LETTERS

EDITORIAL
The Vernov Radiation Belt (Almost): A. J. Dessler ......................... 915

ARTICLES
Exciplexes and Electron Transfer Reactions: S. L. Mattes and S. Farid ........ 917
The Quest for the Origin of the Elements: W. A. Fowler .................... 922
Nucleosome Reconstruction via Phosphorus Mapping: G. Harauz and F. P. Ottensmeyer .............. 936
The Dark Night-Sky Riddle: A "Paradox" That Resisted Solution: E. R. Harrison ......... 941

NEWS AND COMMENT
The Looming Budget Crisis in Britain's Labs ....................................... 946
New Jersey Votes a High Tech Bond Issue ............................................. 947
Asking for the Moon ........................................................................ 948
Obstacles to Arms Control in Space ...................................................... 949
Panel Says Depo-Provera Not Proved Safe .............................................. 950
Panel Picks Apart the Studies ............................................................... 951
Briefing: Nonprofits That Cultivate Development Are Merging; Alternative Nobels for Third World Pioneers; Crisis Manager Dies at 38; Pentagon Hit by New Microchip Troubles; Renewable Energy R&D Favored by Small Nations .................................................. 952

RESEARCH NEWS
Doubling of Atmospheric Methane Supported ........................................ 954
Frog Genes Jump Species .................................................................... 955
Scrutinizing Sleeping Sickness ............................................................. 956

BOARD OF DIRECTORS

ANNA J. HARRISON Retiring President, Chairman
DAVID A. HAMBURG President
GERARD PIEL President-Elect
ROBERT W. BERLINER LAWRENCE BOCCHILO
WALTER E. MASSEY W. DONALD NELKEN

CHAIRMEN AND SECRETARIES OF AAAS SECTIONS

MATHMATICS (A) Gail S. Young
LYNN ARTHUR STEEN
PHYSICS (B) Chen Ning Yang
Rolf M. Sinclair
SOCIAL, ECONOMIC, AND POLITICAL SCIENCES (K)
Robin M. Williams, Jr.
David L. Sills
DENTISTRY (R) Robert J. Fitzgerald
JOE KULMER
PHARMACEUTICAL SCIENCES (S)
Stuart Feldman
David A. Knapp
INFORMATION, COMPUTING, AND COMMUNICATION
Joseph Becker
Matthew M. Henderson

DIVISIONS

SCIENCE is published weekly, except the last week in December, by the American Association for the Advancement of Science, 1515 Massachusetts Avenue, NW, Washington, D.C. 20005. Second-class postage (publication No. 484460) paid at Washington, D.C., and at an additional entry. Now combined with The Scientific Monthly. Copyright © 1984 by the American Association for the Advancement of Science. Domestic individual membership and subscription (51 issues): $96. Domestic institutional subscription (51 issues): $99. Foreign postage extra: Canada $24; other (surface mail): $27, air-survice via Amsterdam $65. First class, air-mail, school-year, and student rates on request. Single copies $2.50 ($3 by mail); back issues $3 ($3.50 by mail); Biotechnology issue, $5 ($5.50 by mail); classroom rates on request. Change of address: allow 6 weeks, giving old and new addresses and seven-digit account number. Authorization to photocopy material for internal or personal use under circumstances not falling within the fair use provisions of the Copyright Act is granted by AAAS 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, 27 Congress Street, Salem, Massachusetts 01970. The identification code for Science is 0036-8075/84 $1.00. Postmaster: Send Form 3579 to Science, 1515 Massachusetts Avenue, NW, Washington, D.C. 20005. Science is indexed in the Reader's Guide to Periodical Literature and in several specialized indexes.
The AIDS Connection

BOOK REVIEWS

Informed Consent, reviewed by J. A. Robertson; Avoiding Inadvertent War, V. Ritterberger; Ocean Tides, M. Hendershott; Adaptive Responses of Native Amazonians, O. F. Linares; Books Received

REPORTS

Biological Communities at the Florida Escarpment Resemble Hydrothermal Vent Taxa: C. K. Paull et al.

Salivary Proline-Rich Protein Genes on Chromosome 8 of Mouse: E. A. Azen et al.

Conformational Variability of NAD⁺ in the Free and Bound States: A Nicotinamide Sandwich in NAD⁺ Crystals: R. Parthasarathy and S. M. Friday


Functional Insertion of an Alu Type 2 (B2 SINE) Repetitive Sequence in Murine Class I Genes: M. Kress et al.

Antidepressants Cause Lethal Disruption of Membrane Function in the Human Protozoan Parasite Leishmania: D. Zilberstein and D. M. Dwyer

A Single Troponin T Gene Regulated by Different Programs in Cardiac and Skeletal Muscle Development: T. A. Cooper and C. P. Ordahl

Modulation of the Metastatic Activity of Melanoma Cells by Laminin and Fibronectin: V. P. Terranova et al.

Inhibitors of Lysosomal Enzymes: Accumulation of Lipofuscin-Like Dense Bodies in the Brain: G. O. Ivy et al.

Novel Pharmacology of Substance K-Binding Sites: A Third Type of Tachykinin Receptor: S. H. Buck et al.

The Spiracular Organ of Sharks and Skates: Anatomical Evidence Indicating a Mechanoreceptive Role: M. A. Barry and R. L. Boord


COVER

The Creation of the World (genesis mundi) from the four-volume encyclopaedia on human knowledge (Ultriusque cosmi majoris, 1617–1619) by Robert Fludd, a distinguished physician of early 17th-century London. At the center are Adam and Eve in the earthly paradise, surrounded by the celestial spheres, the sphere of star, and the outermost sphere—the empyrean—of purest fire. The Copernican Revolution overturned this medieval cosmography, but the Cartesians and Newtonians retained the principle of theistic creation of a universe of finite age. See page 940. [From The Cosmographical Glass: Renaissance Diagrams of the Universe, by S. K. Heninger, The Huntington Library, San Marino, California, 1977]
Science 226 (4677), 911-996.

http://science.sciencemag.org/content/226/4677

http://www.sciencemag.org/help/reprints-and-permissions

Use of this article is subject to the Terms of Service

Science (print ISSN 0036-8075; online ISSN 1095-9203) is published by the American Association for the Advancement of Science, 1200 New York Avenue NW, Washington, DC 20005. 2017 © The Authors, some rights reserved; exclusive licensee American Association for the Advancement of Science. No claim to original U.S. Government Works. The title Science is a registered trademark of AAAS.