



# The social basis of scientific discoveries

Augustine  
Brannigan

# Social Basis Of Scientific Discoveries

**Ofer Gal, Raz Chen-Morris**



## **Social Basis Of Scientific Discoveries:**

*The Social Basis of Scientific Discoveries* Augustine Brannigan, 1981-10-29 What constitutes a scientific discovery How do discoveries happen and how are they recognised as such These are questions of central concern to scientists and philosophers In this book Augustine Brannigan provides a critical examination of the major theories which have been devised to account for discoveries and innovations in science and develops a fresh alternative Dr Brannigan begins by arguing that most theories fall into one of two classes mentalistic theories which describe how ideas come into the mind and cultural theories which describe how they mature in a particular culture His account reveals a series of empirical and methodological problems that make these existing models untenable and he proposes as an alternative a sociological approach which draws attention not to what makes discoveries happen but to the processes whereby certain achievements are recognised and labelled as discoveries This approach is illustrated in detail with a number of important scientific cases The book throws light not only on the conventional character of discoveries but also on the folk elements in popular theories about discovery such as genius gestalt switch and simultaneous invention     Symbolic Interaction and Ethnographic Research Robert Prus, Robert C. Prus, 1996-01-01 Examines a series of theoretical and methodological issues faced by social scientists in interpretive and ethnographic studies of human group life     The Uses of Experiment David Gooding, Trevor Pinch, Simon Schaffer, 1989-05-18 Renowned scholars in history sociology philosophy and anthropology consider seventeenth and twentieth century weapon testing particle physics biology and other topics in an account of important and often famous experiments     *Knowledge Actors* Johan Östling, David Larsson Heidenblad, Anna Nilsson Hammar, 2023-10-31 Historical actors are as central to the history of knowledge as to all historical scholarship Every country every era has its biographies of eminent scientists intellectuals and educational reformers Yet the theoretical currents that have left their mark on the historical and sociological studies of knowledge since the 1960s have emphasized structures over actors collectives over individuals By contrast Knowledge Actors stresses the importance of historical actors and re engages with their actions from fresh perspectives The objective of this volume is thus to foster a larger discussion among historians of knowledge about the role of knowledge actors Do we want individuals and networks to take centre stage in our research narratives And if so which ones do we want to highlight and how are we to conduct our research What are the potential pitfalls of pursuing that actor centric trajectory This the third volume in a trilogy about the history of knowledge from the Lund Centre for the History of Knowledge LUCK     **Philosophy, Science, and History** Lydia Patton, 2014-06-27 Philosophy Science and History A Guide and Reader is a compact overview of the history and philosophy of science that aims to introduce students to the groundwork of the field and to stimulate innovative research The general introduction focuses on scientific theory change assessment discovery and pursuit Part I of the Reader begins with classic texts in the history of logical empiricism including Reichenbach's discovery justification distinction With careful reference to Kuhn's analysis of scientific revolutions the section provides key

texts analyzing the relationship of HOPOS to the history of science including texts by Santayana Rudwick and Shapin and Schaffer Part II provides texts illuminating central debates in the history of science and its philosophy These include the history of natural philosophy Descartes Newton Leibniz Kant Hume and du Ch telet in a new translation induction and the logic of discovery including the Mill Whewell debate Duhem and Hanson and catastrophism versus uniformitarianism in natural history Playfair on Hutton and Lyell de Buffon Cuvier and Darwin The editor s introductions to each section provide a broader perspective informed by contemporary research in each area including related topics Each introduction furnishes proposals including thematic bibliographies for innovative research questions and projects in the classroom and in the field

**Handbook of Creativity** John A. Glover, Royce R. Ronning, Cecil R. Reynolds, 2013-03-09 The motivation underlying our development of a handbook of creativity was different from what usually is described by editors of other such volumes Our sense that a handbook was needed sprang not from a deluge of highly erudite studies calling out for organization nor did it stem from a belief that the field had become so fully articulated that such a book was necessary to provide summation and reference Instead this handbook was conceptualized as an attempt to provide structure and organization for a field of study that from our perspective had come to be a large scale example of a degenerating research program see Brown Chapter 1 The handbook grew out of a series of discussions that spanned several years At the heart of most of our interactions was a profound unhappiness with the state of research on creativity Our consensus was that the number of good works published on creativity each year was small and growing smaller Further we could not point to a journal text or professional organization that was providing leadership for the field in shaping a scientifically sound framework for the development of research programs in creativity At the same time we were casting about for a means of honoring a dear friend E Paul Torrance Our decision was that we might best be able to honor Paul and influence research on creativity by developing a handbook designed to challenge traditional perspectives while offering research agendas based on contemporary psychological views

Experiment and the Making of Meaning D.C. Gooding, 2012-12-06 the topic of meaning is the one topic discussed in philosophy in which there is literally nothing but theory literally nothing that can be labelled or even ridiculed as the common sense view Putnam The Meaning of Meaning This book explores some truths behind the truism that experimentation is a hallmark of scientific activity Scientists descriptions of nature result from two sorts of encounter they interact with each other and with nature Philosophy of science has by and large failed to give an account of either sort of interaction Philosophers typically imagine that scientists observe theorize and experiment in order to produce general knowledge of natural laws knowledge which can be applied to generate new theories and technologies This view bifurcates the scientist s world into an empirical world of pre articulate experience and know how and another world of talk thought and argument Most received philosophies of science focus so exclusively on the literary world of representations that they cannot begin to address the philosophical problems arising from the interaction of these worlds empirical access as a source

of knowledge meaning and reference and of course realism This has placed the epistemological burden entirely on the predictive role of experiment because it is argued testing predictions is all that could show that scientists theorizing is constrained by nature Here a purely literary approach contributes to its own demise The epistemological significance of experiment turns out to be a theoretical matter cruciality depends on argument not experiment      **Routledge Revivals: Art and Artifact in Laboratory Science (1985)** Michael Lynch,2017-09-20 First published in 1985 this book provides a descriptive study of social activities in a neurosciences laboratory Based on fieldwork conducted by the author in the laboratory during 1975 and 1976 and taking an ethnomethodological approach it focuses on the phenomenon of the social accomplishment of natural scientific order Through the examination of shop work and shop talk in this environment it identifies an analyzable social basis in the local production of accounts of natural objects in laboratory research This work will be of interest to students and scholars of ethnomethodology and sociology      **The Historiography of the Chemical Revolution** John G McEvoy,2015-10-06 This study offers a critical survey of past and present interpretations of the Chemical Revolution designed to lend clarity and direction to the current ferment of views      Who Owns Knowledge? Bernd Weiler,2017-09-08 Who Owns Knowledge explores the emerging linkages between the extension of knowledge and the law It anticipates that the legal system will not only be called upon to adjudicate in matters of creative minds but will be expected to do so to an ever increasing degree Linkages between the legal system and knowledge are bound to multiply in modern societies Ironically while increasingly relying on knowledge we are simultaneously investing significant resources into controlling this same knowledge This includes developing a system of legal governance over how knowledge is extended or enlarged Such modes of governance may take the form of regulatory legal codes or legal challenges and judgments that shape the evolution of modern society and potentially transform knowledge itself as a productive force Who Owns Knowledge asks such questions as What is the appropriate balance of public and private interests involved in this process How can creative powers natural resources and indigenous knowledge be protected from either public or private exploitation Does the law have the power to prevent this exploitation or is adaptive technology needed Also in this identity theft conscious age how can the rights of the individual be protected against policies allowing access to any kind of information especially confidential information The editors and contributors demonstrate that the relationship between knowledge and the law needs to be further researched and discussed Who Owns Knowledge is a must read for those interested in the subjects of intellectual property the history and development of modern legal and economic systems and their entanglements and how judicial systems make choices between the legal and economic systems and especially between the public and private good and their often opposing interests      *New Trends in the History of Science* ,2024-12-09      The One Culture? Jay A. Labinger,Harry Collins,2010-08-15 So far the Science Wars have generated far more heat than light Combatants from one or the other of what C P Snow famously called the two cultures science versus the arts and humanities have launched bitter attacks but have

seldom engaged in constructive dialogue about the central issues In *The One Culture* Jay A Labinger and Harry Collins have gathered together some of the world's foremost scientists and sociologists of science to exchange opinions and ideas rather than insults The contributors find surprising areas of broad agreement in a genuine conversation about science its legitimacy and authority as a means of understanding the world and whether science studies undermines the practice and findings of science and scientists *The One Culture* is organized into three parts The first consists of position papers written by scientists and sociologists of science which were distributed to all the participants The second presents commentaries on these papers drawing out and discussing their central themes and arguments In the third section participants respond to these critiques offering defenses clarifications and modifications of their positions Who can legitimately speak about science What is the proper role of scientific knowledge How should scientists interact with the rest of society in decision making Because science occupies such a central position in the world today such questions are vitally important Although there are no simple solutions *The One Culture* does show the reader exactly what is at stake in the Science Wars and provides a valuable framework for how to go about seeking the answers we so urgently need Contributors include Constance K Barsky Jean Bricmont Harry Collins Peter Dear Jane Gregory Jay A Labinger Michael Lynch N David Mermin Steve Miller Trevor Pinch Peter R Saulson Steven Shapin Alan Sokal Steven Weinberg Kenneth G Wilson

*Descartes-Agonistes* John Schuster, 2012-10-23 This book reconstructs key aspects of the early career of Descartes from 1618 to 1633 that is up through the point of his composing his first system of natural philosophy *Le Monde* in 1629-33 It focuses upon the overlapping and intertwined development of Descartes projects in physico mathematics analytical mathematics universal method and finally systematic corpuscular mechanical natural philosophy The concern is not simply with the conceptual and technical aspects of these projects but with Descartes agendas within them and his construction and presentation of his intellectual identity in relation to them Descartes technical projects agendas and senses of identity shifted over time entangled and displayed great successes and deep failures as he morphed from a mathematically competent Jesuit trained graduate in neo Scholastic Aristotelianism to aspiring prophet of a systematised corpuscular mechanism passing through stages of being a committed physico mathematicus advocate of a putative universal mathematics and projector of a grand methodological dream In all three dimensions projects agendas and identity concerns the young Descartes struggled and contended with himself and with real or virtual peers and competitors hence the title *Descartes Agonistes*

**Society and Knowledge** Volker Meja, 2017-07-05 The sociology of knowledge is generally seen as part of the sociology of cultural products Along with the sociology of science it explores the social character of science and in particular the social production of scientific knowledge Knowledge in all its varieties is of crucial importance in social political and economic relations in modern society Yet new realities the editors argue in their introduction to this second edition require a new perspective In the past half century the social role of knowledge has changed profoundly The natural attitude toward scientific knowledge in

science that assigned a special status to science's knowledge claims has lost its dominance and the view that all knowledge is socially constructed has gained general acceptance. Science increasingly influences the political agenda in modern societies. Consequently, a new political field has emerged: knowledge politics. These fourteen essays by social scientists, philosophers, and historians cover fundamental issues: theoretical perspectives, knowledge and power, and empirical studies. Eight of the fourteen contributions were part of the first edition of *Society and Knowledge* published in 1984, and most of these have been updated and revised for this new edition. Included in this edition are six new contributions by Robert K. Merton, Steve Fuller, Dick Pels, Nico Stehr, Barry Schwartz, and Michael Lynch. This second revised edition builds on its predecessor in presenting cutting-edge theoretical and empirical efforts to transform the sociology of knowledge. Professionals, policymakers, and graduate students in the fields of sociology, political science, and social science will find this volume of interest and importance.

*Routledge History of Philosophy Volume VIII* Richard Kearney, 2003-12-23 Continental philosophy, as it has emerged in the twentieth century, is less a seamless fabric than a patchwork of diverse strands. Phenomenology, hermeneutics, existentialism, structuralism, critical theory, deconstruction—these are some of the salient movements which have developed in continental Europe between 1900 and the 1990s, though their influence is by no means confined to geographic location. Continental thought has proved highly exportable, circulating far beyond the frontiers of Europe to provoke strong responses in the intellectual world at large. The fifteen articles in this volume outline and assess some of the issues and experiments of continental philosophy. The first five span the twin movements of phenomenology and existentialism, running from Husserl and Heidegger to Sartre, Merleau-Ponty, and Levinas. Subsequent essays deal with specific currents of continental thought in such areas as science, Marxism, linguistics, politics, aesthetics, feminism, and hermeneutics. A final chapter on postmodernism highlights the manner in which so many concerns of continental thought culminate in a radical anti-foundationalism. This volume provides a broad scholarly introduction to this period for students of philosophy and related disciplines, as well as some original interpretations of these authors. It includes a glossary of technical terms and a chronological tube of philosophical, scientific, and other cultural events.

**Handbook of Research on Science Education** Sandra K. Abell, Norman G. Lederman, 2013-03-07 This state-of-the-art research Handbook provides a comprehensive, coherent, current synthesis of the empirical and theoretical research concerning teaching and learning in science and lays down a foundation upon which future research can be built. The contributors, all leading experts in their research areas, represent the international and gender diversity that exists in the science education research community. As a whole, the Handbook of Research on Science Education demonstrates that science education is alive and well and illustrates its vitality. It is an essential resource for the entire science education community, including veteran and emerging researchers, university faculty, graduate students, practitioners in the schools, and science education professionals outside of universities. The National Association for Research in Science Teaching (NARST) endorses the Handbook of Research on Science Education as an

important and valuable synthesis of the current knowledge in the field of science education by leading individuals in the field For more information on NARST please visit <http://www.narst.org>

**Science in the Age of Baroque** Ofer Gal, Raz Chen-Morris, 2012-11-28 This volume examines the New Science of the 17th century in the context of Baroque culture analysing its emergence as an integral part of the high culture of the period The collected essays explore themes common to the new practices of knowledge production and the rapidly changing culture surrounding them as well as the obsessions anxieties and aspirations they share such as the foundations of order the power and peril of mediation and the conflation of the natural and the artificial The essays also take on the historiographical issues involved the characterization of culture in general and culture of knowledge in particular the use of generalizations like Baroque and the status of such categories and the role of these in untangling the historical complexities of the tumultuous 17th century The canonical protagonists of the Scientific Revolution are considered and so are some obscure and suppressed figures Galileo side by side with Scheiner Torricelli together with Kircher Newton as well as Scilla The coupling of Baroque and Science defies both the still triumphalist historiographies of the Scientific Revolution and the slight embarrassment that the Baroque represents for most cultural national histories of Western Europe It signals a methodological interest in tensions and dilemmas rather than self affirming narratives of success and failure and provides an opportunity for reflective critique of our historical categories which is valuable in its own right

**Science as Practice and Culture** Andrew Pickering, 1992-05 Science as Practice and Culture explores one of the newest and most controversial developments within the rapidly changing field of science studies the move toward studying scientific practice the work of doing science and the associated move toward studying scientific culture understood as the field of resources that practice operates in and on Andrew Pickering has invited leading historians philosophers sociologists and anthropologists of science to prepare original essays for this volume The essays range over the physical and biological sciences and mathematics and are divided into two parts In part I the contributors map out a coherent set of perspectives on scientific practice and culture and relate their analyses to central topics in the philosophy of science such as realism relativism and incommensurability The essays in part II seek to delineate the study of science as practice in arguments across its borders with the sociology of scientific knowledge social epistemology and reflexive ethnography

**Ethnographies Revisited** Antony J. Puddephatt, William Shaffir, Steven W. Kleinknecht, 2009-12-16 This book presents reflexive first hand accounts from the authors of major book length ethnographies recounting how they generated their key ideas in the practice of field research This volume provides a fresh approach to teaching qualitative research by encouraging students to think creatively and theoretically in the field

*Thomas Kuhn* Thomas Nickles, 2003 Publisher Description



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