LETTERS


EDITORIAL

New Directions for AAAS .......................................................... 539

ARTICLES

Star Dust: E. P. Ney. ................................................................. 541
Mathematics Underlying the Rate-Dependency Hypothesis: F. A. Gonzalez and L. D. Byrd .................................................. 546
The Economic Issues of the Fast Breeder Reactor Program: B. G. Chow .......................................................... 551

NEWS AND COMMENT

Kennedy, GAO Criticize NSF; Grant Renewal Is Rejected .............................. 556
Gene-Splicing: At Grass-Roots Level a Hundred Flowers Bloom .................. 558
Carter Appointments: Fresh Moves on Sea Law, Arms Control .................. 560
Congress: House Redistributes Jurisdiction over Energy ............................ 562

RESEARCH NEWS

Alcohol: A Brazilian Answer to the Energy Crisis ...................................... 564
Energy: Brazil Seeks a Strategy Among Many Options ............................... 566

BOOK REVIEWS

The Patronage of Science in the Nineteenth Century, reviewed by R. Kargon; Building Scientific Institutions in India: Saha and Bhabha, A. M. Moyal; Animal Communication by Pheromones, E. O. Wilson; Neuronal Recognition, M. Dennis and R. B. Kelly; Books Received and Book Order Service .............................. 568
REPORTS

Release of Particles Containing Metals from Vegetation into the Atmosphere: W. Beauford, J. Barber, A. R. Barringer ........................................ 571

Excitation of the Venus Night Airglow: G. M. Lawrence, C. A. Barth, V. Argabright .......................................... 573

Phenolic Plant Compounds Functioning as Reproductive Inhibitors in Microtus montanus: P. J. Berger et al. .......................................................... 575

Concomitant Elevations in Serum Sialyltransferase Activity and Sialic Acid Content in Rats with Metastasizing Mammary Tumors: R. J. Bernacki and U. Kim .......................................................... 577

Visual Detection of Cryptic Prey by Blue Jays (Cyanocitta cristata): A. T. Pietrewicz and A. C. Kamil .......................................................... 580

Lithium: Effects on Subjective Functioning and Morphine-Induced Euphoria: D. R. Jasinski et al. .......................................................... 582


Circadian Organization in Lizards: The Role of the Pineal Organ: H. Underwood .......................................................... 587

Intravenous Self-Feeding: Long-Term Regulation of Energy Balance in Rats: S. Nicolaides and N. Rowland .......................................................... 589

Evolution in a Time-Varying Environment: R. A. Armstrong and M. E. Gilpin .......................................................... 591


PRODUCTS AND MATERIALS

Image Analysis Cursor; Explosion-Proof Freezers and Refrigerators; Circulator Baths; Safety Enclosure; Homogenizer; Hydrogen Purifiers; Water Bath Shaker; Literature .......................................................... 600

COVER

"Horsehead nebula" near ζ Orionis is a dark obscuring cloud projected on the extensive emission nebulosity in this region. See page 541. [National Geographic Palomar Sky Survey]
Science 195 (4278), 534-600.