LETTERS

EDITORIAL
Support of Graduate Education: P. E. Gray

ARTICLES
Nuclear Reactor Safety Research Since Three Mile Island: F. R. Mynatt
Novel Proteinaceous Infectious Particles Cause Scrapie: S. B. Prusiner
Dominance in Fishes: The Relation Between Environment and Abundance: B. E. Skad

NEWS AND COMMENT
Reagan’s Plan for MX Attracts Fire
Trucks, Trenches, Trains, and Blimps
"Unequivocal" Evidence of Soviet Toxin Use
Pajaro Dunes: The Search for Consensus
Why the Doors Stayed Closed

BRIEFING: Spy Chief Warns Labs of Future Soviet Threat; University Researchers Lobby for Space Science; New England Education's Competitive Edge Dulled

A Requiem for Isabelle

RESEARCH NEWS
The 1982 Pittsburgh Conference: A Special Instrumentation Report
New Applications, Accessories for HPLC

TLC: The Overlooked Alternative

Weight Limit for Mass Spectroscopy Raised

Instrument Highlights: Sample Preparation by a One-Armed Robot; Real-Time Identification of Unknown Mass Spectra; New Magnet Speeds Mass Spectrometers; "Time-of-Flight" Optical Spectroscopy

If Summary Papers Incline to Prosaic Then Try Dactylic or Even Trochaic

BOOK REVIEWS
Social History of Nineteenth Century Mathematics, reviewed by J. V. Grabiner; Saving the Prairies, M. W. Rossiter; The Theory of Atomic Structure and Spectra, A. F. Starace; The Foundations of Ethology, G. M. Burghardt,

BOARD OF DIRECTORS
D. ALLAN BROMLEY, Retiring President, Chairman
E. MARGARET BURBIDGE, President
ANNA J. HARRISON, President-Elect
LAWRENCE BOGORAD, EDWARD E. DAVID, JR.
NANCIE L. GONZALEZ, DAVID A. HAMBURG

MATHEMATICS (A)
Felix E. Browder
Lynn Arthur Steen

PHYSICS (B)
Donald N. Langerberg
Rolf M. Sinclair

CHEMISTRY (C)
Charles G. Overberger
William L. Joly

ASTRONOMY (D)
Irwin I. Shapiro
Donal D. Wentzel

SOCIAL, ECONOMIC, AND POLITICAL SCIENCES (E)
Eleanor J. Gibson
Bert P. Green

HISTORY AND PHILOSOPHY OF SCIENCE (F)
Erwin N. Herbst

PHARMACEUTICAL SCIENCES (G)
Louis A. Luzzi

INFORMATION, COMPUTING, AND COMMUNICATION (H)
Marlyn C. Breken

EDUCATION (I)
Alaine Ed LSderber
Roger G. Ostad

DENTISTRY (J)
Paul Goldhaber
Harold M. Fullmer

ROYAL, J. M.

Nuclear Science (K)
Robert W. Durig

DIVISIONS
ALASKA DIVISION

PACIFIC DIVISION

SOUTHWESTERN AND ROCKY MOUNTAIN DIVISION

ALASKA DIVISION

PACIFIC DIVISION

SOUTHWESTERN AND ROCKY MOUNTAIN DIVISION

Vera Alexander
T. Neil Davis
Robert J. Bowman
Max P. Dunford

President
Executive Secretary
President
Executive Director
President

M. Michelle Ballo
Executive Officer

This content is of the type "text/plain".
The Natural History of the Gorilla and Gorilla Behavior, J. S. Lockard; Books Received ................................................................. 168

REPORTS

Tiering in Suspension-Feeding Communities on Soft Substrastra Throughout the Phanerozoic: W. I. Ausich and D. J. Bottjer ........................................... 173

Chemical Changes of Lakes Within the Mount St. Helens Blast Zone: R. C. Wissmar et al. ................................................................. 175

Biological Responses of Lakes in the Mount St. Helens Blast Zone: R. C. Wissmar et al. ................................................................. 178

Venus: Chemical Weathering of Igneous Rocks and Buffering of Atmospheric Composition: S. Nozette and J. S. Lewis ........................................... 181

Locomotion in Moles (Insectivora, Procotopodidae) from the Middle Tertiary of North America: A. D. Barnosky ................................................................. 183

Area-Perimeter Relation for Rain and Cloud Areas: S. Lovejoy ................................................................. 185

Maceral, Total Organic Carbon, and Palynological Analyses of Ross Ice Shelf Project Site J9 Cores: J. H. Wrenn and S. W. Beckman .................................................... 187

Loco Intoxication: Indolizidine Alkaloids of Spotted Locoweed (Astragalus lentiginosus): R. J. Molyneux and L. F. James ................................................................. 190

Pregnancy Suppression by Active Immunization Against Gestation-Specific Riboflavin Carrier Protein: C. V. R. Murty and P. R. Adiga ................................................................. 191

Abnormal Glutamate Metabolism in an Adult-Onset Degenerative Neurological Disorder: A. Plaitakis, S. Berl, M. D. Yahr ................................................................. 193

Bronchoconstrictor Effects of Leukotriene C in Humans: J. W. Weiss et al. ................................................................. 196

Oculoparalytic Illusion: Visual-Field Dependent Spatial Mislocalizations by Humans Partially Paralyzed with Curare: L. Matin et al. ................................................................. 198

Plant Phenols Utilized as Nutrients by a Phytophagous Insect: E. A. Bernays and S. Woodhead ................................................................. 201

Modulation of Spasticity: Prolonged Suppression of a Spinal Reflex by Electrical Stimulation: J. B. Walker ................................................................. 203


PRODUCTS AND MATERIALS

Handheld Microscope; Magnetic Microcentrifuge; Spectrophotometer; Sensors for Color Computers; Computer Program for Analytical Chemistry; Electrochemical Detector for HPLC; Computer Graphics Software; Literature ................................................................. 206

COVER

Spirit Lake, 8 kilometers northeast of Mount St. Helens, Washington, following the eruption of 18 May 1980. Massive avalanches of debris and pyroclastic flows destroyed forests and soils. The deposition of such debris into the lake caused the surface levels to rise about 40 meters and the area to increase 30 percent. Dissolved minerals and pyrolized and steam-extracted terrestrial organics stimulated microbial growth in the lake. See page 175. [Robert C. Wissmar, Fisheries Research Institute, University of Washington, Seattle 98195]