LETTERS

EDITORIAL
Books about Science ........................................................................................................... 943

ARTICLES
A Comparison of U.S. and Soviet Efforts to Explore Mars: B. C. Murray and M. E. Davies ................................................................. 945
U.S. effort remains minimal despite early success, Soviet effort remains large despite early failures.
The 1965 Eruption of Taal Volcano: J. G. Moore, K. Nakamura, A. Alcaraz ........ 955
Catastrophic explosions are caused by lake water entering a volcanic conduit.
Molecular Orbital Densities: Pictorial Studies: A. C. Wahl .................................................. 961
Comparisons of the hydrogen, lithium, boron, carbon, nitrogen, oxygen, and fluorine molecules.

NEWS AND COMMENT
Report from Europe: How Quickly Will Europe Close the Science Spending Gap?: V. K. McElheny .............................................................. 976

BOOK REVIEWS

REPORTS
Superconductivity of Beta-Uranium: B. T. Matthias et al. .................................................. 985
Direct Evidence for the Cathodic Depolarization Theory of Bacterial Corrosion: W. P. Iverson .......................................................................... 986
Acrylamide-Gel Electrophorograms by Mechanical Fractionation: Radioactive Adenovirus Proteins: J. V. Maizel, Jr. .......................................................... 988

Oxidation of Graphitic Carbon in Certain Soils: E. A. Shneour .......................................................... 991

Polyribosome Disaggregation during Metaphase: M. D. Scharff and E. Robbins .......................................................... 992

Blood Flow in the Microvasculature of the Conjunctiva of Man: R. E. Wells, E. R. Schildkraut, H. E. Edgerton .......................................................... 995

Culture of a Planktonic Calanoid Copepod through Multiple Generations: E. J. Zillioux and D. F. Wilson .......................................................... 996

Antagonism of Purified Asparaginase from Guinea Pig Serum toward Lymphoma: T. O. Yellin and J. C. Wriston, Jr. .......................................................... 998

Electron Microscopic Autoradiography of Rabbit Reticulocytes Active and Inactive in Protein Synthesis: A. Miller and A. B. Maunsbach .......................................................... 1000

Polysome Morphology: Evidence for Endocrine Control during Chick Embryogenesis: M. B. Yatvin .......................................................... 1001

Quenchable High-Pressure Polymorph of Zinc Selenate: C. W. F. T. Pistorius .......................................................... 1003


Actinomycin D: Inhibition of Respiration and Glycolysis: J. Laszlo et al. .......................................................... 1007

Transport of Sugars and Amino Acids in the Intestine: Evidence for a Common Carrier: F. Alvarado .......................................................... 1010

Visually Evoked Potentials: Amplitude Changes with Age: R. E. Dustman and E. C. Beck .......................................................... 1013

Comment Report: Atmospheric Noble Gases from Extraterrestrial Dust: D. Tilles .......................................................... 1015

MEETINGS

Drugs Affecting Lipid Metabolism: D. Kritchevsky; Forthcoming Events .......................................................... 1016

COVER

Electron density contour diagrams displaying the molecular orbital model of the fluorine molecule. The total electron density is illustrated in the bottom, right-hand drawing; other diagrams are of the seven different molecular orbitals making up the molecule. These diagrams were calculated and drawn by electronic computers. See page 961. [Argonne National Laboratory, Argonne, Illinois]
AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE

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Books about Science

Publishers' Weekly brings the information that 20,234 new books were published in the United States in 1965. Of these, 1850 were in the science category, 942 were in technology, 2372 were in sociology and economics, and 582 were in psychology and philosophy.

Chiefly from the science category, but from other groups as well, the AAAS publication Science Books is now reviewing and rating about 900 books a year that appear to be of general or library interest. There is a welcome trend in books of this kind: the quality seems to be improving. Fewer appear to have been produced by an author who simply went to the library, borrowed from some older works, and whipped up a new volume in time for the Christmas trade. In recent years the university presses have shown an increasing interest in this area of publication. The sponsors of the improved science courses for high school students have brought out some excellent books for collateral reading or to extend the student's range. Other good series are being produced under other auspices. More science books for general audiences are being written by well-trained science writers and professional scientists, and some of their works are getting wide acclaim. Sidney Chapman received an Edison Foundation Book Award in 1960 for his IGY: Year of Discovery. One of four contenders for the 1965 National Book Award in the "science, philosophy, and religion" class is Science and Ethical Values by Bentley Glass. Other recent examples are René Dubos' The Unseen World and Theodosius Dobzhansky's Heredity and the Nature of Man, both originally prepared as AAAS Holiday Science Lectures.

On 25 February the AAAS entered this field of publication with the appearance of Joseph R. Caldwell's New Roads to Yesterday—Essays in Archaeology, published by Basic Books. The volume consists of a selection of papers, reviewed and brought up to date, which originally appeared as lead articles in recent volumes of Science.

A quarter of a century ago, Doubleday Doran and Company produced an earlier series of volumes selected and prepared by the AAAS. First in the series was H. H. Newman's Multiple Human Births. The price of $2.50 now seems unbelievably low, and the old advertisements seem, in 1966, a bit florid: "In his accounts of the first meeting of twenty pairs of identical twins separated from infancy, Dr. Newman often strikes the profoundest chords of human emotion, chords sometimes gloriously joyous and sometimes tragically pathetic," or "More interesting than fiction . . . Dr. Newman's book is one of almost universal appeal."

Strange Malady—the Story of Allergy and Alcohol Explored followed in the series, but they apparently fell short of attaining "almost universal appeal," for Doubleday Doran turned down the fourth and fifth manuscripts. However, Macmillan Company brought out the sixth, Mark Graubard's Man's Food: Its Rhyne or Reason, and W. W. Norton published the final one, W. B. Cannon's The Way of an Investigator. Paper shortages and the preoccupation of scientists with wartime responsibilities then brought the series to an end.

There is a useful place for such volumes. The serious reader—young student or interested adult—appreciates the opportunity to read a book by an author who knows his field thoroughly. If the author has developed a clear and interesting style, the reader can learn much, and learn it with pleasure. Both readers and fellow scientists are indebted to the authors who write such books.

—DAEL WOLFE