

*The British
Journal
for the
History of
Science*

BJHS

*Volume 15
Part 1 No 49*

March 1982

ISSN 0007-0874

Published by The British Society for the History of Science

Editorial Board

Editor

David Knight
Department of Philosophy
50 Old Elvet
Durham DH1 3HN

Robert Bud
Science Museum
South Kensington
London SW7 2DD

John Christie
Department of Philosophy
The University of Leeds
Leeds LS2 9JT

John Durant
(Book Reviews Editor)
411 Physics Tower
University College of Swansea
Singleton Park
Swansea SA2 8PP

Michael Hunter
Department of History
Birkbeck College
University of London
Malet Street
London WC1E 7HX

John Thackray
The Geological Museum
Exhibition Road
London SW7 2DE

Australasian representative

Rod Home
Department of History &
Philosophy of Science
University of Melbourne
Parkville
Victoria
Australia 3052

The *Journal* is the official publication of the British Society for the History of Science. It appears in March, July, and November each year, the three issues making a volume.

Contributions are welcome from members or non-members in all countries, and should be sent to the Editor (or a member of the Editorial Board). Include an abstract of 150–200 words. They are considered on the understanding that they are unpublished and are not on offer to another journal. Two copies should be submitted, typed in double-spacing with a margin on A4 or American Quarto paper. Quotations when long should be inset; when short, in single quotation marks. Spelling should follow the *Oxford English dictionary*, and arrangement H. Hart, *Rules for compositors*, Oxford, many edns. Be clear and consistent.

All papers should be rigorously documented, with references to primary and secondary sources typed separately from the text in double spacing, and numbered consecutively. Cite as follows:

14 J. Smith and J. Bloggs, *Early chemistry and the Royal Society*, 2nd edn. (ed. H. Jones, tr. R. Roe), 5 vols. in 6, Edinburgh & London, [1896]–1914; reprinted, New York, 1965, i(ii), chapter VI, especially pp. 123–31. Only name the publisher for good reason. For a symposium: 15 J. Doe (ed.), *Science yesterday*, 2 vols., Oxford, 1977, i. 16. Subsequent references may be written: 17 Doe, op. cit. (15), ii, 34. Standard works like *D.N.B.*, *D.S.B.*, may be thus cited; also Plato, *Timaeus*, 27C–32C, *Genesis*, I, 6, identifying translation or edition if necessary. Articles—use italics for volume numbers, Roman numbers for journals which have appeared in various series: e.g. 7 J. J. Thomson, ‘Cathode rays’, *Phil. Mag.*, 1897, V, 44, 293–316. If a journal is called after its editor, put e.g. [*Liebig’s*] *Annalen*. Thesis titles go in single inverted commas; where possible, cite University Microfilm order number, or at least Dissertations Abstract number. For MSS, e.g. British Library Add. MSS. 34611, ff. 99–100; or Linnaeus to John Walker, 22 February 1762, Edinburgh University Library MS. La. III. 32. Line drawings or graphs if in Indian ink can be incorporated in the text; and photographs can be included; but a subvention may be required from authors. The place of an illustration should be indicated in the margin of the text. Each illustration must carry the name of the author and article, its number, and a caption. Xerox copies may be sent when the article is first submitted for consideration.

The British Society for History of Science retains copyright for all articles published; it is the author’s responsibility to secure any necessary permission for publication. Authors will receive twenty-five offprints of articles free. The editor cannot accept responsibility for loss of a typescript, but will take every care of it; typescripts are not normally returned to authors. In all matters concerning the publication of the article, the Editor’s decision is final.

*The British
Journal
for the
History of
Science*

BJHS

Volume 15 1982

Editor: David Knight

Published by

The British Society for the History of Science
Registered Office: Halfpenny Furze, Mill Lane,
Chalfont St Giles, Bucks HP8 4NR

© The British Society for the History of Science 1982
ISSN 0007-0874

Editorial Board

Editor

David Knight
Department of Philosophy
50 Old Elvet
Durham DH1 3HN

Robert Bud
Science Museum
South Kensington
London SW7 2DD

John Christie
Department of Philosophy
The University of Leeds
Leeds LS2 9JT

John Durant
(Book Reviews Editor)
411 Physics Tower
University College of Swansea
Singleton Park
Swansea SA2 8PP

Michael Hunter
Department of History
Birkbeck College
University of London
Malet Street
London WC1E 7HX

John Thackray
The Geological Museum
Exhibition Road
London SW7 2DE

Australasian representative

Rod Home
Department of History &
Philosophy of Science
University of Melbourne
Parkville
Victoria
Australia, 3052

Book Reviews

DARWINIANA

- D.R. Oldroyd, **Darwinian impacts: an introduction to the Darwinian revolution.** By J.H. Brooke 72
- Greta Jones, **Social Darwinism and English thought: the interaction between biological and social theory.** By Ted Benton 74
- Robert C. Bannister, **Social Darwinism: science and myth in Anglo-American social thought.** By John Durant 76
- William Bateson, **Problems of genetics.** By Bernard Norton 78
- Martha McMackin Garland, **Cambridge before Darwin: the ideal of a liberal education, 1800-1860.** By J.B. Morrell 79

BIOGRAPHY

- Stephen J. Pyne, **Grove Karl Gilbert: a great engine of research.** By Roy Porter 79
- Ronald W. Clark, **Freud: the man and the cause.** By John Forrester 81
- Bentley Glass (ed), **The roving naturalist: travel letters of Theodosius Dobzhansky.** By Luther Val Giddings 82

BIBLIOGRAPHY

- A.J. Meadows (ed), **Development of science publishing in Europe.** By Roger French 84
- David Bearman and John T. Edsall (ed), **Archival sources for the history of biochemistry and molecular biology: a reference guide and report.** By Robert Olby 85

TECHNOLOGY AND DEVELOPMENT

- Anne Van Neck, **Les Débuts de la machine à vapeur dans l'industrie belge, 1800-1850.** By Jennifer Tann 86
- Ian Inkster, **Japan as a development model? relative backwardness and technological transfer.** By W.H. Brock 88
- Robert Fox and George Weisz (ed), **The organization of science and technology in France 1808-1914.** By Dorinda Outram 90
- Lucile H. Brockway, **Science and colonial expansion: the role of the British Royal Botanic Gardens.** By D.E. Allen 91
- Robert Lewis, **Science and industrialisation in the USSR: industrial research and development 1917-40.** By Stephen M. Tupper 93

Note. From now on, the title page of the March issue will be the title page of the whole volume of the journal. The July and November issues will no longer have title pages; the list of contents for each part will be listed on the back cover. November issues will contain at the back the list of contents for the entire year, and the index.

COPYING: This journal is registered with the Copyright Clearance Center Inc., 21 Congress Street, Salem MA01970. Organizations in the USA who are also registered with C.C.C. may therefore copy material beyond the limits permitted by sections 107 and 108 of U.S. Copyright Law, subject to payment to C.C.C. of the per copy fee indicated in the code on the first page of the article. This consent does not extend to multiple copying for promotional or commercial purposes.