply confirmed by subsequent events that the proliferation of research evaluation schemes especially in Europe was an important feature of the changing relationships between the state universities and scientific research more generally which needed systematic and comparative analysis With the support of the Bank of Sweden Tercentenary Foundation this discussion led to workshops in Uppsala and Manchester involving colleagues from Australia Germany and the Netherlands at which the main framework for such an analysis was developed This framework then formed the basis for the conference at Bielefeld in 2005 at which earlier versions of most of the papers in this volume were presented and extensively discussed We are very grateful for the support of the PRIME network of the European Commission and the Max Planck Institute for the History of Science for this conference as well as the invaluable efforts of Peter Weingart of the University of Bielefeld We are also greatly indebted to the members of the Editorial Board who commented on various drafts of these papers as well as to Aant Elzinga Stefan Kuhlmann Philippe Laredo Arie Rip and Nic Vonortas who acted as referees

Culture, Science, Society Gyorgy Markus, 2011-04-07 The closely interrelated essays in this volume address the question of the internal dynamism of the high culture of modernity in its paradoxical constitution as the complementary unity of strict opposites the sciences philosophy included and the arts Special attention is paid to the internal strains of these two great fields in our contemporaneity It discusses on the one hand the role of experts and on the other that of the market in both of these areas It also deals with the hermeneutical relationship between author work recipient and its historical transformations Although essays deal with the complex philosophical issues these are discussed in a clear way approachable for a person with a broad philosophical interest They are however addressed primarily to philosophers social scientists culturologists and aestheticians

Instrumentation Between Science, State and Industry B. Joerges, T. Shinn, 2012-12-06 these In this book we appropriate their conception of research technology and extend it to many other phenomena which are less stable and less localized in time and space than the Zeeman Cotton situation In the following pages we use the concept for instances where research activities are orientated primarily toward technologies which facilitate both the production of scientific knowledge and the production of other goods In particular we use the term for instances where instruments and methods traverse numerous geographic and institutional boundaries that is fields distinctly different and distant from the instruments and methods initial focus We suggest that instruments such as

the ultra centrifuge and the trajectories of the men who devise such artefacts diverge in an interesting way from other forms of artefacts and careers in science metrology and engineering with which students of science and technology are more familiar The instrument systems developed by research technologists strike us as especially general open ended and flexible When tailored effectively research technology instruments potentially fit into many niches and serve a host of unrelated applications Their multi functional character distinguishes them from many other devices which are designed to address specific narrowly defined problems in a circumscribed arena in and outside of science Research technology activities link universities industry public and private research or metrology establishments instrument making firms consulting companies the military and metrological agencies Research technology practitioners do not follow the career path of the traditional academic or engineering professional

Selforganization W. Krohn, Gunter Küppers, H. Nowotny, 2013-03-09 may be complex without being able to be replaced by something still more simple This became evident with the help of computer models of deterministic recursive systems in which simple mathematical equation systems provide an extremely complex behavior 2 Irregularity of nature is not treated as an anomaly but becomes the focus of research and thus is declared to be normal One looks for regularity within irregularity Non equilibrium processes are recognized as the source of order and the search for equilibrium is replaced by the search for the dynamics of processes 3 The classical system environment model according to which the adaptation of a system to its environment is controlled externally and according to which the adaptation of the system occurs in the course of a learning process is replaced by a model of systemic closure This closure is operational in so far as the effects produced by the system are the causes for the maintenance of systemic organization If there is sufficient complexity the systems perform internal self observation and exert self control Cognition as understood by Maturana as self perception and self limitation e.g. that of a cell vis à vis its environment 22 But any information a system provides on its environment is a system internal construct The reference to the other is merely a special case of self reference The social sciences frequently have suffered from the careless way in which scientific ideas and models have been transferred

Science, Society, and Values Sal P. Restivo, 1994 He has tried in his career and specifically in this volume to understand science without accepting the culture of science uncritically

Transnational Intellectual Networks Christophe Charle, Jürgen Schriewer, Peter Wagner, 2004 The university system both in America and abroad has always claimed a universal significance for its research and educational models At the same time many universities particularly in Europe have also claimed another role as custodians of national culture Transnational Intellectual Networks explores this apparent contradiction and its resulting intellectual tensions with illuminating essays that span the nineteenth and early twentieth century nationalization movements in Europe through the postwar era

Reviewing **Scientific Establishments And Hierarchies**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is actually astonishing. Within the pages of "**Scientific Establishments And Hierarchies**," an enthralling opus penned by a very acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve in to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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