

PHILOSOPHY

Published for the Royal Institute of Philosophy

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

Editor

Anthony O'Hear, University of Buckingham, UK

Philosophy 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.

Price information is available at:

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

Free email alerts

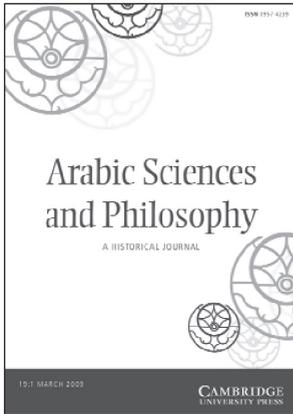
Keep up-to-date with new material – sign up at

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

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



**CAMBRIDGE
UNIVERSITY PRESS**



20th Volume in 2010

Arabic Sciences and Philosophy

Executive Editors

Roshdi Rashed, CNRS, Paris, France

Basim Musallam, University of Cambridge, UK

Managing Editor

A. Hasnaoui, CNRS, Paris, France

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

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.

Price information is available at

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

20th Volume in 2010

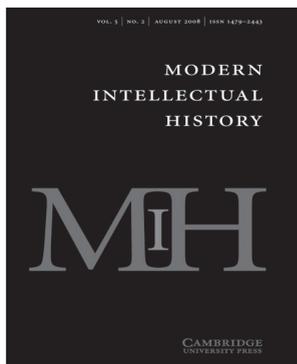
To celebrate, read classic papers for free at

<http://journals.cambridge.org/asp20>

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



CAMBRIDGE
UNIVERSITY PRESS



MODERN INTELLECTUAL HISTORY

Modern Intellectual History

is available online at:

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

**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

Editors

Charles Capper, Boston University, USA

Anthony J. La Vopa, North Carolina State University, USA

Samual Moyn, Columbia University, USA

Nicholas T. Phillipson, Edinburgh University, UK

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. *Modern Intellectual History* enquires into this era's intellectual discourses and texts, their ontexual origins and reception, and the recovery of their historical meanings.

Price information is available at:
<http://journals.cambridge.org/mih>

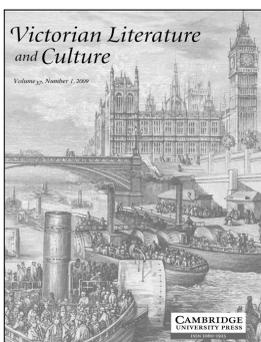
Free email alerts

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

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



**CAMBRIDGE
UNIVERSITY PRESS**



Victorian Literature and Culture

Victorian Literature and Culture

is available online at:

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

**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

Editors

John Maynard, New York University, USA

Adrienne Munich, State University of New York at Stony Brook,
USA

Victorian Literature and Culture encourages high quality original work concerned with all areas of Victorian literature and culture, including music and the fine arts. The journal presents work at the cutting edge of current research, including exciting new studies in untouched subjects or new methodologies.

Price information is available at:

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

Free email alerts

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

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

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



**CAMBRIDGE
UNIVERSITY PRESS**

CAMBRIDGE

JOURNALS



SCIENCE IN CONTEXT

Science in Context

is available online at:

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

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

Editors

Asaf Goldschmidt, Tel Aviv University, Israel

Alexandre Métraux, University of Mannheim, Germany

Jürgen Renn, Max-Planck-Institut für

Wissenschaftsgeschichte, Berlin, Germany

Science in Context is an international journal devoted to the study of the sciences from the 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.

Price information is available at:

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

Free email alerts

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

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

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



**CAMBRIDGE
UNIVERSITY PRESS**

THE BRITISH SOCIETY FOR THE HISTORY OF SCIENCE

Membership of the Society, which includes a subscription to *The British Journal for the History of Science*, is open to all persons approved by the Council of the Society and elected at an ordinary meeting. The annual subscription for the membership year 2010 is £41.00 (\$66.00) or £22.00 (\$34.00 or €32) for associate membership, which includes students at centres of higher education. There is an Introductory Offer for ordinary members who pay £33.00 (£66.00) for the first year. Applications for membership should be made on a form available from the Society's Executive Secretary at the address below. Payment may be made by cheque or credit card.

The British Journal for the History of Science is the official organ of the Society. All correspondence on the contents of the Journal should be addressed to the Editor, Jon Agar, Department of Science and Technology Studies, University College London, London WC1E 6BT, email ucrjhea@ucl.ac.uk

Book reviews: Books for review should be sent to the Reviews Editor, Dr Adam Mosley, School of Arts and Humanities: History and Classics, Swansea University, Singleton Park, Swansea, SA2 8PP, Wales, United Kingdom.

BSHS publications: BSHS Monograph Series is designed to allow the publication of monographic studies in the history of science quickly and cheaply. All correspondence on the subject of monographs should be sent to Lucy Tetlow, Executive Secretary, PO Box 3401, Norwich NR7 7JF. Twelve monographs are currently available.

Recent titles are as follows:

Images of the Earth: Essays in the History of the Environmental Sciences. Edited by L. J. Jordanova and R. Porter. Second edition. 1997. £17.

Science in Art: Works in the National Gallery that illustrate the History of Science and Technology. By J. V. Field and F. A. J. L. James. 1997. £15.

To See the Fellows Fight: Eye-witness accounts of meetings of the Geological Society of London and its Club, 1822-1868. By J. C. Thackray. 2003. £15.

The Society's newsletter, *Viewpoint*, an informal publication, appears three times a year. It is free to members, £10.00 (£20.00) for institutions and non-members from the Executive Secretary.

Administrative business of the Society is handled by Lucy Tetlow, Executive Secretary, British Society for the History of Science, PO Box 3401, Norwich, NR7 7JF. The Society is registered in England as a Limited Company (No. 562208) and is a Registered Charity (No. 258854). Telephone and Fax (44) (0) 1252 641135. Email lucy.tetlow@bshs.org.uk.

Information about the Society is available through the Internet: <http://www.bshs.org.uk>

Copying: This journal is registered with the Copyright Clearance Center, 222 Rosewood Drive, Danvers, MA 09123. Organizations in the USA who are also registered with the CCC may therefore copy material (beyond the limits permitted by sections 107 and 108 of US copyright law) subject to payment to CCC of the per-copy fee of \$12.00. This consent does not extend to multiple copying for promotional or commercial purposes. Code 0007-0874/2010 \$12.00.

ISI Tear Sheet Service, 3501 Market Street, Philadelphia, Pennsylvania 19104, USA, is authorized to supply single copies of separate articles for private use only.

Organizations authorized by the Copyright Licensing Agency may also copy material subject to the usual conditions. Articles from the Journal in electronic or microfiche form can be obtained from Cambridge Journals Online (www.journals.cambridge.org), Proquest (www.proquest.com) and NAPC (www.napubco.com).

For all other use, permission should be sought from Cambridge University Press or from its American branch.

Advertising: Contact the Journals Advertising Manager, Cambridge University Press, The Edinburgh Building, Shaftesbury Road, Cambridge CB2 8RU.

Back volumes are obtainable as follows: Volumes 1–23: BSHS Executive Secretary, PO Box 3401, Norwich, NR7 7JF, UK. For Volume 24 onwards, apply to Cambridge University Press in printed form.

Information on the *British Journal for the History of Science* and all other Cambridge journals can be accessed via journals.cambridge.org

Claims for missing issues should be made immediately on receipt of the subsequent issue.

This journal issue has been printed on FSC-certified paper and cover board. FSC is an independent, non-governmental, not-for-profit organization established to promote the responsible management of the world's forests. Please see www.fsc.org for information.

Printed in the United Kingdom at the University Press, Cambridge

*The British
Journal
for the
History of
Science*

BJHS

*Volume 43
Part 3 No. 158*

September 2010

- 327 The Roman Inquisition's precept to Galileo (1616)
THOMAS F. MAYER
- 353 Observation, working images and procedure: the 'Great Spiral' in
Lord Rosse's astronomical record books and beyond
OMAR W. NASIM
- 391 The problem of raccoon intelligence in behaviourist America
MICHAEL PETTIT
- 423 Test objects and other epistemic things: a history of a nanoscale
object
CYRUS C. M. MODY AND MICHAEL LYNCH
- 459 Obituary
- 469 Essay review: A field comes of age
- 475 Book reviews
- 509 Books received

B S H S
THE BRITISH
SOCIETY FOR
THE HISTORY
OF SCIENCE

*Published for
by*

The British Society for the History of Science
Cambridge University Press

Cambridge Journals Online
For further information about this journal
please go to the journal website at:
journals.cambridge.org/bjh



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**