LETTERS  
Research and Education: Restoring the Balance: J. E. Fernandez; L. Lykken;  
Mathematics vs. Numerical Analysis: A. A. Albert et al.; A. P. Calderon;  
R. W. Hamming; Objective Tests and the Highly Able: B. Hoffmann; Toward  
Restoration of the Whole: L. F. Trueb; Proposed Regional Medical Centers:  
C. B. Chapman; Chamberlin’s Method: A Proposed Application: N. H. Eisen . . . . 243

EDITORIAL  
Fruit from the Tree of Knowledge ................................................. 251

ARTICLES  
Primordial Rare Gases in Meteorites: R. O. Pepin and P. Signer .............. 252  
Respiratory Chains and Sites of Coupled Phosphorylation: A. F. Brodie and  
J. Adelson ................................................................. 268

NEWS AND COMMENT  
Money for Science: Utopia and Reality—  
NSF: Curriculum Reformula—AMA (II) After Medicare .......................... 278

BOOK REVIEWS  
Chromosome Organization: A. Lima-de-Faria ............................... 288  
The Dynamics of Real Gases, reviewed by R. D. Present; other reviews by M.  
McFee, W. P. Jencks, M. W. Friedlander, H. M. Patt, F. C. Howell, H. Faul,  
F. Eisenberg, Jr., J. Gilluly, P. Phillipsom ................................ 288

REPORTS  
Interacellular Communication: Renal, Urinary Bladder, Sensory, and Salivary Gland  
Cells: W. R. Loewenstein, S. J. Socolar, S. Higashino, Y. Kanno, N. Davidson . . . . 295

---

BOARO OF DIRECTORS  
LAURENCE M. GOULD  
President, Chairman  
HENRY EYRING  
President  
ALFRED S. ROMER  
President Elect  
JOHN W. GARDNER  
H. BENTLEY GLASS  
DAVID R. COUINIA S. REESE

VICE PRESIDENTS AND  
SECTION SECRETARIES  
MATHEMATICS (A)  
Bernard Friedman  
Wallace Givens  
PHYSICS (B)  
Emilio G. Segre  
Stanley S. Ballard  
CHEMISTRY (C)  
A. H. Batchelder  
Milton Orchin  
ASTRONOMY (D)  
John W. Evans  
Frank Bradshaw  
ANTHROPOLOGY (E)  
Albert C. Spaulding  
Eleanor Leacock  
SOCIAL AND ECONOMIC SCIENCES (H)  
Benton J. Underwood  
Thorsten Sellin  
ITHILDE S. POOL  
HISTORY AND PHILOSOPHY OF SCIENCE  
C. West Churchman  
Norwood Russell Hanson  
PHARMACEUTICAL SCIENCES (H)  
John E. Christian  
Joseph P. Buckley  
PACIFIC DIVISION  
James Bonner  
Howard B. Sprague

INDUSTRIAL SCIENCE (P)  
Allen T. Bonnell  
Burton V. Dean  
EDUCATION (U)  
James Rutled  
Frederic B. D

DIVISIONS  
ALASKA DIVISION  
Richard M. Hurd  
President  
George Dahlgren  
Executive Secretary  
JAMES BONNER  
President  
ROBERT C. MILLER  
Secretary  
SOUTHWESTERN AND ROCKY MOUNTAIN DIVI  
Aiden E. Meinel  
President  
Marlowe G. And  
Executive Secretary

SCIENCE is published weekly on Friday and on the fourth Tuesday in November by the American Association for the Advancement of Science, 1515 Massachusetts Ave  
for the Advancement of Science. Annual subscriptions $6.50; foreign postage, $1.50; Canadian postage, 75¢; single copies, 35¢. School year subscriptions: 9 months, $7.10  
$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 Readers'  
Guide to Periodical Literature.
Medial Neurosecretory Cells as Regulators of Glycogen and Triglyceride Synthesis: 
E. Van Handel and A. O. Lea ........................................ 298

Growth Rate of Giant Clam Tridacna gigas at Bikini Atoll as Revealed by 
Radioautography: K. Bonham ........................................ 300

Ultrasonic Scanning of Biologic Tissue by a New Technique: F. L. Thurstone, 
N. J. Kjosnes, W. M. McKinney ..................................... 302

Double Beta-Lipoprotein: A New Genetic Variant in Man: W. Seegers et al. .... 303

Repellency of Skin-Surface Lipids of Humans to Mosquitoes: W. A. Skinner et al. 305

Clostridium botulinum Type F from Marine Sediments: M. W. Eklund and F. Poysky .. 306

Deformity of Forelimb in Rats: Association with High Doses of Acetzolamide: 
W. M. Layton, Jr., and D. W. Hallesy .................................. 306

Thymine Photoproduits but Not Thymine Dimers Found in Ultraviolet-Irradiated 
Bacterial Spores: J. E. Donnellan, Jr., and R. B. Setlow .................. 308

Interferon-Like Virus-Inhibitor Induced in Human Leukocytes by 
Phytohemagglutinin: E. F. Wheelock ................................... 310

Helium-Uranium Ratios for Pleistocene and Tertiary Fossil Aragonites: 
F. P. Fanale and O. A. Schaeffer ...................................... 312


Crystallization of Clay-Adsorbed Water: D. M. Anderson and P. Hoekstra .......... 318

Sound: An Element Common to Communication of Stingless Bees and to Dances 

Evoked Brain Potential Correlates of Psychophysical Responses: Heterochromatic 
Flicker Photometry: J. B. Siegfried et al. ................................ 321

Attenuation of Aversive Properties of Peripheral Shock by Hypothalamic 
Stimulation: V. C. Cox and E. S. Valenstein ................................... 323

Comments on Reports: DDT Spray and Bird Mortality: I. N. McDaniel, 
C. F. Wurster, Jr., and D. H. Wurster ................................ 326

MEETINGS Great Lakes Research: J. L. Hough ............................... 327

Cover

Fossil gastropod shells and coral ranging in age from Pleistocene to Eocene. The 
fossils are so well preserved that the biogenic aragonite (CaCO₃) is not 
significantly recrystallized to the stable polymorph calcite. Uranium contents 
of these shells can exceed 10 parts per million. Absolute ages of such 
shells can be determined from the accumulation of helium-4, or from the 
relation of thorium-230 activity to transient equilibrium with uranium-
234. See page 312. [Brookhaven National Laboratory]