

W R I T I N G S C I E N C E

INSTITUTING SCIENCE

*The Cultural Production
of Scientific Disciplines*

Timothy Lenoir



Instituting Science The Cultural Production Of Scientific Disciplines

Kris Rutten, Stefaan Blancke, Ronald Soetaert



Instituting Science The Cultural Production Of Scientific Disciplines:

Instituting Science Timothy Lenoir, 1997 Early practitioners of the social studies of science turned their attention away from questions of institutionalization which had tended to emphasize macrolevel explanations and attended instead to microstudies of laboratory practice Though sympathetic to this approach as the microstudies included in this book attest the author is interested in re investigating certain aspects of institution formation notably the formation of scientific medical and engineering disciplines He emphasizes the manner in which science as cultural practice is imbricated with other forms of social political and even aesthetic practices This book offers case studies that reexamine certain critical junctures in the traditional historical picture of the evolution of the role of the scientist in modern Western society It focuses especially on the establishment of new disciplines within German research universities in the nineteenth century the problematic relationship that emerged between science industry and the state at the turn of the twentieth century and post World War II developments in science and technology After an Introduction and two chapters dealing with science and technology as cultural production and the struggles of disciplines to achieve legitimation and authority the author considers the following topics the organic physics of 1847 the innovative research program of Carl Ludwig as a model for institutionalizing science based medicine optics painting and ideology in Germany 1845 95 Paul Ehrlich s magic bullet the Haber Bosch synthesis of ammonia and the introduction of nuclear magnetic resonance instrumentation into the practice of organic chemistry

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Instituting Science Timothy Lenoir, 1997 Focusing on new disciplines in 19th century German universities this book

reexamines certain critical junctures in the traditional historical picture of the role of the scientist in modern Western society

The New Art of Old Public Science Communication Miira B. Hill, 2022-03-30 This book investigates the phenomenon of science communication events as spectacles for legitimising and communicating science to the public With attention to events such as Science Slam where scientists are asked to present their knowledge in new ways and speak to an audience of laymen the author examines the participants use of stylistic devices borrowed from other events in order to address a diverse audience in a competitive environment With attention to the performative appearance of scientists on stage and the manner in which contemporary public performing scientists present problematise and communicate knowledge the author considers the justifications offered by participants in terms of legitimacy and expectations Illustrating the crucial role of bodies techniques visuals and objects in the communicative construction of scientific reality The New Art of Old Public Science Communication The Science Slam sheds new light on the construction of improved science communication As such it will appeal to social scientists with interests in science communication the sociology of science and technology and the sociology of knowledge

Specialist Control James E. McClellan, 2003

Weimar Culture And Quantum Mechanics: Selected Papers By Paul Forman And Contemporary Perspectives On The Forman Thesis Alexei B Kojevnikov, Cathryn Carson, Helmuth Trischler, 2011-05-11 This volume reprints Paul Forman's classic papers on the history of the scientific profession in post World War I Germany and the invention of quantum mechanics The Forman thesis became famous for its demonstration of the cultural conditioning of scientific knowledge in particular by showing the historical connection between the culture of Weimar Germany known for its irrationality and antiscientism and the emerging concept of quantum acausality From the moment of its publication Forman's research provoked intense historical and philosophical debates In 2007 participants at an international conference in Vancouver Canada discussed the implications of the Forman thesis for contemporary historiography Their contributions collected in this volume represent cutting edge research on the history of the quantum revolution and of German science

Communicating Physics Josep Simon, 2016-09-12 The textbooks written by Adolphe Ganot 1804 1887 played a major role in shaping the way physics was taught in the nineteenth century Ganot's books were translated from their original French into more than ten languages including English allowing their adoption as standard works in Britain and spreading their influence as far as North America Australia India and Japan Simon's Franco British case study looks at the role of Ganot's two textbooks *Traite elementaire de physique experimentale et appliquee* 1851 and *Cours de physique purement experimentale* 1859 and their translations into English by Edmund Atkinson The study is novel for its international comparison of nineteenth century physics its acknowledgement of the role of book production on the impact of the titles and for its emphasis on the role of communication in the making of science

Science, Democracy, and Curriculum Studies John A. Weaver, 2018-08-30 In this book John A Weaver suggests curriculum studies scholars need to engage more in science matters It offers a review of science studies writing from Ludwick Fleck and Thomas Kuhn to Philip

Mirowski The volume includes chapters on the rhetoric of science with a focus on the history of rhetoric and economics then on the rhetoric of models statistics and data a critique of neoliberalism and its impact on science policy and the foundations of democracy Harry Collins and Robert Evans theory of expertise followed by chapters on feminism with a focus on the work of Sharon Traweek Karen Barad and Vinciane Despret postcolonial thought with attention paid to the work of Daniela Bleichmar Londa Schiebinger Judith Carney Sylvia Wynter Paul Gilroy and Sandra Harding and a final chapter on Nietzsche's philosophy of science Each section is introduced by an interlude drawing on autobiographical connections between curriculum studies and science studies

Encyclopedia of Literature and Science Pamela Gossin, 2002-08-30 Science and literature have always been strange bedfellows Like puzzle pieces they fit because they're different Some of the greatest works of world literature have been inspired by the marvels of the scientific world Scientists have written works of the imagination Even formal scientific writings have been known to employ rhetoric There is a tendency to think of literature and the humanities in general as having little to do with science Yet scholars have conducted fruitful studies of the history and philosophy of science With the rise of technology scholars have also applied scientific analysis to the study of literature and the creative process The intersection of scientific and humanistic inquiry is finally being mapped This volume includes more than 650 A-Z entries on topics and themes in science and literature significant writers key scientists seminal works and important theories and methodologies This reference defines the rapidly emerging interdisciplinary field of literature and science An introductory essay traces the history of the field its growing reputation and the current state of research Broad in scope the volume covers world literature from its beginnings to the present day and illuminates the role of science in literature and literary studies A wide range of experts contributed entries to this volume each of which concludes with a brief bibliography The entire volume closes with a list of works for further reading

William James at the Boundaries Francesca Bordogna, 2008-12 At Columbia University in 1906 William James gave a highly confrontational speech to the American Philosophical Association APA He ignored the technical philosophical questions the audience had gathered to discuss and instead addressed the topic of human energy Tramping on the rules of academic decorum James invoked the work of amateurs read testimonials on the benefits of yoga and alcohol and concluded by urging his listeners to take up this psychological and physiological problem What was the goal of this unusual speech Rather than an oddity Francesca Bordogna asserts that the APA address was emblematic it was just one of many gestures that James employed as he plowed through the barriers between academic popular and pseudoscience as well as the newly emergent borders between the study of philosophy psychology and the science of man Bordogna reveals that James's trespassing of boundaries was an essential element of a broader intellectual and social project By crisscrossing divides she argues James imagined a new social configuration of knowledge a better society and a new vision of the human self As the academy moves toward an increasingly interdisciplinary future William James at the Boundaries reintroduces readers to a seminal influence on the way knowledge is

pursued **Nursing Knowledge and Theory Innovation, Second Edition** Pamela G. Reed, Nelma B. Crawford Shearer, 2017-10-28 First Edition Earned a 5 Star rating from Doody's This esteemed text for graduate level nursing students focuses on the science and philosophy of nursing knowledge development with a special emphasis on theory as a tool in developing practice relevant knowledge It is distinguished by its focus on practical applications of theory for scholarly evidence based approaches The second edition features important updates and a reorganization of information to better highlight the roles of theory and the major philosophical perspectives in knowledge development It also introduces two completely new chapters The DNP Project Translating Research into Knowledge for Practice and Generating Knowledge in the Practice Setting Summary Points at the end of each chapter in addition to Discussion and Reflection questions help to reinforce knowledge The text offers a comprehensive overview of the philosophy and history of science the structures of nursing knowledge and a path for knowledge development It is unique in its reach beyond the traditional views about theory in nursing It advocates equipping practitioners as well as other nurses with the tools to make theory more relevant to their own practice and inspire confidence to be active participants in building knowledge for nursing The text will help students to become aware of their own philosophical and theoretical ideas and knowledge embedded in their practice and to learn strategies for developing theory based knowledge strategies that are practice relevant and practice based New to the Second Edition Presents important updates to the first edition New chapter The DNP Project Translating Research into Knowledge for Practice New chapter Generating New Knowledge in the Practice Setting Reorganizes material to better highlight the roles of theory and the major philosophical perspectives in knowledge development Includes summary points at the end of each chapter Key Features Balances theoretical and philosophical ideas with the practical Includes concrete strategies for knowledge development Explicates the shared and distinct roles of DNP and PhD nurses in knowledge development Introduces Intermodernism to support practice based theory and knowledge development Introduces Interludes whereby readers can examine specific strategies of knowledge development **Socio-Informatics** Volker Wulf, Volkmar Pipek, David Randall, Markus Rohde, Kjeld Schmidt, Gunnar Stevens, 2018-03-02 The book is an exploration of the theoretical conceptual and methodological foundations of human centred design Specifically it critically examines the notion of practice and argues for an understanding of the concept which emanates from engagement with design problems rather than simply from social scientific theory The contributors to the book in their various ways all subscribe to a systematic account of how practice oriented studies can inform design Using the perspective of grounded design it pursues a long term view of the design process arguing for user engagement from the very earliest stages of design policy including methods for understanding user practices to inform initial design policies up to and including processes of appropriation as technologies are embedded in contexts of use Grounded design is a perspective which also deals with the vexed problem of appropriate generalization in design studies and the kinds of cross comparison that can usefully be done The book contains a number of case studies which

exemplify these themes some of which are rooted in the use of technology in organizational contexts others of which deal with design in contexts such as care of the elderly firefighting and multicultural education

Innovation in Science and Organizational Renewal Thomas Heinze, Richard Münch, 2016-07-11 This book looks at the types of new research organizations that drive scientific innovation and how ground breaking science transforms research fields and their organization Based on historical case studies and comparative empirical data the book presents new and thought provoking evidence that improves our knowledge and understanding about how new research fields are formed and how research organizations adapt to breakthroughs in science While the book is firmly based in science history it discusses more general sociological and policy propositions regarding scientific innovations and organizational change The volume brings together leading scholars both from the United States and Europe

The Internet Revolution in the Sciences and Humanities Alan G. Gross, Joseph E. Harmon, 2016-05-10 The Internet Revolution in the Sciences and Humanities takes a new look at C P Snow's distinction between the two cultures a distinction that provides the driving force for a book that contends that the Internet revolution has sown the seeds for transformative changes in both the sciences and the humanities It is because of this common situation that the humanities can learn from the sciences as well as the sciences from the humanities in matters central to both generating evaluating and communicating knowledge on the Internet In a succession of chapters the authors deal with the state of the art in web based journal articles and books web sites peer review and post publication review In the final chapter they address the obstacles the academy and scientific organizations face in taking full advantage of the Internet outmoded tenure and promotion procedures the cost of open access and restrictive patent and copyright law They also argue that overcoming these obstacles does not require revolutionary institutional change In their view change must be incremental making use of the powers and prerogatives scientific and academic organizations already have

Science without Laws Angela N. H. Creager, Elizabeth Lunbeck, M. Norton Wise, 2007-09-03 A comparison of the use of model systems and exemplary cases across fields in the natural and social sciences

Victorian Interdisciplinarity and the Sciences Bernard Lightman, Efram Sera-Shriar, 2024-05-14 The specialization thesis the idea that nineteenth century science fragmented into separate forms of knowledge that led to the creation of modern disciplines has played an integral role in the way historians have described the changing disciplinary map of nineteenth century British science This volume critically reevaluates this dominant narrative in the historiography While new disciplines did emerge during the nineteenth century the intellectual landscape was far muddier and in many cases new forms of specialist knowledge continued to cross boundaries while integrating ideas from other areas of study Through a history of Victorian interdisciplinarity this volume offers a more complicated and innovative analysis of discipline formation Harnessing the techniques of cultural and intellectual history studies of visual culture Victorian studies and literary studies contributors break out of subject based silos exposing the tension between the rhetorical push for specialization and the actual practice of knowledge sharing across

disciplines during the nineteenth century **Knowledge Management** Ikujiro Nonaka, 2005 **Knowledge Production in European Universities** Kwiek Marek, 2012-11-23 The book studies transformations of European universities in the context of globalization and Europeanization the questioning of the foundations of the Golden Age of the Keynesian welfare state public sector reforms demographic changes the massification and diversification of higher education and the emergence of knowledge economies Such phenomena as academic entrepreneurialism and diversified channels of knowledge exchange in European universities are linked to transformations of the state and changes in public sector services The first contextual part of the book studies the changing state university relationships and the second empirically informed part draws from several recent large scale comparative European research projects *Science in the Public Sphere* Agusti Nieto-Galan, 2016-03-10 *Science in the Public Sphere* presents a broad yet detailed picture of the history of science popularization from the Renaissance to the twenty first century Global in focus it provides an original theoretical framework for analysing the political load of science as an instrument of cultural hegemony and giving a voice to expert and lay protagonists throughout history Organised into a series of thematic chapters spanning diverse periods and places this book covers subjects such as the representations of science in print the media classrooms and museums orthodox and heterodox practices the intersection of the history of science with the history of technology and the ways in which public opinion and scientific expertise have influenced and shaped one another across the centuries It concludes by introducing the participatory turn of the twenty first century a new paradigm of science popularization and a new way of understanding the construction of knowledge Highly illustrated throughout and covering the recent historiographical scholarship on the subject this book is valuable reading for students historians science communicators and all those interested in the history of science and its relationship with the public sphere **Perspectives on Science and Culture** Kris Rutten, Stefaan Blancke, Ronald Soetaert, 2018-02-15 Edited by Kris Rutten Stefaan Blancke and Ronald Soetaert *Perspectives on Science and Culture* explores the intersection between scientific understanding and cultural representation from an interdisciplinary perspective Contributors to the volume analyze representations of science and scientific discourse from the perspectives of rhetorical criticism comparative cultural studies narratology educational studies discourse analysis naturalized epistemology and the cognitive sciences The main objective of the volume is to explore how particular cognitive predispositions and cultural representations both shape and distort the public debate about scientific controversies the teaching and learning of science and the development of science itself The theoretical background of the articles in the volume integrates C P Snow's concept of the two cultures science and the humanities and Jerome Bruner's confrontation between narrative and logico scientific modes of thinking i.e. the cognitive and the evolutionary approaches to human cognition

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