LETTERS
Origin of Noctilucent Clouds: R. S. Iyengar; Word Origins: C. F. Fromme, Jr.; Sciences
- Science: W. Myers and M. Gorman; Human Experimentation: O. E. Guttentag;
Alphabetical Oblivion: W. L. Wilkins and A. R. Benson 767

EDITORIAL
Prestige 771

ARTICLES
The Chemistry of Noble Gas Compounds: H. H. Hyman 773
Lipopolysaccharide of the Gram-Negative Cell Wall: M. J. Osborn et al. 783
One Campus, Two Cultures: L. Lafore 796

NEWS AND COMMENT
Elliott Committee—Study of the Grant System: Veterans’ Administration—Insurance
for Researchers; Politics—Scientists and Engineers for Johnson 795
Report from Europe: Biological Research in Czechoslovakia: V. K. McElheny 795

BOOK REVIEWS
United States Foreign Policy: View from a Sputnik: Sir E. Ashby 803
Colored Symmetry, reviewed by M. J. Buerger; other reviews by R. Mazo,
S. Carlquist, W. A. Renze, J. Walsh, C. E. Hemminger, A. Furst 804

REPORTS
Chemiluminescence Resulting from Electrochemically Generated Species:
D. M. Hercules 806
Late Eocene Multituberculates and Other Mammals from Wyoming:
P. Robinson, C. C. Black, M. R. Dawson 809
Radiocarbon Dating of a Late Paleolithic Culture from Egypt: P. E. L. Smith 811
Purified Interferons: Physical Properties and Species Specificity: T. C. Merigan 811
Host Cell Species Specificity of Mouse and Chicken Interferons: S. Baron,
S. Barban, C. E. Buckler 814

BOARD OF DIRECTORS
ALAN T. WATERMAN,
Retiring President, Chairman

LAURENCE M. GÖULD,
President

HENRY EYRING,
President Elect

JOHN W. GARDNER
H. Bentley Glass

DAVID R. GOOD
DON N. PRICE

ASTRONOMY (D)
Walter Orr Roberts
Frank Bradshaw Wood

HISTORY AND PHILOSOPHY OF SCIENCE
John Murdoch
N. Russell Hanson

EDUCATION (Q)
Herbert S. Conn.
Frederic B. Dut

VICE PRESIDENTS AND SECTION SECRETARIES

MATHEMATICS (A)
R. W. Hamming
Wallace Givens

PHYSICS (B)
Ralph A. Sawyer
Stanley S. Ballard

CHEMISTRY (C)
Roland Revest
S. L. Meisel

ASTRONOMY (D)
Walter Orr Roberts
Frank Bradshaw Wood

HISTORY AND PHILOSOPHY OF SCIENCE
John Murdoch
N. Russell Hanson

EDUCATION (Q)
Herbert S. Conn.
Frederic B. Dut

ANTHROPOLOGY (H)
Anthony F. C. Wallace
Eleanor Leacock

PSYCHOLOGY (I)
Lorrin R. Riggs
Frank W. Finger

SOCIAL AND ECONOMIC SCIENCES (K)
Harold D. Lasswell
Ithiel de Sola Pool

PHARMACEUTICAL SCIENCES (H)
Lee H. MacDonald
Joseph P. Buckley

AGRICULTURE (O)
Edward F. Knipping
Howard B. Sprague

INDUSTRIAL SCIENCE (P)
Allen T. Bonnell

DIVISIONS

ALASKA DIVISION
Charles J. Eagan
President
George Dahlgren
Executive Secretary

PACIFIC DIVISION
Phil E. Church
President
Robert C. Miller
Secretary

SOUTHWESTERN AND ROCKY MOUNTAIN DIVISI
Edwin R. Helwig
President
Marlowe G. Anderson
Executive Secretary

SCIENCE is published weekly by the American Association for the Advancement of Science, 1515 Massachusetts Ave., N.W., Washington, D.C. 20005. Now combined with Scientific Monthly®. Second-class postage paid at Washington, D.C. Copyright © 1964 by the American Association for the Advancement of Science. Annual subscription $8.50; foreign postage, $1.50; Canadian postage, 75; single copies, 35. School year subscriptions: 9 months, $7; 10 months, $7.50. Provide 4 weeks’ notice for change of address, giving new and old address and zip numbers. Send a recent address label. SCIENCE is indexed in the Reader’s Guide to Periodical Literature.
Antibody Response to Immunization by Different Routes: S. Shulman, L. Hubler, E. Witebsky

Nicotinic Acid Biosynthesis: Control by an Enzyme That Competes with a Spontaneous Reaction: A. H. Mehler, K. Yano, E. L. May

Nucleic Acid Metabolism in L Cells Infected with a Member of the Psittacosis Group: E. M. Schechter, I. I. E. Tribby, J. W. Moulder

Macroglobulin from Human Plasma Which Forms an Enzymatically Active Compound with Trypsin: J. W. Mehl, W. O’Connell, J. DeGroot

Shell Growth and Structure of Planktonic Foraminifera: A. W. H. Bé and L. Lott

Protein as the Mitochondrial Site for Action of Uncoupling Phenols: E. C. Weinbach and J. Garbus

Uric Acid Transport System: Apparent Absence in Erythrocytes of the Dalmatian Coach Hound: A. M. Harvey and H. N. Christensen

Release of Metaraminol (Aramine) from the Heart by Sympathetic Nerve Stimulation: J. R. Crout et al.


Tumor-Promoting Activity of Extracts of Unburned Tobacco: F. G. Bock, G. E. Moore, S. K. Crouch

Virogenic Hamster Tumor Cells: Induction of Virus Synthesis: P. Gerber

Duplexity Theory of Taste: G. von Békésy

Depth Perception in Sheep: Effects of Interrupting the Mother-Neonate Bond: W. B. Lemmon and G. H. Patterson

Beta-Components in Collagen: S. Bakerman, P. Bornstein, G. R. Martin, K. A. Piez

Comments on Reports:

MEETINGS

Nonlinear Magnetics and Superconductivity: G. C. Feth; Optical Masers: J. D. Kingsley; Water Supply and Pollution Control: J. E. Fairnagan, Jr.; Forthcoming Events

COVER

Shell thickening occurs with increasingly greater depth habitat in this planktonic foraminifer, Globorotalia truncatulinoides. As thin-shelled surface forms sink slowly, a calcite crust (stippled area) is secreted up to twice the thickness of the original shell. This schematic cross section of Fig. 1B (page 823) has a maximum dimension of 690 µ and a maximum wall thickness of 50 µ. (× 280). See page 833.