LETTERS

EDITORIAL
What Are Professors For?

ARTICLES
Toxicology and the Biomedical Sciences: B. B. Brodie, G. J. Cosmides, D. P. Rall
Molecular Transitions and Chemical Reaction Rates: B. Widom
Megaloscience: J. B. Adams
Nervous System Research with Computers: G. D. McCann

NEWS AND COMMENT
Report from Europe: World Health Organization Shelves Research Center Plan:
V. K. McElheny

BOOK REVIEWS
Modifying Man: Muller’s Eugenics and Lederberg’s Euphenics: J. F. Crow
Differential Equations and Their Applications, reviewed by D. G. Bourgin;

REPORTS
lo-Related Radio Emission from Jupiter: G. A. Dulk
Phase Relations in the System Na₂Si₂O₅–SiO₂: J. Williamson and F. P. Glasser
Specificity of Macroglobulin Antibody Synthesized by the Normal Human Fetus: W. V. Epstein
Sector Structure of the Quiet Interplanetary Magnetic Field: N. F. Ness and J. M. Wilcox ........................................ 1592
Explosion of Burning Zirconium Droplets Caused by Nitrogen: L. S. Nelson ..................................................... 1594
Activation Energy of Direct-Current Electrical Conductivity of Ice with HF and NH₃ Added: S. Y. Chai and P. O. Vogelhut 1595
Ocean-Bottom Topography: The Divide between the Sohm and Hatteras Abyssal Plains: R. M. Pratt ......................... 1598
Air Pollution Affects Pattern of Photosynthesis in Parmelia sulcata, a Corticolous Lichen: L. Pearson and E. Skye .................. 1600
Chromosomes of American Marsupials: J. D. Biggers et al. .................................................................................. 1602
Sex-Linkage of Glucose-6-Phosphate Dehydrogenase in the Horse and Donkey: J. M. Trujillo et al. .......................... 1603
Lung Surfactants, Counterions, and Hysteresis: E. M. Scarpelli, K. H. Gabbay, J. A. Kochen ........................................ 1607
Transport of Sodium in Plant Tissue: D. W. Rains and E. Epstein ................................................................. 1611
Transepidermal Potential Difference: Development in Anuran Larvae: R. E. Taylor, Jr., and S. B. Barker ....................... 1612
Chilocorus similis Rossi: Disinterment and Case History: S. G. Smith ............................................................ 1614
Comments on Reports: Particle Sorting and Stone Migration by Freezing and Thawing: D. R. Inglis; A. E. Corte 1616

MEETINGS

Respiratory Cilia: K. H. Kilburn and J. V. Salzano; Forthcoming Events ...................................................... 1618

COVER

Figures drawn by a digital computer programmed to simulate the motion of a damped, double pendulum. A variety of figures can be quickly drawn by varying such input parameters as periods, phase angle, and amplitudes. See page 1541.