

NOTES AND RECORDS OF THE ROYAL SOCIETY

This journal, first published in 1938, contains articles and notes on the work and history of the Royal Society and its Fellows. It was originally issued as a house journal to Fellows of the Royal Society only, but the interest of the articles drew the attention of librarians and students of science to the journal as a valuable work of reference for those concerned with the history of science. So many enquiries were received that it was decided to make *Notes and Records of the Royal Society* generally available. This journal is now regarded as an important source of information on the history and work of the Royal Society.

Each volume (except Vol. 15) consists of two parts. The current price is 15s. (\$2.25) per part plus 1s. (\$0.15) postage; two parts are issued annually.

Volume 18, number 1 (76 pages, 14 half-tone plates), was published in June 1963.

CONTENTS

Anniversary Dinner 1962. Speeches by Admiral of the Fleet the Earl Mountbatten of Burma and Sir Howard Florey, P.R.S.

Short-writing and the state of Newton's conscience, 1662

By Richard S. Westfall

Newton's rooms in Trinity

By The Lord Adrian, O.M., F.R.S.

Dryden and the scientific image

By George Watson

The author of Wing C6727: Daniel Coxe, F.R.S. or Thomas Coxe, F.R.S.

By Frank H. Ellis

Henry Miles, F.R.S. (1698-1763) and Thomas Birch, F.R.S. (1705-66)

By Marie Boas Hall

Josiah Wedgwood's portrait medallions of Fellows of the Royal Society

By John Thomas

An index to C. T. R. Wilson's laboratory records and notebooks in the Library of the Royal Society

By P. I. Dee, F.R.S. and T. W. Wormell

The Society's Notes, including a group portrait of the Society's Medallists, 1962.

Bibliography of recent books and articles dealing with the history of the Royal Society

Volume 18, number 2, December 1963, will include articles on Samuel Pepys, William Molyneux, Henry Oldenburg, Robert Boyle and John Herapath.

CONTENTS

	PAGE
The effect of intermolecular forces upon the vibrations of molecules in the crystalline state. I. The out-of-plane bending of the carbonate ion in aragonite minerals. By J. C. DECIUS, O. G. MALAN and H. W. THOMPSON, F.R.S.	295
Kinetic studies with a Ziegler catalyst system in the gaseous phase. By R. D. A. LIPMAN and R. G. W. NORRISH, F.R.S.	310
Electron energy distributions in plasmas. V. A search for evidence of a high anomalous rate of energy exchange between the electrons of a low-pressure discharge. By N. D. TWIDDY	338
The contraction of satellite orbits under the influence of air drag. IV. With scale height dependent on altitude. By G. E. COOK and D. G. KING-HELE	357
The rate of energy loss of high-energy cosmic ray muons. By P. J. HAYMAN, N. S. PALMER and A. W. WOLFENDALE	391
The acetylene decomposition flame and the deduction of reaction mechanism from 'global' flame kinetics. By J. D. CHASE and F. J. WEINBERG. (Plate 16)	411
The carbon monoxide flame bands. By R. N. DIXON. (Plates 17 and 18)	431