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EDITORIAL

Coping with Gridlock

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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
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** by *S. Gulkis et al.*

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

**Lessons from the Silica "Decline" in Lake Michigan** by *J. Shapiro and E. B. Swain*

**The Cheetah Is Depauperate in Genetic Variation** by *S. J. O'Brien et al.*

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

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

**Electrical Synapse Formation Depends on Interaction of Mutually Growing Neurites** by *R. D. Hadley, S. B. Kater, C. S. Cohan*

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

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

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

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

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

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

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

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

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

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**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]