LETTERS
Cryptography, NSF, and NSA: D. N. Langenberg; R. Mandelbaum; Participatory Management: E. M. Glaser

EDITORIAL
Science and Engineering Education.

ARTICLES
The Next step in Fusion: What It Is and How It Is Being Taken: J. F. Clarke
Silent Nucleotide Substitutions and the Molecular Evolutionary Clock: T. H. Jukes
Prostaglandins, Arachidonic Acid, and Inflammation: F. A. Kuehl, Jr., and R. W. Egan
Science and the University: A. B. Giamatti

NEWS AND COMMENT
The Reagan Years: Environmentalists Tremble.
Oil Companies Suppress German Synfuels Formula, Says Hollywood
The Reagan Years: Regrouping on Education.
Briefing: OSHA Backs Away from Strict Lab Rules; Classified Research; Passive Solar Homes Endorsed; Buettner-Janusch Is Sentenced
Police Science and Psychics.

RESEARCH NEWS
Government/Industry Dispute Brain Tumor Risk.
Interferon Congress Highlights
Where Is the Hepatitis C Virus?.

ANNUAL MEETING
Tours; Reservation Form for Tours.

BOOK REVIEWS
Bastardy and Its Comparative History, reviewed by M. A. Vinovskis; Behind Every Successful Man, A. Levine; Electron-Molecule Scattering, J. N. Bardsley; Objects of High Redshift, D. E. Osterbrock; Books Received

REPORTS
Sequence of Pumiceous Tephra Layers and the Late Quaternary Environmental Record Near Mount St. Helens: C. J. Heusser and L. E. Heusser
Calcite-Impregnated Defluidization Structures in Littoral Sands of Mono Lake, California: P. Cloud and K. R. Lajoie 1009


Io: Ground-Based Observations of Hot Spots: W. M. Sinton et al. 1015

Internal Winds in Water Lilies: An Adaptation for Life in Anaerobic Sediments: J. W. H. Dacey 1017

Opposite Polarity of Filipin-Induced Deformations in the Membrane of Condensing Vacuoles and Zymogen Granules: L. Orci et al. 1019

Stimulation of DNA and Collagen Synthesis by Autologous Growth Factor in Cultured Fetal Rat Calvaria: E. Canalis, W. A. Peck, L. G. Raisz 1021

Retinal Tumor Induced in the Baboon by Human Adenovirus 12: N. Mukai et al. 1023

Isolation of O1 Serovars of Vibrio cholerae from Water by Serologically Specific Method: K. W. Hranitzky et al. 1025

Latency of Herpes Simplex Virus in Absence of Neutralizing Antibody: Model for Reactivation: T. Sekizawa et al. 1026

Insulin Receptors in Hepatocytes: Postreceptor Events Mediate Down Regulation: J. F. Caro and J. M. Amatruda 1029

Anticonvulsants Specific for Petit Mal Antagonize Epileptogenic Effect of Leucine Enkephalin: O. C. Snead III and L. J. Bearden 1031

Perception of Numbers by Human Infants: P. Starkey and R. G. Cooper, Jr. 1033

Associative Learning in Premature Hydranencephalic and Normal Twins: D. S. Tuber et al. 1035

*Limulus* Brain Modulates the Structure and Function of the Lateral Eyes: R. B. Barlow, Jr., S. C. Chamberlain, J. Z. Levinson 1037

Classical Conditioning: Induction of Luteinizing Hormone and Testosterone Secretion in Anticipation of Sexual Activity: J. M. Graham and C. Desjardins 1039

Optimal Behavior: Can Foragers Balance Two Conflicting Demands?: A. Sih 1041

Technical Comments: Effect of Urban Sources on Acid Precipitation in the Western United States: T. J. Kelly and D. H. Stedman; W. M. Lewis, Jr., and M. C. Grant 1043

**PRODUCTS AND MATERIALS** Incubator; Video Graphic Copier; Peristaltic Pump; Magnetic Tape System; Fluoroptic Thermometry; Electrolyte Analyzers; Spectrometer; Thin-Layer Plates; Literature 1044

**COVER** Towers of porous calcareous tufa, the largest 4.3 meters in height, rise above basal sand columns to about 6 meters above present south shore of Mono Lake, California. They were precipitated where calcium-rich artesian waters entered a once fuller alkaline lake, now lowered by evaporation and diversion of recharge waters to Los Angeles. See page 1009: [Preston Cloud, University of California, Santa Barbara]