LETTERS


EDITORIAL

Goals of Science Education: A. J. Harrison

ARTICLES

Electron Spectroscopy for Atoms, Molecules, and Condensed Matter: K. Siegbahn

Cardiovascular Research: Decades of Progress, a Decade of Promise: R. I. Levy and J. Moskowitz

R & D in the United States: Its Strengths and Challenges: I. M. Ross

NEWS AND COMMENT

Small Firms to Get Guaranteed R & D Support

Academy Boosts Social Sciences

Briefing: Supreme Court to Review California Nuclear Ban; Hopes Are Flying High for U.N. Space Conference; Budget Resolution Treats R & D Relatively Well; NIH Sees No Need for DNA Weapons Ban

R & D Colloquium Spotlights Budget “Crisis”

Hawaiian Milk Contamination Creates Alarm

Tolerance of Zero Not a Zero Tolerance

RESEARCH NEWS

Autoimmunity in Left-Handers

Astronomy Briefing: Superclouds; Stellar Hurricanes; Neptune: A Ring at Last?
BOOK REVIEWS

E. B. Christoffel, reviewed by J. Rovnyak; Rigorous Atomic and Molecular Physics, B. Simon; Prehistory of Japan, F. Ikawa-Smith; Organic and Bioorganic Chemistry of Carbon Dioxide, K. M. Nicholas; Books Received

REPORTS

Oak Leaf Quality Declines in Response to Defoliation by Gypsy Moth Larvae: J. C. Schultz and I. T. Baldwin


Localization of a Circadian Pacemaker in the Eye of a Mollusc, Bulla: G. D. Block and S. F. Wallace

Prevention of Allograft Rejection by Immunization with Donor Blood Depleted of Ia-Bearing Cells: D. Faustman et al.


Neonatal Treatment with Antiserum to Prolactin Lowers Blood Pressure in Rats: D. E. Mills, M. T. Buckman, G. T. Peake

Morphologic Effect of Dimethyl Sulfoxide on the Blood-Brain Barrier: R. D. Broadwell, M. Salcman, R. S. Kaplan

Boradeption: A New Procedure for Transferring Water-Insoluble Agents Across Cell Membranes: P. M. Gallop, M. A. Paz, E. Henson

Controlled Drinking by Alcoholics? New Findings and a Reevaluation of a Major Affirmative Study: M. L. Pendery, I. M. Malzman, L. J. West

Hair-Cell Innervation by Spiral Ganglion Cells in Adult Cats: N. Y. S. Kiang et al.

Flight Interneurons in the Locust and the Origin of Insect Wings: R. M. Robertson, K. G. Pearson, H. Reichert

COVER

Packy, a 19-year-old Asian elephant (Elephas maximus) at the Washington Park Zoo, Portland, Oregon, is one of two mature bulls utilized in a unique bioassay procedure coupled to the chemical fractionation of female sex pheromones present in estrous urine and urogenital sinus secretions. This bioassay involves semiquantitative Flehmen-like responses to extracted components. See page 159. [Lois E. Rasmussen, Oregon Graduate Center for Study and Research, Beaverton, Oregon 97006]