LETTERS
University Research and DOD: Colleen J. G. Clark and John R. Clark; Views on Evolution, Theory, and Science: T. H. Jukes; R. Root-Bernstein; Applied Social Science: L. Chalip

EDITORIAL
Charting a Course for Science

ARTICLES
Radioactive Waste Disposal in Thick Unsaturated Zones: I. J. Winograd
Chemicals from Biomass: Petrochemical Substitution Options: E. S. Lipinsky
Photovoltaics: J. L. Smith

NEWS AND COMMENT
Renewable Power Sparks Financial Interest
PURPA Forces Utilities to Buy Power
OSHA Shifts Direction on Health Standards
Briefing: UCLA Reactor License Challenged in Hearings; Dallas Peck to Head USGS; Studies Support Bendictin Safety Claim; Air Pollution Rule Attacked
Galleon Yields Gold, Silver, and Archeology

RESEARCH NEWS
International Competition Drives DESY
DORIS Gets a Facelift
Bones of Mammals’ Ancestors Fleshed Out

BOOK REVIEWS
Animal Play Behavior, reviewed by J. Byers; X-Ray Astronomy, B. Margon; Florida Archaeology, J. P. Brain; John von Neumann and Norbert Wiener, R. E. Rider; Books Received

REPORTS
Central Object of the 30 Doradus Nebula, a Supermassive Star: J. P. Cassinelli, J. S. Mathis, B. D. Savage
Eastern Indian 3800-Million-Year-Old Crust and Early Mantle Differentiation: A. R. Basu et al. 1502
Characterization of Plutonium in Maxey Flats Radioactive Trench Leachates: J. M. Cleveland and T. F. Rees 1506
Organic Fluorine in Human Serum: Natural Versus Industrial Sources: J. Belisle 1509
Niacin Reduces Paraquat Toxicity in Rats: O. R. Brown, M. Heitkamp, C.-S. Song 1510
Lophotoxin: A Novel Neuromuscular Toxin from Pacific Sea Whips of the Genus Lophogorgia: W. Fenical et al. 1512
Metastatic Potential Is Positively Correlated with Cell Surface Sialylation of Cultured Murine Tumor Cell Lines: G. Yogeeswaran and P. L. Salk 1514
Immunization of Baboons with Schistosoma mansoni Cercariae Attenuated by Gamma Irradiation: M. Stek, Jr., et al. 1518
Motility Assay of Human Sperm by Photon Correlation Spectroscopy: J. Frost and H. Z. Cummins 1520
Remodeling of Multiterminal Innervation by Nerve Terminal Sprouting in an Identifiable Lobster Motoneuron: C. K. Govind and J. Pearce 1522
Peptidal Sex Hormones Inducing Conjugation Tube Formation inCompatible Mating-Type Cells of Tremella mesenterica: Y. Sakagami et al. 1525
Physical Dependence on Morphine Fails to Develop During the Hibernating State: A. L. Beckman et al. 1527
Induced Hearing Deficit Generates Experimental Paranoia: P. G. Zimbardo, S. M. Andersen, L. G. Kabat 1529
Exposure of Rats to Alcohol in utero Alters Drug Sensitivity in Adulthood: E. L. Abel, R. Bush, B. A. Dintchecff 1531
Morphine-Induced Attenuation of Morphine Tolerance: S. Siegel, R. E. Hinson, M. D. Krank 1533

Cover
View westward across Yucca Flat, Nevada Test Site, Nye County, Nevada. Sedan Crater, formed in 1962 by a 100-kiloton nuclear explosive, has a diameter of 370 meters, a depth of 98 meters, and a volume of 5 million cubic meters. Yucca fault scarp extends horizontally across center of photograph. See page 1457. [Photograph courtesy of U.S. Department of Energy, Las Vegas, Nevada]
Science 212 (4502), 1446-1536.

http://science.sciencemag.org/content/212/4502.citation

http://www.sciencemag.org/help/reprints-and-permissions