LETTERS

Love Canal and Legal Precedent: D. A. Bronstein; Geological Research: P. M. Kier; Digital Readouts on Television Pictures: D. J. Aneshansley and T. Eisner

EDITORIAL

Science and Engineering: L. Young

ARTICLES

Origin and Mechanism of Large-Scale Climatic Oscillations: V. Ya. Sergin
Early Two-Dimensional Reconstruction and Recent Topics Stemming from It: A. M. Cormack
The Cayo Santiago Primate Colony: W. F. Windle

NEWS AND COMMENT

University and Drug Firm Battle Over Billion-Dollar Gene
UCSD Gene Splicing Incident Ends Unresolved
Navy Considers Scuttling Old Nuclear Subs
Scientists, Congress in NIH Battle
NSF Under Challenge from Congress, Engineers

Briefing: FDA Caffeine Decision Too Early, Some Say; Sawhill Is Named Synfuels Chief

Death at Sverdlovsk: A Critical Diagnosis

RESEARCH NEWS

Testing for Primes Gets Easier
Plug Pulled on Chemistry Computer Center.
An “NRCC” for Industrial Chemists?

BOOK REVIEWS

Polyplody, reviewed by L. D. Gottlieb; Plant Membrane Transport, D. H. Jennings; The Ecology of Vision, S. S. Easter, Jr.; Progress in Social Psychology, E. Borgida; Books Received

REPORTS

Carbynes: Carriers of Primordial Noble Gases in Meteorites: A. G. Whittaker et al.
Carbynes in Meteorites: Detection, Low-Temperature Origin, and Implications for Interstellar Molecules: R. Hayatsu et al. .................................................. 1515
Radioactive Waste Storage Materials: Their α-Recoil Aging: J. C. Dran, M. Maurette, J. C. Petit .................................................. 1518
A New Irradiation Effect and Its Implications for the Disposal of High-Level Radioactive Waste: E. H. Hirsch ........................................... 1520
Long-Range Atmospheric Transport of Soil Dust from Asia to the Tropical North Pacific: Temporal Variability: R. A. Duce et al. ............... 1522
A Comparison of Thermal Observations of Mount St. Helens Before and During the First Week of the Initial 1980 Eruption: W. St. Lawrence et al. .................................................. 1526
Oxygen Consumption in Pelagic Marine Sediments: J. W. Murray and V. Grundmanis .................................................. 1527
Surface Charge Heterogeneity in Amphibole Cleavage Fragments and Asbestos Fibers: J. E. Schiller, S. L. Payne, S. E. Khalafalla .................................................. 1530
Nucleosome Cores Have Two Specific Binding Sites for Nonhistone Chromosomal Proteins HMG 14 and HMG 17: J. K. W. Mardian et al. .................................................. 1534
Tracing Food Webs with Stable Hydrogen Isotopes: M. F. Estep and H. Dabrowski .................................................. 1537
Cell Lineage Analysis by Intracellular Injection of Fluorescent Tracers: D. A. Weisblat et al. .................................................. 1538
Naegleria fowleri: Trimethoprim Sensitivity: L. Červa .................................................. 1541
Temporal Precision in Circadian Systems: A Reliable Neuronal Clock from Unreliable Components?: J. T. Enright .................................................. 1542
Mood and Behavioral Effects of Physostigmine on Humans Are Accompanied by Elevations in Plasma β-Endorphin and Cortisol: S. C. Risch et al. .................................................. 1545
Anxiety and Muscle Tension as Consequences of Caffeine Withdrawal: B. C. White et al. .................................................. 1547
Juvenile Hormone Induction of Biting Behavior in Culex Mosquitoes: R. W. Meola and R. S. Petralia .................................................. 1548
Have Tar and Nicotine Yields of Cigarettes Changed?: L. T. Kozlowski et al. .................................................. 1550
Signals for Food: Reinforcers or Informants?: J. J. Cherfas .................................................. 1552

PRODUCTS AND MATERIALS

Bioluminescence Kits; Image Analyzer; Temperature Controller; Isolelectric Focusing Calibration Kits; Spark Chamber Detector; Amperometric Chromatography Detector; Microsyringe; Literature .................................................. 1556

COVER

Leech embryo showing part of the future nervous system as a band of small, red-fluorescing cells bordering the ventral midline. An N teloblast was injected with rhodamine-labeled docedapeptide at stage 6a. After subsequent development to mid-stage 8 the embryo was fixed and stained with Hoechst 33258. Nuclei appear as blue-fluorescing dots; only the injected cell (center) and its clonal descendants fluoresce red (about × 610). See page 1538. [Saul J. Zackson, Molecular Biology, University of California, Berkeley]