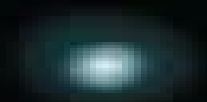


Science without Myth

*On Constructions, Reality,
and Social Knowledge*

Sergio Sismondo



Science Without Myth On Constructions Reality And Social Knowledge

Marion Blute



Science Without Myth On Constructions Reality And Social Knowledge:

Science without Myth Sergio Sismondo, 1996-01-01 This philosophical introduction to and discussion of social and political studies of science argues that scientific knowledge is socially constructed *An Introduction to Science and Technology Studies* Sergio Sismondo, 2011-08-17 An Introduction to Science and Technology Studies Second Edition reflects the latest advances in the field while continuing to provide students with a road map to the complex interdisciplinary terrain of science and technology studies Distinctive in its attention to both the underlying philosophical and sociological aspects of science and technology Explores core topics such as realism and social construction discourse and rhetoric objectivity and the public understanding of science Includes numerous empirical studies and illustrative examples to elucidate the topics discussed Now includes new material on political economies of scientific and technological knowledge and democratizing technical decisions Other features of the new edition include improved readability updated references chapter reorganization and more material on medicine and technology *Beyond Innovation: Technology, Institution and Change as Categories for Social Analysis* Thomas Kaiserfeld, 2015-07-07 Beyond Innovation counter weighs the present innovation monomania by broadening our thinking about technological and institutional change It is done by a multidisciplinary review of the most common ideas about the dynamics between technology and institutions **Visions of STS** Stephen H. Cutcliffe, Carl Mitcham, 2001-02-01 Maps interconnections between science technology and society in order to understand both benefits and costs **Science without Myth** Sergio Sismondo, 1995-11-30 By looking at science as a social and political activity researchers have created novel accounts of scientific practice and rationality accounts that largely contradict the dominant ideologies of science Science without Myth is a philosophical introduction to and discussion of these social and political studies of science a discussion of the social construction of scientific knowledge as a product of communities and societies marked by the circumstances of its production The book argues that there are a number of important and interesting ways in which scientific knowledge can be a social construction but that it often is knowledge of the material world therefore this book is an essay on mediation or the mediatory roles of scientists between nature and knowledge By identifying and separating different senses of the construction metaphor this book displays senses in which scientists construct knowledge phenomena and even worlds It shows science as made up of thoroughly social processes and that those processes create representations of a pre existing material world Science without Myth s argument provides a counter balance to skeptical tendencies of constructivist studies of science and technology by showing that skepticism cannot cut so deeply as to deny the possibility of knowledge and representation *Foucault* Robert Nola, 2014-03-05 Five eminent critics explore the validity of Foucault s ideas on such questions as the fit between power and knowledge and the tension between historicist and universalist claims The very possibility of a critical stance is a recurring theme in all of Foucault s works and the contributors vary in the ways that they relate to his key views on truth and reason in relation to power and government **Moral,**

Believing Animals Christian Smith, 2009 In *Moral Believing Animals* Christian Smith advances a creative theory of human persons and culture that offers innovative challenging answers to these and other fundamental questions in sociological cultural and religious theory

Shapes of Time in British Twenty-First Century Quantum Fiction Sonia Front, 2015-09-04 This book addresses the notion of time and temporality and its various conceptualizations in the theories of the new physics utilized as a thematic and formal framework in the British novel of the twenty first century As the Newtonian conception of reality does not provide a reliable framework within which to situate human experience and generate meaning fiction writers have recognized quantum mechanics as a potent source from which to draw in search of new metaphors The quantum has become a part of the understanding of reality and its concepts and assumptions have been absorbed into the textual structure and content of literary fiction *Shapes of Time in British Twenty First Century Quantum Fiction* examines human temporality as mediated by the timeshapes imagined within the context of the new physics and explores the philosophical implications for human temporality and identity of situating an individual within the realm of physical time Its chapters deal with various concepts of the new physics connected with temporality and their appropriation in a selected novel parallel universes in Andrew Crumey's *Sputnik Caledonia* 2008 eternal recurrence and Poincaré's theorem in David Mitchell's *Cloud Atlas* 2004 chaos theory in Samantha Harvey's *The Wilderness* 2009 and the end of time in Scarlett Thomas's *The End of Mr Y* 2006 Each of them corresponds to a different conceptual shape of time tree concertina spiral and snapshot respectively which is enacted on the formal level Analyzing the new time constructs in a narrative this book thus uncovers passages between scientific and humanistic standpoints and reveals quantum fiction to be an effective tool for visualizing the subjective non homogenous experience of private time

Darwinian Sociocultural Evolution Marion Blute, 2010-01-14 Social scientists can learn a lot from evolutionary biology from systematics and principles of evolutionary ecology to theories of social interaction including competition conflict and cooperation as well as niche construction complexity eco evo devo and the role of the individual in evolutionary processes Darwinian sociocultural evolutionary theory applies the logic of Darwinism to social learning based cultural and social change With a multidisciplinary approach for graduate biologists philosophers sociologists anthropologists social psychologists archaeologists linguists economists political scientists and science and technology specialists the author presents this model of evolution drawing on a number of sophisticated aspects of biological evolutionary theory The approach brings together a broad and inclusive theoretical framework for understanding the social sciences which addresses many of the dilemmas at their forefront the relationship between history and necessity conflict and cooperation the ideal and the material and the problems of agency subjectivity and the nature of social structure

21st Century Sociology: A Reference Handbook Clifton D. Bryant, Dennis L. Peck, 2006-11-17 With this valuable handbook the editors have successfully synthesized a field that has expanded considerably in recent years M L Stark CHOICE Because the field of sociological inquiry is multi faceted in perspective and does subsume a variety of

specialty interests the literature in this discipline has developed and proliferated in a near exponential fashion Sociology today has become so specialty driven in its research and theory agenda that the result is an enormous and complex body of sociological knowledge that is often considered to be unwieldy 21st Century Sociology A Reference Handbook provides a concise forum through which the vast array of knowledge accumulated particularly during the past three decades can be organized into a single definitive resource The two volumes of this Reference Handbook focus on the corpus of knowledge garnered in traditional areas of sociological inquiry as well as document the general orientation of the newer and currently emerging areas of sociological inquiry Key Features Provides a timely and comprehensive assessment of the 100 specialty fields of sociology with contributions by leading authorities in their area of expertise from the U S Canada Europe and Singapore Examines four distinct phases of development in the history of sociological inquiry a period of theoretical development the emphasis on methodological development and refinement the phase of specialization and a period that has taken representatives of the discipline into previously unexplored areas Addresses the various traditional subfields of sociology such as political sociology educational sociology rural sociology criminology occupational sociology and minority relations Explores important new evolving subfields such as environmental sociology sociology of sports and leisure military sociology medical sociology the sociology of food and eating and the sociology of emotions 21st Century Sociology presents the most comprehensive overview of modern sociology making it a must have resource for any academic library

The Third Lens Andrew S. Reynolds, 2018-06-21 Does science aim at providing an account of the world that is literally true or objectively true Understanding the difference requires paying close attention to metaphor and its role in science In The Third Lens Andrew S Reynolds argues that metaphors like microscopes and other instruments are a vital tool in the construction of scientific knowledge and explanations of how the world works More than just rhetorical devices for conveying difficult ideas metaphors provide the conceptual means with which scientists interpret and intervene in the world Reynolds here investigates the role of metaphors in the creation of scientific concepts theories and explanations using cell theory as his primary case study He explores the history of key metaphors that have informed the field and the experimental philosophical and social circumstances under which they have emerged risen in popularity and in some cases faded from view How we think of cells as chambers organisms or even machines makes a difference to scientific practice Consequently an accurate picture of how scientific knowledge is made requires us to understand how the metaphors scientists use and the social values that often surreptitiously accompany them influence our understanding of the world and ultimately of ourselves The influence of metaphor isn't limited to how we think about cells or proteins in some cases they can even lead to real material change in the very nature of the thing in question as scientists use technology to alter the reality to fit the metaphor Drawing out the implications of science's reliance upon metaphor The Third Lens will be of interest to anyone working in the areas of history and philosophy of science science studies cell and molecular biology science education and communication and metaphor in

general *Critiquing Free Speech* Matthew D. Bunker, 2001-04-01 In this exceptional volume Matthew D Bunker explores the work of contemporary free speech critics and argues that while at times these critics provide important lessons many of their conclusions must be rejected Moreover Bunker suggests that we be wary of interdisciplinary approaches to free speech theory that by their very assumptions and techniques are a poor fit with existing free speech theory and doctrine In his investigation of diverse critiques of free speech theory and his sophisticated rebuttal he provides an innovative and important examination of First Amendment theory In doing so he establishes a new agenda for First Amendment theory scholarship that incorporates some of the critics insights without abandoning the best aspects of the free speech tradition COPY FOR MAILER Distinctive features in this volume include an overview of the traditional approaches to First Amendment theory an examination of work from key First Amendment scholars and theorists at both the individual and group level an emphasis on interdisciplinarity ranging from feminist and critical legal scholars to economists and literary theorists and a new agenda for First Amendment theory scholarship which incorporates critical comment while preserving the best aspects of the free speech tradition *Impure Cultures* Daniel Lee Kleinman, 2003-10-15 How are the worlds of university biology and commerce blurring Many university leaders see the amalgamation of academic and commercial cultures as crucial to the future vitality of higher education in the United States In *Impure Cultures* Daniel Lee Kleinman questions the effect of this blending on the character of academic science Using data he gathered as an ethnographic observer in a plant pathology lab at the University of Wisconsin Madison Kleinman examines the infinite and inescapable influence of the commercial world on biology in academia today Contrary to much of the existing literature and common policy practices he argues that the direct and explicit relations between university scientists and industrial concerns are not the gravest threat to academic research Rather Kleinman points to the less direct but more deeply rooted effects of commercial factors on the practice of university biology He shows that to truly understand research done at universities today it is first necessary to explore the systematic pervasive and indirect effects of the commercial world on contemporary academic practice *Critical Political Ecology* Tim Forsyth, 2003 Describes new ways of looking at environmental science and politics and discusses the problems of formulating and implementing environmental policy particularly in the global arena and in developing countries *Research Design and Proposal Writing in Spatial Science* Jay D. Gatrell, Gregory D. Bierly, Ryan R. Jensen, Rajiv R. Thakur, 2020-11-16 The investigation of the interactions between human and physical systems poses unique conceptual methodological and practical challenges This book establishes a spatial science framework for policymakers social scientists and environmental researchers as they explore and analyze complex problems The authors provide guidance for scientists writers and students across a broad range of fields on how to tackle discipline specific issues of space place and scale as they propose and conduct research in the spatial sciences This practical textbook and overview blends plenty of concrete examples of spatial research and case studies to familiarize readers with the research process demystifying and illustrating how it is actually done The

appendix contains both completed and in progress proposals for MA and PhD theses and dissertations as well as successful research grants By emphasizing research as a learning and experiential process while providing students with the encouragement and skills needed for success in proposal writing Research Design and Proposal Writing in Spatial Science can serve as a textbook for research design or project based courses at the upper division undergraduate and graduate level

Why Movements Matter Steve Breyman, 2001-07-12 Details the West German peace movement's impact on German U S and NATO politics and security dynamics in the 1980s

Kuhn's Evolutionary Social Epistemology K. Brad Wray, 2011-09-29 Kuhn's Structure of Scientific Revolutions 1962 has been enduringly influential in philosophy of science challenging many common presuppositions about the nature of science and the growth of scientific knowledge However philosophers have misunderstood Kuhn's view treating him as a relativist or social constructionist In this book Brad Wray argues that Kuhn provides a useful framework for developing an epistemology of science that takes account of the constructive role that social factors play in scientific inquiry He examines the core concepts of Structure and explains the main characteristics of both Kuhn's evolutionary epistemology and his social epistemology relating Structure to Kuhn's developed view presented in his later writings The discussion includes analyses of the Copernican revolution in astronomy and the plate tectonics revolution in geology The book will be useful for scholars working in science studies sociologists and historians of science as well as philosophers of science

Imagination José Van Dijck, 1998-01-31 Genetics seems more popular than ever DNA technology not only sustains large areas of biomedicine and business but also prevails in social and legal practices and takes root in cultural products Since the late 1950s the public image of genetics metamorphosed from a suspect branch of research into a thriving well funded field of biomedicine Images and imaginations have played a crucial role in the popularization of genetic knowledge The media played up images of engineered bugs scientists promoted images of selfish genes and science fiction writers infested the imagination with stories of cloned monsters Image nation examines the role of science journalism and fiction in the popularization of genetics

Preparing Dinosaurs Caitlin Donahue Wylie, 2021-08-31 An investigation of the work and workers in fossil preparation labs reveals the often unacknowledged creativity and problem solving on which scientists rely Those awe inspiring dinosaur skeletons on display in museums do not spring fully assembled from the earth Technicians known as preparators have painstakingly removed the fossils from rock repaired broken bones and reconstructed missing pieces to create them These specimens are foundational evidence for paleontologists and yet the work and workers in fossil preparation labs go largely unacknowledged in publications and specimen records In this book Caitlin Wylie investigates the skilled labor of fossil preparators and argues for a new model of science that includes all research work and workers Drawing on ethnographic observations and interviews Wylie shows that the everyday work of fossil preparation requires creativity problem solving and craft She finds that preparators privilege their own skills over technology and that scientists prefer to rely on these trusted technicians rather than new technologies

Wylie examines how fossil preparators decide what fossils and therefore dinosaurs look like how labor relations between interdependent yet hierarchically unequal collaborators influence scientific practice how some museums display preparators at work behind glass as if they were another exhibit and how these workers learn their skills without formal training or scientific credentials The work of preparing specimens is a crucial component of scientific research although it leaves few written traces Wylie argues that the paleontology research community's social structure demonstrates how other sciences might incorporate non scientists into research work empowering and educating both scientists and nonscientists Farm Communities at the Crossroads University of Regina. Canadian Plains Research Center, 2003 This book is an outgrowth of a conference that analyzed transformations in farming farm communities and discussed what might be done to achieve a more socially responsible development It contains papers that address the pace of change in work rural society which has proceeded so rapidly that every new development appears to be a cross roads in which something precious is in danger of being left behind but something valuable may be gained by taking the right route Topics of the papers include the importance of work the family farm community building knowledge skills in the farm community coping with the farm crisis land reform short line railways farm co operatives agricultural chemicals agribusiness sustainable alternatives for agriculture game farming co operative intervention in the farm machinery sector conservation tillage globalization agricultural policy agrarian radicalism on the prairies and farm income support systems Includes index

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