687 This Week in Science

Editorial

Reliability of Electric Service

Letters


News & Comment

Berkeley's Changing Student Population ■ Concern in Washington

OTA to NASA: Accidents Will Happen Wanted: $25 Million for Mouse House

Strasbourg Home for Frontiers

Why Won't NASA Talk to Scientists Caution Urged on DNA Fingerprinting

Research News

Strange Bedfellows ■ Esoteric Borrowing from Physics

Another California Seismic Hot Spot Exxon Bets on Bugs in Alaska Cleanup

Briefings: Byrd Reins in "Pork Barrel Lobbyist" ■ Cambridge Profs Piqued at Merit Pay ■ Statistics to Star on TV? ■ Congress Caps Grant Overhead Charge ■ Utah Keeps the Faith ■ CEQ Gets Director

Articles

Airline Deregulation and Public Policy: S. A. Morrison and C. Winston


Morphogenesis of the Polarized Epithelial Cell Phenotype: E. Rodriguez-Boulan and W. J. Nelson

Research Articles

Inhibition of DNA Binding Proteins by Oligonucleotide-Directed Triple Helix Formation: L. J. Maher III, B. Wold, P. B. Dervan

Reports


Origins and Movement of Fluids During Deformation and Metamorphism in the Canadian Cordillera: B. E. Nesbitt and K. Muehlenbachs

SCIENCE is published weekly on Friday, except the last week in December, and with an extra issue in February by the American Association for the Advancement of Science, 1333 H Street, NW, Washington, DC 20005. Second-class postage (publication No. 484460) paid at Washington, DC, and at an additional entry. Now combined with The Scientist Monthly. Copyright © 1989 by the American Association for the Advancement of Science. The title SCIENCE is a registered trademark of the AAAS. Domestic individual membership and subscription (51 issues): $75. Domestic institutional subscription (51 issues): $120. Foreign postage extra: Canada $46, other (surface mail) $46, air mail via Amsterdam $85. First class, airmail, school-year, and student rates on request. Single copy sale: Current issue, $3.50; back issues, $5.00; biotechnology issue, $6.00 (for postage and handling; add per copy $0.50 U.S., $1.00 all foreign); Guide to Biotechnology Products and Instruments, $18 (for postage and handling add per copy $1.00 U.S., $1.50 Canada, $2.00 other foreign). Bulk rates on request. 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 0036-8075/89 $1 + .10. Change of address: allow 6 weeks, giving old and new addresses and 11-digit account number. Postmaster: Send Form 3579 to Science, P.O. Box 1722, Riverton, NJ 08077. Science is indexed in the Reader's Guide to Periodical Literature and in several specialized indexes.

The American Association for the Advancement of Science was founded in 1848 and incorporated in 1874. Its objects are to further the work of scientists, to facilitate cooperation among them, to foster scientific freedom and responsibility, to improve the effectiveness of science in the promotion of human welfare, and to increase public understanding and appreciation of the importance and promise of the methods of science in human progress.
Cover: Polar view of the sun constructed from Kitt Peak magnetograms, showing magnetic flux drifting from the sunspot belt toward the negative-polarity north pole during August 1983. The poleward streams, which form a rigidly rotating spiral pattern, gradually establish a strong "topknot" solar field as the 1986 sunspot minimum approaches. See page 712. [Image created at the Naval Research Laboratory from data provided by J. W. Harvey]

736 A Rotationally Resolved Fluorescence Excitation Spectrum of all-trans-1,4-Diphenyl-1,3-butadiene: J. F. Pfannstiel, B. B. Champagne, W. A. Majewski, D. F. Plusquellec, D. W. Pratt

738 Identification by ENDOR of Trp91 as the Free-Radical Site in Cytochrome c Peroxidase Compound ES: M. Sivaraja, D. B. Goodin, M. Smith, B. M. Hoffman

740 Specific Expression of Nuclear Proto-Oncogenes Before Entry into Meiotic Prophase of Spermatogenesis: H. Wolfes, K. Kogawa, C. F. Millette, G. M. Cooper

743 The MHC-Binding and gp120-Binding Functions of CD4 Are Separable: D. Lamarre, A. Ashkenazi, S. Fleury, D. H. Smith, R.-P. Sekaly, D. J. Capon


749 Neonatal Thymectomy Results in a Repertoire Enriched in T Cells Deleted in Adult Thymus: H. Smith, I.-M. Chen, R. Kubo, K. S. K. Tung


755 Light Adaptation in Cat Retinal Rods: T. Tamura, K. Nakatani, K.-W. Yau

758 Limbic Seizures Increase Neuronal Production of Messenger RNA for Nerve Growth Factor: C. M. Gall and P. J. Jackson

761 Neuronal Correlates of Subjective Visual Perception: N. K. Logothetis and J. D. Schall

Technical Comments


Book Reviews

768 The Papers of Thomas A. Edison, reviewed by: T. J. Misa - Darwin in Russian Thought, P. T. Grieger - The Physics of Solar Flares, E. Priest - Pions and Nuclei, D. S. Koltun - Books Received

Products & Materials

773 Image Processing Software - Chromatography Data-Handling System - Multitasking Autotitrator - In Situ Hybridization Systems - Gene Screening by Image Analysis - Literature
Science 245 (4919), 687-773.