Letters
Animal Welfare Regulations: G. A. Bingham; Orientation of the Pyramids: C. B. Stephenson; C. H. Smiley; G. S. Pawley and N. Abrahamson; Delayed Publication: T. Feininger; Realistic Space Goals: B. O'Leary; Pollution Control: G. Hagevik; A. M. Freeman III and R. H. Haveman

Editorial
Faulty Engineers or Neglected Experts?: A. Etzioni

Articles
Science, Technology, and Development: A New World Outlook: G. T. Seaborg
The Coastal Challenge: D. L. Inman and B. M. Brush
Chemostimulatory Protein: A New Type of Taste Stimulus: R. H. Cagan

News and Comment
R. J. Herrnstein: The Perils of Expounding Meritocracy
Nixon-Brezhnev Summit: A New Clutch of Compacts
Scientists Probe Russian Viruses
Latin America: Is Imported Technology Too Expensive?

Research News
Slow Viruses (II): The Unconventional Agents

Book Reviews
Black Monday's Children, reviewed by T. Duster; Scientist Extraordinary, S. J. Gould; Books Received

Reports
Oil Spills: Measurements of Their Distributions and Volumes by Multifrequency Microwave Radiometry: J. P. Hollinger and R. A. Mennella

Board of Directors
Glen T. Seaborg
Leonard M. Rieser
Roger Revelle
Richard H. Bolt
Lewis N. Branscomb
Barry Commoner
Emilio Q. Baddar

Chairmen and Secretaries of AAAS Sections
Mathematics (A)
Liiman Bers
F. A. Ficken

Psychology (D)
Carl P. Duncan
William D. Garvey

Industrial Science (P)
Jacob E. Goldman
Jordan D. Lewis

Social and Economic Sciences (K)
Robert K. Merton
Harvey Sapolsky

Chemistry (C)
Thomas E. Taylor
Leo Schubert

Physics (B)
Edwin M. McMillan
Roll M. Sinclair

Astronomy (D)
Frank D. Drake
Arla U. Landolt

History and Philosophy of Science
Ernest Nagel
Dudley Shapere

Pharmaceutical Sciences
William Heller
John Autian

Alaska Division
Gunter E. Weller
President
Iris Duncan
Executive Secretary

Pacific Division
John D. Issacs
President
Robert T. Orr
Secretary-Treasurer

Southwestern and Rocky Mountain Division
Gordon L. Bender
President
Max P. Dunford
Executive Secretary-Treasurer
Oil and Ice in the Arctic Ocean: Possible Large-Scale Interactions: W. J. Campbell and S. Martin ........................................ 56

Crystallization of NADP-Specific Isocitrate Dehydrogenase: W. F. Burke, J. R. Swafford, H. C. Reeves ................................. 59

Common Mechanism for Repellents and Attractants in Bacterial Chemotaxis: N. Tsang, R. Macnab, D. E. Koshland, Jr. ..................... 60

Induction and Ecological Significance of Gigantism in the Rotifer Asplanchna sieboldi: J. J. Gilbert ........................................... 63

Fire and the Nitrogen Cycle in California Chaparral: N. L. Christensen .......................................................... 66

Triple-Stranded Polynucleotide Helix Containing Only Purine Bases: S. Arnott and P. J. Bond .................................................. 68

α1-Antitrypsin Deficiency: A Variant with No Detectable α1-Antitrypsin: R. C. Talamo et al. .................................................... 70

Nonhistone Chromosomal Protein Synthesis: Utilization of Preexisting and Newly Transcribed Messenger RNA's: G. S. Stein and D. E. Matthews .......................................................... 71

Sand Dollar: A Weight Belt for the Juvenile: F. Chia .......................................................... 73

Capacitor Electrode Stimulates Nerve or Muscle without Oxidation-Reduction Reactions: D. L. Guyton and F. T. Hambrecht .................................................. 74

Regulation of Muscle Acetylcholine Sensitivity by Muscle Activity in Cell Culture: S. A. Cohen and G. D. Fischbach ................................................ 76

Mobility of Potassium Ion in Frog Muscle Cells, both Living and Dead: G. N. Ling and M. M. Ochsner ................................................ 78


Memory Disruption by Electrical Stimulation of Substantia Nigra, Pars Compacta: A. Rouxtenberg and N. Holzman ........................................... 83

Technical Comments: Hibernation: Effects on Memory or Performance?: T. M. Alloway; M. L. Riedesel and M. C. McNamara ........................................... 86

Sand dune south of Pismo Beach, California. See page 20. [U.S. Navy]
Science 181 (4094), 7-87.

Use of this article is subject to the Terms of Service.