LETTERS

EDITORIAL
Troublesome Portents for Scientific Journals

ARTICLES
Urban Aerosol Toxicity: The Influence of Particle Size: D. F. S. Natusch and J. R. Wallace
Directed Chromosome Loss by Laser Microirradiation: M. W. Berns
Department of Defense R & D in the University: S. A. Glantz and N. V. Albers

NEWS AND COMMENT
Detente: Travel Curbs Hinder U.S.–U.S.S.R. Exchanges
Patients’ Rights: Harvard Is Site of Bitter Battle over X and Y Chromosomes
Congress: A Seismic Shift toward the Young and Liberal
Energy “Blueprint” Sees Little R & D Impact before 1985

RESEARCH NEWS
Exploring the Solar System (I): An Emerging New Perspective
Early Ideas about the Solar System and the Planets
The 1974 Nobel Prize for Chemistry: W. H. Stockmayer

ANNUAL MEETING
Science and the Problematicque: A. Herschman

BOOK REVIEWS
Quaternary Plant Ecology, reviewed by H. E. Wright, Jr.; The Jupiter Effect, W. M. Kaula; Biological Bases of Human Social Behaviour, J. Alcock; The Processing of Information and Structure, R. Hyman; Form and Function of Phospholipids, W. J. Lennarz; Books Received
Trace Gas Analysis of Power Plant Plumes Via Aircraft Measurement: O₃, NOₓ, and SO₂ Chemistry: D. D. Davis, G. Smith, G. Klauber .......................... 733

Counterclockwise Circulation in the Pacific Subantarctic Sector of the Southern Ocean: R. F. McGinnis .................................................. 736

Gamma-Aminobutyric Acid Effects on Pituitary Gonadotropin Secretion: J. G. Ondo ................................................................. 738

Normal Skin Test Responses in Chronic Marijuana Users: M. J. Silverstein and P. J. Lessin ................................................................. 740

5-Methyltetrahydrofolate Acid as a Mediator in the Formation of Pyridoindoles: L. R. Mandel et al. ..................................................... 741

Reproductive Patterns in the Deep-Sea Benthos: F. J. Rokop .......................................................... 743

Amino Acid Content of Rabbit Acrosomal Proteinase and Its Similarity to Human Trypsin: R. Stambaugh and M. Smith .......................... 745

Heat Production and Temperature Regulation in Eastern Skunk Cabbage: R. M. Knutson ................................................................. 746

Humoral Immunosuppressive Substance in Mice Bearing Plasmacytomas: P. Tanapatchayapong and S. Zolla ........................................... 748

Single Cell Layered Heart: Electromechanical Properties of the Heart of Bolinia ovifera: J. Weiss and M. Morad .................................. 750

Visual Detection of Line Segments: An Object-Superiority Effect: N. Weisstein and C. S. Harris ............................................................... 752


Isoelectric Point Determination; Electrophoresis Cells; Scanning Electron Microscope; Small Volume Derivative Reaction Vessels; Wave and Tide Recorder; Leukocyte Migration Plate; Literature ........................................ 758

Aerial view of the 1.1-milliwatt electric Morgantown Generating Station, on the Potomac River 60 kilometers south of downtown Washington, D.C. Isolated plumes from the power plant are a significant source of atmospheric ozone far downwind of the power plant. See page 733. [Gary M. Klauber, University of Maryland, College Park]