LETTERS
Fraud in Science: R. E. Kuttner; Arid Land Crops: L. Icerman; C. W. Hinman; Carcinogenesis: T. H. Jukes 466

EDITORIAL
The Bell Laboratories Revisited 467

ARTICLES
Government Policies and the Cost of Doing Research: D. Kennedy 480
Nucleotide Sequence and Expression of an AIDS-Associated Retrovirus (ARV-2): R. Sanchez-Pescador et al. 484

NEWS AND COMMENT
Gene Therapy: Research in Public 493
Legislative Paralysis on the Environment 496
Briefing: OMB Director Will Cost NIH Loss of 1500 Grants; MacArthur Puts $25 Million into World Peace Studies; White House Picks Calio to Head NOAA; Peace Institute Funds Deferred; Germany Wants In on U.S. Space Station; Comings and Goings 498

RESEARCH NEWS
Unexpected Progress in Photoreception 500
An Amplifying Cascade 501
A Paradoxical Molecule 502
AIDS Virus Genomes 503
Inyo Domes Drilling Hits Pay Dirt 504
Squarks at CERN? 505
Wild String of Winters Confirmed 506

ASSOCIATION AFFAIRS
Annual Report of the Executive Officer: W. D. Carey 507

BOARD OF DIRECTORS
ANNA J. HARRISON
Chairman
D. A. HAMBERG
President
GERARD PIEL
President-Elect
ROBERT W. BERLINER
Lawrence Bograd
WALTER E. MASSEY
Dorothy Nelkin

CHAIRMEN AND SECRETARIES OF AAAS SECTIONS
MATH (A) Pool S. Young
PSYCHOL (J) Gregory A. Kimble
EDUCATION (Q) Marvin Druger

DENTISTRY (R) Robert J. Fitzgerald

PHARMACEUTICAL SCIENCES (S) Stuart Feldman

INFORMATION, COMPUTING, AND COMMUNICATION (T)

J. W. D. Carey President

SCIENCE 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. 20005. Second-class postage (publication No. 40446) paid at Washington, D.C., and at an additional entry. New combined with The Scientific Monthly® Copyright © 1965 by the American Association for the Advancement of Science. Domestic individual membership and subscription $15. Domestic institutional subscription $15. Foreign postage extra: Canada $24, other (surface mail) $27, air service via Airspeed $65. First class, airmail, school-year, and student rates on request. Single copies (50 by mail); back issues (50 by mail); Biotechnology issue, $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, 21 Congress Street, Salem, Massachusetts 01970. The identification code for Science is 0036-8075. Printed in U.S.A. on recycled paper. Copyright © 2005, 2006, by the American Association for the Advancement of Science.
BOOK REVIEWS

Isolated Singular Points on Complete Intersections, reviewed by H. C. Pinkham; The Solar Granulation, S. L. Kell; European Mires, A. W. H. Damman; Cellular Ageing, G. Martin; Reprints of Books Previously Reviewed; Books Received.......................................................... 512

REPORTS

Lunar Sample 14425: Characterization and Resemblance to High-Magnesium Microtektites: J. A. O'Keefe and B. P. Glass ................. 515

Magnetic Resonance Imaging of Biological Specimens by Electron Paramagnetic Resonance of Nitroxide Spin Labels: L. J. Berliner and H. Fuji 517

Two-Million-Year Record of Deuterium Depletion in Great Basin Ground Waters: I. J. Winograd et al. ........................................ 519

Isolation, Experimental Transmission, and Characterization of Causative Agent of Potomac Horse Fever: C. J. Holland et al. .............. 522

Histological Demonstration of Mosaicism in a Series of Chimeric Rats Produced Between Congenic Strains: W. C. Weinberg, J. C. Howard, P. M. Iannaccone 524

Microorganism Mediated Reproductive Isolation in Flour Beetles (Genus Tribolium): M. J. Wade and L. Stevens .......................... 527

Experimental Leprosy in Three Species of Monkeys: R. H. Wolf et al. .................................................. 529

The Role of Hemoglobin Denaturation and Band 3 Clustering in Red Blood Cell Aging: P. S. Low et al. ........................................ 531

Insulin Mediators from Rat Skeletal Muscle Have Differential Effects on Insulin-Sensitive Pathways of Intact Adipocytes: L. Jarett et al. 533

Vaccination Against Schistosoma mansoni with Purified Surface Antigens: M. A. Smith and J. A. Clegg .................................. 535

Characterization of Long Terminal Repeat Sequences of HTLV-III: B. Starkich et al. .......................................................... 538

The Pollination of Zygogynum (Winteraceae) by a Moth, Sabatinca (Micropterigidae): An Ancient Association?: L. B. Thien et al. ... 540


Hypothalamic Reward Mechanism: Two First-Stage Fiber Populations with a Cholinergic Component: A. Gratton and R. A. Wise .... 545

Multiple Organ Carcinogenicity of 1,3-Butadiene in B6C3F1 Mice After 60 Weeks of Inhalation Exposure: J. E. Huff et al. ............... 548

COVER

Variegated Glacier (Alaska) in full surge, 4 July 1983. View is upstream from a point 5 kilometers from the terminus. It shows the extreme fracturing (crevassing) and bulging, or arching up, of the ice caused by the surge. Ice in the middle ground is moving toward the camera at a speed of about 30 meters per day. In the foreground is a lake (with icebergs) formed by welling up of highly turbid (brown) water in the large crevass (left foreground), from which the water flows out to the glacier margin. This water comes from the glacier bed and its upwelling is an indication of high pressure in the basal system. See page 469. [Elise Mezger, California Institute of Technology, Pasadena 91125]