LETTERS


EDITORIAL

Coping with Gridlock

ARTICLES

Adventure into Space: E. M. Burbidge

Science and the Urban University: D. Adamany

ASSOCIATION AFFAIRS

David A. Hamburg: President-Elect of AAAS: J. Lederberg

AAAS Council Meeting, 1983: C. Borras

NEWS AND COMMENT

Congress, NIH Open Coffers for AIDS

AIDS Fears Spark Row Over Vaccine

Review Panel Finds Federal Labs Lacking

FDA Draws Criticism on Prenatal Test

Briefing: Pesticide Office Demands New Safety Studies; NRC Delays Pipe Inspections; Air Force Unravels Rocket Mystery; Boom and Bust in Energy; Smithsonian Inventory Turns Up Lots of Stuff

RESEARCH NEWS

The T Cell Receptor—At Hand at Last

Archeological Analysis Gets Some Teeth

Satellite Briefing: Frigid Oceans for Triton and Titan; Chaotic Rotation Predicted for Hyperion; Could Saturn’s Rings Have Melted Enceladus?; Volcanism at 100° Below

*CE is published weekly on Friday, except the last week in December, by the American Association for the Advancement of Science, 1515 Massachusetts Avenue, NW, Washington, D.C. Second-class postage (publication No. 404460) paid at Washington, D.C., and at additional entry. Now combined with The Scientific Monthly. Copyright © 1983 by the American Association for the Advancement of Science. Domestically individual membership and subscription ($1.00; domestic institutional subscription ($1 issue): $0. Domestic institutional subscription ($1 issue): $0. Foreign postage extra: Canada $2, other (surface mail) $6. First class, airmail, school year, and student rates on request. Single copies $2.50 ($3 by mail); back issues $3 ($3.50 by mail); back issues not available within the first year of publication. Authorization to photocopy material for internal or personal use under circumstances not falling within the fair use provisions of the Copyright Act is granted to libraries and other users registered with the Copyright Clearance Center (CCC) Transactional Reporting Service provided that the base fee of $1 per copy plus $0.10 per page is paid directly to CCC, 21 Congress Street, Salem, Massachusetts 01970. The identification code for Science is 0036-8075/83 $1.00 aster serve only those organizations who must use them for non-profit purposes. For information about the American Association for the Advancement of Science, please call (202) 326-6700. SCIENCE is indexed in the Reader’s Guide to Periodical Literature and in several specialized indexes.
BOOK REVIEWS

Approval Voting, reviewed by H. T. Reynolds; The Fight to Save the Redwoods, R. C. Tobey; Atoms in Astrophysics, C. L. Sarazin; Books Received...

REPORTS

Uranus: Variability of the Microwave Spectrum: S. Gulkis et al.

Ediacaran (Precambrian) Fossils from the Wernecke Mountains, Northwestern Canada: H. J. Hofmann, W. H. Fritz, G. M. Narbonne

Lessons from the Silica “Decline” in Lake Michigan: J. Shapiro and E. B. Swain

The Cheetah Is Depauperate in Genetic Variation: S. J. O’Brien et al.

Insulin Receptor Antiserum and Plant Lectins Mimic the Direct Effects of Insulin on Nuclear Envelope Phosphorylation: F. Purrello, D. B. Burnham, I. D. Goldfine

Calcium-Dependent Stress Maintenance Without Myosin Phosphorylation in Skinned Smooth Muscle: M. Chatterjee and R. A. Murphy


Minor Histone 2A Variants and Ubiquinated Forms in the Native H2A:H2B Dimer: C. L. Hatch, W. M. Bonner, E. N. Moudrianakis

Fetal Brain Transplants: Reduction of Cognitive Deficits in Rats with Frontal Cortex Lesions: R. Labbe et al.

Effects of Serotonin on Memory Impairments Produced by Ethanol: H. Weingartner et al.

Light and Propranolol Suppress the Nocturnal Elevation of Serotonin in the Cerebrospinal Fluid of Rhesus Monkeys: N. A. Garrick et al.

Endogenous Inhibitors of Monoamine Oxidase Present in Human Cerebrospinal Fluid: R. E. Becker et al.

Evidence for Olfactory Function in Utero: P. E. Pedersen et al.

Accurate Visual Measurement of Three-Dimensional Moving Patterns: J. S. Lappin and M. A. Fuqua

Social Wasps: Discrimination Between Kin and Nonkin Brood: J. E. Klahn and G. J. Gamboa

Technical Comments: Male Firefly Mimicry: J. Copeland; J. E. Lloyd

COVER

South African cheetah (Acinonyx jubatus) and her cubs. The cheetah is the single living member of the genus Acinonyx and is considered to be markedly divergent from the two other genera of Felidae (Panthera N = 5 species and Felis N = 32± species). The cheetah as a species appears to have suffered a severe population bottleneck followed by inbreeding in its recent natural history as evidenced by an extreme paucity of biochemical genetic variation in modern populations. See page 459. [Ron Kimball, Wildlife Safari Reserve, Winston, Oregon]