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New Studies in the History and
Philosophy of Science and Technology

Revisiting Discovery and Justification

Historical and philosophical perspectives
on the context distinction

Edited by Jutta Schickore
and Friedrich Steinle

Revisiting Discovery And Justification 14 Archimedes

**Max-Planck-Institut für
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Revisiting Discovery And Justification 14 Archimedes:

Revisiting Discovery and Justification Jutta Schickore, Friedrich Steinle, 2006-04-18 The distinction between the contexts of discovery and justification has had a turbulent career in philosophy of science At times celebrated as the hallmark of philosophical approaches to science at times condemned as ambiguous distorting and misleading the distinction dominated philosophical debates from the early decades of the twentieth century to the 1980s Until today it informs our conception of the content domain and goals of philosophy of science It is due to this fact that new trends in philosophy of experimentation and history and sociology of science have been marginalized by traditional scholarship in philosophy To acknowledge properly this important recent work we need to re open the debate about the nature development and significance of the context distinction about its merits and flaws The contributions to this volume provide close readings and detailed analyses of the original textual sources for the context distinction They revise those accounts of forerunners of the distinction that have been written through the lens of Logical Empiricism They map clarify and analyse the derivations and mutations of the context distinctions as we encounter them in current history and philosophy of science The re evaluation of the distinction helps us deal with the philosophical challenges that the New Experimentalism and historically socio politically and economically oriented science studies have placed before us This volume thus clears the ground for the productive and fruitful integration of these new developments into philosophy of science *Scientific Concepts and Investigative Practice*

Uljana Feest, Friedrich Steinle, 2012-10-30 Recent philosophy and history of science has seen a surge of interest in the role of concepts in scientific research Scholars working in this new field focus on scientific concepts rather than theories as units of analysis and on the ways in which concepts are formed and used rather than on what they represent They analyze what has traditionally been called the context of discovery rather than or in addition to the context of justification And they examine the dynamics of research rather than the status of the finished research results This volume provides detailed case studies and general analyses to address questions raised by these points such as Can concepts be clearly distinguished from the sets of beliefs we have about their referents What if any sense can be made of the separation between concepts and theories Can we distinguish between empirical and theoretical concepts Are there interesting similarities and differences between the role of concepts in the empirical sciences and in mathematics What underlying notion of investigative practice could be drawn on to explicate the role of concept in such practice From a philosophical point of view is the distinction between discovery and justification a helpful frame of reference for inquiring into the dynamics of research From a historiographical point of view does a focus on concepts face the danger of falling back into an old fashioned history of ideas **Integrating History and**

Philosophy of Science Seymour Mauskopf, Tad Schmaltz, 2011-09-06 Though the publication of Kuhn's *Structure of Scientific Revolutions* seemed to herald the advent of a unified study of the history and philosophy of science it is a hard fact that history of science and philosophy of science have increasingly grown apart Recently however there has been a series of

workshops on both sides of the Atlantic called HPS intended to bring historians and philosophers of science together to discuss new integrative approaches. This is therefore an especially appropriate time to explore the problems with and prospects for integrating history and philosophy of science. The original essays in this volume all from specialists in the history of science or philosophy of science offer such an exploration from a wide variety of perspectives. The volume combines general reflections on the current state of history and philosophy of science with studies of the relation between the two disciplines in specific historical and scientific cases.

New Narratives in Eighteenth-Century Chemistry Lawrence M. Principe, 2007-09-14. The eighteenth century has long been considered critical for the development of modern chemistry yet many crucial features of the period remain largely unknown or unexplored for general accounts often built around Lavoisier have remained quite selective. This volume presents new approaches and topics in an attempt to build a richer fuller more complex view of chemical work during the period. Themes include late phase alchemy professionalization chemical education and the links and relations between chemistry and pharmacy medicine agriculture and geology.

Making 20th Century Science Stephen G. Brush, Ariel Segal, 2015. Historically the scientific method has been said to require proposing a theory making a prediction of something not already known testing the prediction and giving up the theory or substantially changing it if it fails the test. A theory that leads to several successful predictions is more likely to be accepted than one that only explains what is already known but not understood. This process is widely treated as the conventional method of achieving scientific progress and was used throughout the twentieth century as the standard route to discovery and experimentation. But does science really work this way? In *Making 20th Century Science* Stephen G. Brush discusses this question as it relates to the development of science throughout the last century. Answering this question requires both a philosophically and historically scientific approach and Brush blends the two in order to take a close look at how scientific methodology has developed. Several cases from the history of modern physical and biological science are examined including Mendeleev's Periodic Law Kekulé's structure for benzene the light quantum hypothesis quantum mechanics chromosome theory and natural selection. In general it is found that theories are accepted for a combination of successful predictions and better explanations of old facts. *Making 20th Century Science* is a large scale historical look at the implementation of the scientific method and how scientific theories come to be accepted.

A History of Physical Theories of Comets, From Aristotle to Whipple Tofigh Heidarzadeh, 2008-05-23. Although the development of ideas about the motion and trajectory of comets has been investigated piecemeal we lack a comprehensive and detailed survey of physical theories of comets. The available works either illustrate relatively short periods in the history of physical cometology or portray a landscape view without adequate details. The present study is an attempt to review with more details the major physical theories of comets in the past two millennia from Aristotle to Whipple. My research however did not begin with antiquity. The basic question from which this project originated was a simple inquiry about the cosmic identity of comets at the dawn of the astronomical revolution how

did natural philosophers and astronomers define the nature and place of a new category of celestial objects comets after Brahe's estimation of cometary distances. It was from this turning point in the history of cometary theories that I expanded my studies in both the pre-modern and modern eras. A study starting merely from Brahe and ending with Newton without covering classical and medieval thought about comets would be incomplete and leave the fascinating achievements of post-Newtonian cometology unexplored.

Experimentelles Denken Kathleen Philipp, 2012-12-03 Typisch für experimentelles Denken ist vor allem das Generieren und Berprüfen von Hypothesen. Es bildet die Grundlage für naturwissenschaftliches, aber auch für mathematisches Arbeiten. Das Explorieren von Zusammenhängen sowie das Aufstellen und Berprüfen von Hypothesen anhand von Beispielen stellen wichtige Elemente im Prozess mathematischen Erkenntnisgewinns dar. Kathleen Philipp beschreibt und strukturiert diese Tätigkeiten auf der Basis erkenntnistheoretischer Modelle unter dem Begriff des experimentellen Denkens. Mit Hilfe zweier empirischer Studien untersucht und kategorisiert sie kognitive Prozesse experimentellen Denkens im Zusammenhang mit innermathematischen Erkundungen. Sie zeigt, dass sich experimentelle Kompetenzen als verschiedene Fähigkeitsdimensionen erfassen und durch ein geeignetes Training fördern lassen.

Systematicity Paul Hoyningen-Huene, 2013-05-02 In *Systematicity* Paul Hoyningen-Huene answers the question: What is science by proposing that scientific knowledge is primarily distinguished from other forms of knowledge especially everyday knowledge by being more systematic. Science is here understood in the broadest possible sense encompassing not only the natural sciences but also mathematics, the social sciences, and the humanities. The author develops his thesis in nine dimensions in which it is claimed that science is more systematic than other forms of knowledge regarding descriptions, explanations, predictions, the defense of knowledge claims, critical discourse, epistemic connectedness, an ideal of completeness, knowledge generation, and the representation of knowledge. He compares his view with positions on the question held by philosophers from Aristotle to Nicholas Rescher. The book concludes with an exploration of some consequences of Hoyningen-Huene's view concerning the genesis and dynamics of science, the relationship of science and common sense, normative implications of the thesis, and the demarcation criterion between science and pseudo-science.

Characterizing the Robustness of Science Léna Soler, Emiliano Trizio, Thomas Nickles, William Wimsatt, 2012-03-23 Mature sciences have been long been characterized in terms of the successfulness, reliability, or trustworthiness of their theoretical, experimental, or technical accomplishments. Today many philosophers of science talk of robustness often without specifying in a precise way the meaning of this term. This lack of clarity is the cause of frequent misunderstandings since all these notions and that of robustness in particular are connected to fundamental issues which concern nothing less than the very nature of science and its specificity with respect to other human practices, the nature of rationality, and of scientific progress, and science's claim to be a truth-conducive activity. This book offers for the first time a comprehensive analysis of the problem of robustness and in general that of the reliability of science based on several detailed case studies and on

philosophical essays inspired by the so called practical turn in philosophy of science
Max-Planck-Institut für Wissenschaftsgeschichte, 2004

Research Report

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