

To Appear in Our Next Issue (June 2011)

Lay Participation in the History of Scientific Observation
Guest Edited by Jeremy Vetter

Jeremy Vetter		Introduction: Lay Participation in the History of Scientific Observation
Simon Werrett	on	Watching the Fireworks: Early Modern Observation of Natural and Artificial Spectacles
Brita Brenna	on	Clergymen Abiding in the Field: The Making of the Observer in Eighteenth-Century Norwegian Natural History
Oliver Hochadel	on	Watching Exotic Animals Next Door: “Scientific” Observations at the Nineteenth-Century Zoo
Jeremy Vetter	on	Lay Observers, Telegraph Lines, and Kansas Weather: The Field Network as a Mode of Knowledge Production
Victoria Cain	on	The Art of Authority: Exhibits, Exhibit-Makers, and the Contest for Scientific Status in the American Museum of Natural History, 1920–1940
Emmanuel Didier	on	Statistical Surveys: Participatory vs. Industrialized Enumerators in New Deal America
Jenny Beckman	on	Schools, Clubs, Field Guides: Botanical Infrastructures in Sweden, 1850–1950

CAMBRIDGE

JOURNALS

Philosophy

Published for the Royal Institute of Philosophy

PHILOSOPHY

The Journal of the Royal Institute of Philosophy

Volume 85 Number 333 July 2010

Edited by Anthony O'Hear

Contributed by

MARK PLATT

R. READ

ALASDAIR RICHMOND

K. LENNON

N. P. L. SMITH

ANTHONY DE JASAY

ISSN 0030-8019

CAMBRIDGE
UNIVERSITY PRESS

Editor

Anthony O'Hear, *University of Buckingham, UK*

Philosophy is the journal of the Royal Institute of Philosophy, which was founded in 1925 to build bridges between specialist philosophers and a wider educated public. The journal continues to fulfil a dual role: it is one of the leading academic journals of philosophy, but it also serves the philosophical interests of specialists in other fields (law, language, literature and the arts, medicine, politics, religion, science, education, psychology, history) and those of the general reader. Contributors are required to avoid needless technicality of language and presentation. Each issue contains an editorial on a topic of philosophical or public interest, and a 'New Books' section.

The institutional subscription includes two supplements and a subscription to *Think*.

Price information

is available at: <http://journals.cambridge.org/phi>

Free email alerts

Keep up-to-date with new material – sign up at
<http://journals.cambridge.org/phi-alerts>

Philosophy

is available online at:

<http://journals.cambridge.org/phi>

To subscribe contact

Customer Services

in Cambridge:

Phone +44 (0)1223 326070

Fax +44 (0)1223 325150

Email journals@cambridge.org

in New York:

Phone +1 (845) 353 7500

Fax +1 (845) 353 4141

Email

subscriptions_newyork@cambridge.org

For free online content visit:
<http://journals.cambridge.org/phi>



CAMBRIDGE
UNIVERSITY PRESS

CAMBRIDGE

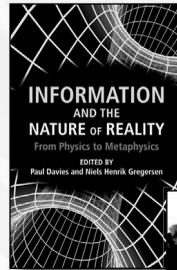
New and Noteworthy from Cambridge

Information and the Nature of Reality

From Physics to Metaphysics

*Edited by Paul Davies
and Niels Henrik Gregersen*

\$30.00: Hardback: 978-0-521-76225-0: 398 pp.

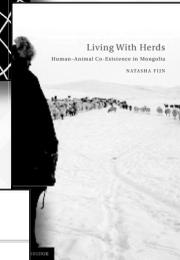


Living with Herds

Human-Animal Coexistence in Mongolia

Natasha Fijn

\$90.00: Hardback: 978-1-107-00090-2: 273 pp.



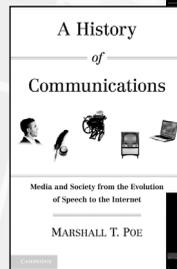
Second Edition

Archaeology and the Social History of Ships

Richard A. Gould

\$90.00: Hardback: 978-0-521-19492-1: 352 pp.

\$22.99: Paperback: 978-0-521-12562-8



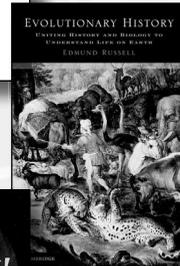
A History of Communications

Media and Society from the
Evolution of Speech to the Internet

Marshall T. Poe

\$85.00: Hardback: 978-1-107-00435-1: 352 pp.

\$24.99: Paperback: 978-0-521-17944-7



Evolutionary History

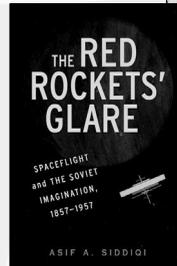
Uniting History and Biology to Understand Life on Earth

Edmund Russell

Studies in Environment and History

\$90.00: Hardback: 978-0-521-76211-3: 230 pp.

\$22.99: Paperback: 978-0-521-74509-3



The Red Rockets' Glare

Spaceflight and the Soviet Imagination, 1957-1957

Asif A. Siddiqi

Cambridge Centennial of Flight

\$85.00: Hardback: 978-0-521-89760-0: 414 pp.

Prices subject to change.

www.cambridge.org/us
800.872.7423



CAMBRIDGE
UNIVERSITY PRESS

CAMBRIDGE

JOURNALS

Arabic Sciences and Philosophy

A Historical Journal

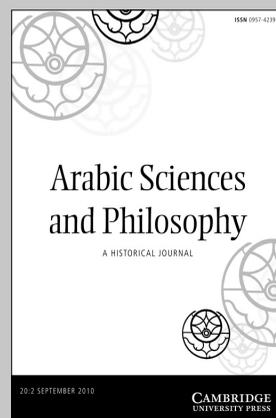
Executive Editor

Roshdi Rashed, *CNRS, Paris, France & University of Tokyo, Japan*

Managing Editor

Ahmed Hasnaoui, *CNRS, Paris, France*

Arabic Sciences and Philosophy (ASP) is an international journal devoted to the Arabic sciences, mathematics and philosophy in the world of Islam between the eighth and eighteenth centuries, in a cross-cultural context. In 2009, the journal extended its scope to include important papers on scientific modernization from the nineteenth century in the Islamic world. Together with original studies on the history of all these fields, *ASP* also offers work on the inter-relations between Arabic and Greek, Indian, Chinese, Latin, Byzantine, Syriac and Hebrew sciences and philosophy. Casting new light on the growth of these disciplines, as well as on the social and ideological context in which this growth took place, *ASP* is essential reading for those interested in these areas.



Arabic Sciences and Philosophy
is available online at:
<http://journals.cambridge.org/asp>

**To subscribe contact
Customer Services**

in Cambridge:

Phone +44 (0)1223 326070

Fax +44 (0)1223 325150

Email journals@cambridge.org

in New York:

Phone (845) 353 7500

Fax (845) 353 4141

Email

subscriptions_newyork@cambridge.org

Free email alerts

Keep up-to-date with new
material – sign up at

journals.cambridge.org/register

For free online content visit:
<http://journals.cambridge.org/asp>



CAMBRIDGE
UNIVERSITY PRESS

CAMBRIDGE

JOURNALS

British Journal for the History of Science

Published for the British Society for the History of
Science

Editor

Jon Agar, *University College London, UK*

This leading international journal publishes scholarly papers and review articles on all aspects of the history of science. History of science is interpreted widely to include medicine, technology and social studies of science. Recent special issues include history of science sources available on the internet, book history and the sciences. *BJHS* papers make important and lively contributions to scholarship and the journal has been an essential library resource for more than thirty years. It is also used extensively by historians and scholars in related fields.



British Journal for the History of Science

is available online at:
<http://journals.cambridge.org/bjh>

To subscribe contact Customer Services

Americas:

Phone +1 (845) 353 7500
Fax +1 (845) 353 4141
Email
subscriptions_newyork@cambridge.org

Rest of world:

Phone +44 (0)1223 326070
Fax +44 (0)1223 325150
Email journals@cambridge.org

Free email alerts

Keep up-to-date with new
material – sign up at
journals.cambridge.org/register

For free online content visit:
<http://journals.cambridge.org>



CAMBRIDGE
UNIVERSITY PRESS

CAMBRIDGE

JOURNALS

The Historical Journal

Editors

Julian Hoppit, *University College London, UK*

Clare Jackson, *University of Cambridge, UK*

The Historical Journal continues to publish papers on all aspects of British, European, and world history since the fifteenth century. The best contemporary scholarship is represented. Contributions come from all parts of the world. The journal aims to publish some thirty-five articles and communications each year and to review recent historical literature, mainly in the form of historiographical reviews and review articles. The journal provides a forum for younger scholars making a distinguished debut as well as publishing the work of historians of established reputation.

VOL 53 NO 3 SEPTEMBER 2010

THE
HISTORICAL
JOURNAL

CAMBRIDGE
UNIVERSITY PRESS

Historical Journal

is available online at:

<http://journals.cambridge.org/his>

To subscribe contact Customer Services

Americas:

Phone +1 (845) 353 7500

Fax +1 (845) 353 4141

Email

subscriptions_newyork@cambridge.org

Rest of world:

Phone +44 (0)1223 326070

Fax +44 (0)1223 325150

Email journals@cambridge.org

Free email alerts

Keep up-to-date with new material – sign up at

journals.cambridge.org/register

For free online content visit:
<http://journals.cambridge.org>



CAMBRIDGE
UNIVERSITY PRESS

CAMBRIDGE

JOURNALS

Modern Intellectual History

Editors

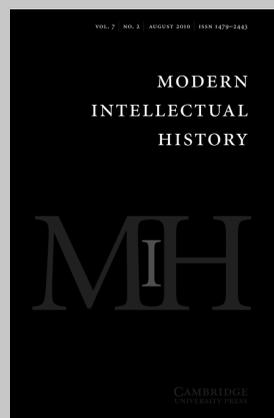
Charles Capper, *Charles Capper*

Duncan Kelly, *University of Cambridge, UK*

Anthony J. LaVopa, *North Carolina State University, USA*

Samuel Moyn, *Columbia University, USA*

This important journal serves as a focal point and forum for scholarship on intellectual and cultural history from the mid-seventeenth century to the present, with primary attention to Europe and the Americas and to transnational developments that encompass the non-West. *MIH* enquires into this era's intellectual discourses and texts, their contextual origins and reception, and the recovery of their historical meanings. The journal encompasses various forms of intellectual and cultural history, including political thought and culture, philosophy, religion, literature and literary criticism, social sciences, natural sciences, visual arts and aesthetic theory, communications, law, economic thought, social and cultural theory, psychology, anthropology, music and the history of the book.



Modern Intellectual History
is available online at:
<http://journals.cambridge.org/mih>

To subscribe contact Customer Services

Americas:

Phone +1 (845) 353 7500

Fax +1 (845) 353 4141

Email

subscriptions_newyork@cambridge.org

Rest of world:

Phone +44 (0)1223 326070

Fax +44 (0)1223 325150

Email journals@cambridge.org

Free email alerts

Keep up-to-date with new
material – sign up at

journals.cambridge.org/register

For free online content visit:
<http://journals.cambridge.org>



CAMBRIDGE
UNIVERSITY PRESS

CAMBRIDGE

JOURNALS

The Journal of Navigation

Published on behalf of
The Royal Institute of Navigation

Editor

Norman Hughes, OBE, The Royal Institute of Navigation, UK

The Journal of Navigation contains original papers on the science of navigation by man and animals over land and sea and through air and space, including a selection of papers presented at meetings of the Institute and other organisations associated with navigation. Papers cover every aspect of navigation, from the highly technical to the descriptive and historical. Subjects include electronics, astronomy, mathematics, cartography, command and control, psychology and zoology, operational research, risk analysis, theoretical physics, operation in hostile environments, instrumentation, ergonomics, financial planning and law. The journal also publishes selected papers and reports from the Institute's special interest groups. Contributions come from all parts of the world.

Price information

is available at: <http://journals.cambridge.org/nav>

Free email alerts

Keep up-to-date with new material – sign up at
<http://journals.cambridge.org/nav-alerts>



The Journal of Navigation

is available online at:

<http://journals.cambridge.org/nav>

To subscribe contact Customer Services

in Cambridge:

Phone +44 (0)1223 326070

Fax +44 (0)1223 325150

Email journals@cambridge.org

in New York:

Phone +1 (845) 353 7500

Fax +1 (845) 353 4141

Email

subscriptions_newyork@cambridge.org

For free online content visit:
<http://journals.cambridge.org/nav>



CAMBRIDGE
UNIVERSITY PRESS

INSTRUCTIONS FOR AUTHORS

Science in Context is an international journal edited at the Cohn Institute for the History and Philosophy of Science and Ideas, Tel Aviv University. It is devoted to the study of the sciences from points of view of comparative epistemology and historical sociology of scientific knowledge. The journal is committed to an interdisciplinary approach to the study of science and its cultural development; it does not segregate considerations drawn from history, philosophy, and sociology. Controversies within scientific knowledge and debates about methodology are presented in their contexts. The journal encourages analyses whose approach is drawn from cognate disciplines such as social anthropology, art history, hermeneutics, and social sciences.

Manuscripts should be submitted, by mail or email, to the editorial office with a cover sheet including your name, fax, telephone number, and email address. The editors require a separate text of 150 words that presents the argument of your paper. Hardcopies should be anonymous and sent in triplicate accompanied by a disk preferably in Rich Text Format (RTF), or a major wordprocessing program such as MS Word. Our mailing address is: Science in Context, The Cohn Institute for the History and Philosophy of Science and Ideas, Tel Aviv University, Ramat Aviv, Tel Aviv 69978, Israel. Submissions by email should be sent to: <sic@post.tau.ac.il>. Submission of a paper is taken to imply that it has not been previously published and that it is not being considered for publication elsewhere. Upon acceptance of the paper, the author will be asked to transfer copyright to Cambridge University Press. There are no page charges.

The journal follows the author-date reference system that is generally used in the social and natural sciences. 'Documentation Two' in *Chicago Manual of Style* and a back issue of the journal should be used as guides when preparing the manuscript.

1. REFERENCE LIST: Full bibliographical information is listed alphabetically at the end of the paper. This list should include all the sources that are cited in parentheses in the text.

a. BOOKS: Author's last name, author's full first name; year, including original date in square brackets when a reprint is being cited; title; editor or translator if applicable; city; publisher. E.g. Bourbaki, Nicolas. [1960] 1994. *Elements of the History of Mathematics*. Translated by John Meldrum. Berlin: Springer.

b. ARTICLES IN BOOKS: Author's last name, author's full first name; year; title of article; title of book; editor or translator if applicable; page numbers; city and publisher. E.g. Corry, Leo. 1996. "David Hilbert and Physics." In *The Symbolic Universe: Geometry and Physics, 1890-1930*, edited by Jeremy Gray, 120-135. Oxford: Oxford University Press.

c. ARTICLES IN PERIODICALS: Author's last name, author's full first name; year; title of article; periodical; volume; page numbers. E.g. Foucault, Michel. 1978. "Politics and the Study of Discourse." *Ideology and Consciousness* 3:7-26.

d. WEBSITES: title; name of editor (if given); version; date of last update; sponsoring institution or organization; date of access; URL. E.g. *American Museum Congo Expedition 1909-1915*. Ver. 2.0. January 2003. American Museum of Natural History. 20 July 2003 <<http://diglib1.amnh.org>>.

2. CITATIONS IN TEXT: The AUTHOR and DATE (and PAGES if relevant) are set off in parentheses in the text and will refer readers to the complete information that is given in the Reference List. E.g. (Corry 1996, 120).

3. FOOTNOTES or ENDNOTES are used only to present important and relevant points that would otherwise interrupt the flow or structure of the paper. These notes are numbered consecutively and listed as endnotes, even though they will appear as footnotes in the journal.

Unusual alphabets, special characters, mathematical and chemical formulas, and all diacritical markings should be marked clearly. A small number of figures may be used to illustrate an article. Line drawings should be directly reproducible; glossy prints should be furnished for all halftone illustrations. If supplying illustrations as electronic files TIFF is the required format with a minimum resolution of 300 dpi for halftones and 1200 dpi for line drawings.

Printed in the United Kingdom at the University Press, Cambridge

SCIENCE IN CONTEXT

VOLUME 24 | NUMBER 1 | MARCH 2011



מכון ון ליר בירושלים

THE VAN LEER JERUSALEM INSTITUTE

معهد فان لير في القدس



THE COHN INSTITUTE FOR THE HISTORY
AND PHILOSOPHY OF SCIENCE AND IDEAS
TEL AVIV UNIVERSITY

- Nils Robert Güttler:** Scaling the Period Eye: Oscar Drude and the Cartographical Practice of Plant Geography, 1870s–1910s 1
- Ana Millán Gasca:** Mathematicians and the Nation in the Second Half of the Nineteenth Century as Reflected in the Luigi Cremona Correspondence 43
- Hélène Gispert and Gert Schubring:** Societal, Structural, and Conceptual Changes in Mathematics Teaching: Reform Processes in France and Germany over the Twentieth Century and the International Dynamics 73
- Fredrik Bragesjö and Margareta Hallberg:** Dilemmas of a Vitalizing Vaccine Market: Lessons from the MMR Vaccine/Autism Debate 107

Cover illustration: A distillation flask from a Dutch laboratory of chemistry, ca. 1700, exhibited at the Stedelijk Museum of Alkmaar, Netherlands.

Cambridge Journals Online

For further information about this journal
please go to the journal website at:
journals.cambridge.org/sic



Mixed Sources

Product group from well-managed
forests and other controlled sources
www.fsc.org Cert no. SA-COC-1527
© 1996 Forest Stewardship Council

CAMBRIDGE
UNIVERSITY PRESS