Dimensions of Darwinism

Themes and Counter-Themes in Twentieth-century Evolutionary Theory Edited by MARJORIE GRENE

This collection of stimulating essays provides a series of unique insights into twentieth-century evolutionary theory. The impact of individuals such as Lamarck and Sewall Wright is considered alongside concepts such as eugenics, systematics, mimesis and morphology. £15.00 net

Co-publication with the Maison des Sciences de l'Homme

The Tiger and the Shark

Empirical Roots of Wave-Particle Dualism

BRUCE R. WHEATON

Bruce Wheaton explains why Einstein's 1905 attempt at resolution was not initially taken seriously and examines the mixture of ideas that ultimately came together to create a new, anti-deterministic formulation of the laws of nature. The process by which the classical wave explanation of energy transfer gave way to 'wave-particle dualism' is vividly described.

Cecilia Payne-Gaposchkin

Her Autobiography and Other Recollections Edited by KATHERINE HARAMUNDANIS

The first woman professor and head of department at Harvard, Cecilia Payne-Gaposchkin can lay claim to be the greatest woman astronomer ever. This book traces her early life and academic career and is augmented by personal recollections of her daughter and historical appreciations from colleagues.

£19.50 net

Science and Religion in the Nineteenth Century

Edited by TESS COSSLETT

Centring on the Darwinian controversy, with extracts from *The Origin of Species* and *The Descent of Man*, and from opponents and supporters of Darwin, this volume contains selections from nineteenth-century writers involved in the debate about the relation of science and religion.

Cambridge English Prose Texts

Paperback £7.95 net

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 (formalities required by the UK Companies Act). The annual subscription for the membership year 1984-85 is £12.00 (US\$24.00 in the Americas, Canada, and Japan) or for students, £6.00 (\$12.00).

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 1984 subscription rate for non-members is £24.00 (\$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. Rationality and ritual: the Windscale Inquiry and nuclear decisions in Britain. By B. Wynne. £6.50 (£4.90 to members). 4. The Royal Society and its Fellows 1660–1700: the morphology of an early scientific institution. By

M. Hunter. £5.90 (£4.40 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, £4.50 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

Ι



Volume 17 Part 1 No 55	March	1984
33		J = I

ii	Editorial
I	Robert Paul: German Academic Science and the Mandarin Ethos
31	Homer E. Le Grand: Theory and Application: the Early Chemical Work of J. A. C. Chaptal
47	Frank A. J. L. James: The Physical Interpretation of the Wave Theory of Light
	Notes and Essay Reviews
61	Henry Guerlac: 'Newton's Mathematical Way': Another Look
64	Paul Weindling: Darwinism and the Origin of Psychoanalysis
67	Graham C. Gibbs: The Radical Enlightenment
83	Obituary: Walter Pagel, 1898–1983
85	Book Reviews
23	Books Received

Published by The British Society for the History of Science

Registered Office: Halfpenny Furze, Mill Lane,

Chalfont St Giles, Bucks HP8 4NR

Price: £9.00 or \$18.00 including postage

(Free to members of the Society)

The British Society for the History of Science 1984

Printed in Great Britain at the Alden Press, Oxford