

Charles Blacker Vignoles: Romantic Engineer

K. H. VIGNOLES

Drawing upon original records and Vignoles' own diaries his great grandson illuminates the personal background of one of the great pioneers of the Victorian age of civil engineering, a man who has been somewhat overshadowed by his contemporaries the Stephensons, Brunel and Locke.

£18.00 net

A History of the Theory of Structures in the Nineteenth Century

T. M. CHARLTON

Today's spectacular structures are the result of scientific principles established during the new iron age of the nineteenth century. This book is concerned with a detailed and critical account of the development and application of those principles by people of remarkable talent in applied mathematics and engineering.

£22.00 net

From Medical Chemistry to Biochemistry

The Making of a Biomedical Discipline

ROBERT E. KOHLER

This is a detailed history of the emergence of biochemistry as a discipline separate from medical chemistry which provides a penetrating study of institutional building and entrepreneurship in science.

£22.50 net

Cambridge Monographs on the History of Medicine

Energy, Force and Matter

The Conceptual Development of Nineteenth-Century Physics

P. M. HARMAN

This book traces the transformation in the scope of physics in the early nineteenth century to the emergence of modern physics in the early work of Einstein. The author clarifies the status of field theory, the ether and thermodynamics in the work of the period.

Hard covers £13.50 net

Paperback £5.50 net

Cambridge History of Science Series

**CAMBRIDGE
UNIVERSITY PRESS**

INDEX OF BOOKS REVIEWED

Lawrence Badash, Joseph O. Hirschfelder & Herbert P. Broida (ed.), <i>Reminiscences of Los Alamos, 1943-1945</i> . By John Hendry	201
Robert C. Bannister, <i>Social Darwinism: science and myth in Anglo-American social thought</i> . By John Durant	76
William Bateson, <i>Problems of genetics</i> . By Bernard Norton	78
David Bearman and John T. Edsall (ed.), <i>Archival sources for the history of biochemistry and molecular biology: a reference guide and report</i> . By Robert Olby	85
Enrico Bellone, <i>A World on Paper: Studies on the Second Scientific Revolution</i> . By Crosbie Smith	197
Wolfgang G. Bringmann and Ryan D. Tweney (ed.), <i>Wundt studies: a centennial collection</i> . By Roger Smith	285
W. G. Bringmann and E. Scheerer (ed.), 'Wundt centennial issue', <i>Psychological Research</i> . By Roger Smith	285
Lucile H. Brockway, <i>Science and colonial expansion: the role of the British Royal Botanic Gardens</i> . By D.E. Allen	91
Ronald W. Clark, <i>Freud: the man and the cause</i> . By John Forrester	81
Robert Fox and George Weisz (ed.), <i>The organization of science and technology in France 1808-1914</i> . By Dorinda Outram	90
A.P. French (ed.), <i>Einstein. A Centenary Volume</i> . By John Hendry	200
Martha McMackin Garland, <i>Cambridge before Darwin: the ideal of a liberal education, 1800-1860</i> . By J.B. Morrell	79
C.C. Gillespie, <i>Science and Polity in France at the End of the Old Regime</i> . By Barbara Haines	191
Bentley Glass (ed.), <i>The roving naturalist: travel letters of Theodosius Dobzhansky</i> . By Luther Val Giddings	82
Peter Goodchild, <i>J. Robert Oppenheimer 'Shatterer of Worlds'</i> . By Edward Yoxen	204
Philip Gummert, <i>Scientists in Whitehall</i> . By Edward Yoxen	195
Mary Hesse, <i>Revolutions and Reconstructions in the Philosophy of Science</i> . By David Bloor	306
Michael Hunter, <i>Science and Society in Restoration England</i> . By Penelope M. Gouk	193
Ian Inkster, <i>Japan as a development model? relative backwardness and technological transfer</i> . By W.H. Brock	88
Greta Jones, <i>Social Darwinism and English thought: the interaction between biological and social theory</i> . By Ted Benton	74
Colette M. Kinnon with A.N. Kholodinin & J.G. Richardson, <i>The Impact of Modern Scientific Ideas on Society: in Commemoration of Einstein</i> . By John Hendry	200
D.A. Wittop Koning & G.M.M. Houben, <i>2000 Jaar Gewichten in de Nederlanden: stelsels, ijkwezen, vormen, makers, merken, gebruik</i> . By G.L'E. Turner	313
Bruno Latour & Steve Woolgar, <i>Laboratory Life: the Social Construction of Scientific Facts</i> . By Alan Irwin	208
Robert Lewis, <i>Science and industrialisation in the USSR: industrial research and development 1917-40</i> . By Stephen M. Tupper	93
Lina L. Lubrano & Susan Gross Solomon (ed.) <i>The Social Context of Soviet Science</i> . By Jonathan Harwood	189
Anita McConnell, <i>Geomagnetic instruments before 1900: An illustrated account of their construction and use</i> . By R.H. Nuttall	314
A.J. Meadows (ed.), <i>Development of science publishing in Europe</i> . By Roger French	84
Zhores Al Medvedev, <i>Soviet Science</i> . By Jonathan Harwood	189
Nevill Mott (ed.), <i>The beginnings of solid state physics</i> . By John Hendry	309
D.R. Oldroyd, <i>Darwinian impacts: an introduction to the Darwinian revolution</i> . By J.H. Brooke	72
Stephen J. Pyne, <i>Grove Karl Gilbert: a great engine of research</i> . By Roy Porter	79
R.W. Rieber (ed.), <i>Wilhelm Wundt and the making of a scientific psychology</i> . By Roger Smith	285
Ruggiero Romano & Corrado Vivanti (ed.), <i>Storia d'Italia: Annali 3: Scienza e tecnica nella cultura e nella società dal Rinascimento a oggi, a cura di Gianni Micheli</i> . By Dorinda Outram	293
Michael M. Sokal (ed.), <i>An education in psychology: James McKeen Cattell's journal and letters from Germany and England, 1880-1888</i> . By Roger Smith	285
Katherine Russell Sopka, <i>Quantum Physics in America, 1920-1935</i> . By David C. Cassidy	202
P.R. Srinivasan, J.S. Fruton and J.T. Edsall (ed.), <i>The origins of modern biochemistry: a retrospect on proteins</i> . By Abir-Am Pnina	301
Loyd S. Swenson, Jr., <i>Genesis of Relativity: Einstein in Context</i> . By David Gooding	199
Loyd S. Swenson Jr., C.P. Snow, Howard Stein & Ilya Prigogine, <i>Albert Einstein: Four Commemorative Lectures</i> . By John Hendry	200
P.H. Sydenham, <i>Measuring instruments: tools of knowledge and control</i> . By Willem D. Hackmann	310
Gerard L'E. Turner, <i>Antique scientific instruments</i> . By Robert Fox	310
Gerard L'E. Turner, <i>Essays on the history of the microscope</i> . By Willem D. Hackmann	312
Anne Van Neck, <i>Les Débûts de la machine à vapeur dans l'industrie belge, 1800-1850</i> . By Jennifer Tann	86

In welcoming John Hendry as Reviews Editor, we would like to express our thanks to John Durant for all the work he has done in that office, and our pleasure that he will continue to be a member of the Editorial Board.

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 (formalities required by the UK Companies Act). The annual subscription for the membership year 1982–83 is £12.00 (US\$28.00 in the Americas, Canada, and Japan) or for students, £5.00 (\$11.00). Applications for membership should be made on a form which is available from the Society's **Administrator** at the address below.

Meetings: The Society mounts an ambitious programme of meetings. The pattern is flexible, the only fixture being the three-day summer meeting, held at a different British University or Polytechnic each year. About four other meetings, lasting for between one and three days, are held during the year, sometimes devoted to a clearly-defined theme or an important anniversary, and often arranged in conjunction with other scholarly societies.

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, Dr David Knight, Department of Philosophy, University of Durham, 50 Old Elvet, Durham DH1 3HN, England.**

Books for review should be sent to the **Reviews Editor, Dr John Hendry, 58 Canfield Gardens, London NW6 3EB.**

Advertising: Particulars about advertising in the *Journal* may be obtained from the Society's **Administrator**.

Orders and back issues: Orders for the *Journal* and inquiries about back issues should be addressed to the **Administrator**. Claims for missing copies should be made within six months of publication. The 1982 subscription rate for non-members is £20.00 (\$50.00).

Other 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, and any new suggestions for titles, should be sent to the Series Editor, **Dr Roger Smith, Department of History, University of Lancaster, Bailrigg, Lancaster LA1 4YG, England.** Monographs are available to members at a special price, post-free from the Society's **Administrator**. Non-members may obtain them through bookshops, or post-free from the **Administrator**. Now available:

1. *Images of the earth: essays in the history of the environmental sciences.* Ed. by L. J. Jordanova and R. Porter. 1979. £6.75 (£5.00 to members).
2. *The letters of Georges Cuvier: a summary calendar.* Ed. by Dorinda Outram. 1980. £4.50 (£3.50 to members).
3. *The Royal Society and its Fellows 1660–1700: the morphology of an early scientific institution.* By M. Hunter. Provisional price £7.50 (£5.60 to members).
4. *Rationality and ritual: the Windscale Inquiry and nuclear decisions in Britain.* By B. Wynne. Provisional price £6.50 (£4.90 to members).

List of theses: Every December, the Society publishes a full list of current theses in history of science in British universities. This is available free to members, and at a small charge to non-members on request to the **Administrator**. Standing orders are accepted from members or non-members who wish to receive the list regularly.

The Society's *Newsletter*, an informal publication edited by Dr P. M. D. Collins, 24 Woodgrange Avenue, London W5 3NY, appears in January, May and September each year. It is free to members, £3 for institutions and non-members.

All the administrative business of the Society is handled by
The Administrator, The British Society for the History of Science, Halfpenny Furze, Mill Lane, Chalfont St Giles, Bucks HP8 4NR, England.

*The British
Journal
for the
History of
Science*

BJHS

*Volume 15
Part 3 No 51*

November 1982

- 211 **John Henry:** Atomism and Eschatology:
Catholicism and Natural Philosophy in the
Interregnum
- 241 **Robert J. Richards:** The Emergence of
Evolutionary Biology of Behaviour in the
early Nineteenth Century
Collections IX:
- 281 **W. A. Campbell:** Library resources for
the History of Science in Newcastle upon
Tyne
Essay Reviews:
- 285 **Roger Smith:** William Wundt resurrected
- 293 **Dorinda Outram:** Italian Science
- 301 **Abir-Am Pnina:** Modern Biochemistry
- 306 Book Reviews
- 315 Books Received
- 317 Report of Council for 1981–2
- 321 Contents of Volume 15

Published by

The British Society for the History of Science

Registered Office: Halfpenny Furze, Mill Lane,
Chalfont St Giles, Bucks HP8 4NR

Price: £8.00 or \$18.00 including postage
(Free to members of the Society)

© The British Society for the History of Science 1982

Printed in Great Britain at the Alden Press, Oxford