LETTERS


EDITORIAL

United States-Soviet Scientific Exchanges: V. F. Weisskopf and R. R. Wilson

ARTICLES

Solar Wind Control of the Earth's Electric Field: R. Markson and M. Muir

Biopolyester Membranes of Plants: Cutin and Suberin: P. E. Kolattukudy


NEWS AND COMMENT

Congress Challenges MX Basing Plan

Roll with Coal

Gus Speth, Planning the "Conserver Society"

Bern Dibner: Science Bibliophile

Briefing: NRC Skirts Safety Issues in Export Approval; CIA Charter Proposals Die in Congress; Proposals to Study Veterans Criticized

Nerve Gas in Afghanistan?

Experts Endorse Biomass Energy

RESEARCH NEWS

New Ways to Make Microcircuits Smaller

BOOK REVIEWS

Managerial Hierarchies, reviewed by L. Galambos; The Triumph of Evolution, S. Coben; La Matière Mal Condensée, R. G. Palmer; Relativistic Particle Physics, C. Quigg; Books Received

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REPORTS

Acid Precipitation and Sulfate Deposition in Florida: P. L. Brezonik, E. S. Edgerton, C. D. Hendry


Aryl Hydrocarbon Hydroxylase Is Inhibited by Antibody to Rat Liver Cytochrome P-450: K. Robie-Suh et al.

- Insertion of a New Gene of Viral Origin into Bone Marrow Cells of Mice: K. E. Mercola et al.

Synthesis of Human Plasminogen by the Liver: D. Raum et al.

Progesterone Administration in vivo Stimulates Release of Luteinizing Hormone-Releasing Hormone in vitro: V. Ramirez, D. Stedman, D. Lin

Red Cochineal Dye (Carminic Acid): Its Role in Nature: T. Eisner et al.

Regional Assignment of Genes for Human Esterase D and Retinoblastoma to Chromosome Band 13q14: R. S. Sparkes et al.

Pro-Adrenocorticotropic/Endorphin-Derived Peptides: Coordinate Action on Adrenal Steroidogenesis: R. C. Pederson, A. C. Brownie, N. Ling


Simian Virus 40 Crystals: E. E. Lattman

Interaction of Laminae of the Cingulate Cortex with the Anteroventral Thalamus During Behavioral Learning: M. Gabriel, K. Foster, E. Orona

Interaction Between Posture, Color, and the Radiative Heat Load in Birds: S. Lustick, M. Adam, A. Hinko

Picrotoxin Convulsions Involve Synaptic and Nonsynaptic Mechanisms on Cultured Mouse Spinal Neurons: J. L. Barker and J. F. MacDonald

Choline Acetyltransferase-Containing Neurons in Rodent Brain Demonstrated by Immunohistochemistry: H. Kimura et al.


PRODUCTS AND MATERIALS

Vertical Slab Electrophoresis; Stirrer; Thermogravimetric Analysis; Universal Counter; Ion Gun; Spectrometers; Microhardness Tester; Literature

COVER

Turret in thunderstorm top (taken from a U-2 airplane at 14.6 kilometers over Kansas). Such turrets can penetrate or 2 kilometers above the flat cloud tops (anvils) which form near the tropopause. The electric currents between thunderclouds and the ionosphere which maintain the earth's fair-weather electric field may flow predominantly over such turrets. See page 979. [D. Fitzgerald, Air Force Geophysics Laboratory, Hanscom Field, Bedford, Massachusetts]