This Week in Science

Editorial
825 Scientists' Roles in AIDS Control: D. Jenness

Letters

News & Comment
831 Proposal to Ban Mobile Missiles Favors Targeting Over Arms Control
833 U. S.—Soviet Exchanges—Redefining Coexistence
835 Nuclear Waste Program Faces Political Burial
837 Briefing: Illinois Wipes Out State Budget for Psychiatric Research ■ Forest Death Showing Up in the United States ■ Chernobyl-Type Accident Deemed Unlikely at Hanford Plant ■ Senate Amendment Seeks Curb on Pork Barrel Funding ■ Biotech Field Test Halted by State Court

Research News
839 Youth Suicide: New Research Focuses on a Growing Social Problem
841 Briefing: Astronomers Find Their First Embryonic Star
842 Spotting the Atoms in Grain Boundaries

Articles
849 Neuronal Circuits: An Evolutionary Perspective: J. P. C. Dumont and R. M. Robertson

Research Articles
853 The Complete Primary Structure of Protein Kinase C—the Major Phorbol Ester Receptor: P. J. Parker, L. Coussens, N. Totty, L. Rhee, S. Young, E. Chen, S. Stabel, M. D. Waterfield, A. Ullrich
859 Multiple, Distinct Forms of Bovine and Human Protein Kinase C Suggest Diversity in Cellular Signaling Pathways: L. Coussens, P. J. Parker, L. Rhee, T. L. Yang-Feng, E. Chen, M. D. Waterfield, U. Francke, A. Ullrich

SCIENCE is published weekly on Friday, except the last week in December, and with a plus issue in May by the American Association for the Advancement of Science, 1333 H Street, NW, Washington, DC 20005. Second-class postage (publication No. 484440) paid at Washington, DC, and at an additional entry. Now combined with The Scientific Monthly®. Copyright © 1996 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): $85. Domestic institutional subscription (51 issues): $98. Foreign postage extra: Canada $24, other (surface mail) $27, air-surface via Amsterdam $65. First class, airmail, school-year, and student rates on request. Single copies $2.50 ($3 by mail); back issues $4 ($4.50 by mail); Biotechnology issue, $5.50 ($6 by mail); classroom rates on request; Guide to Biotechnology Products and Instruments $16 ($17 by mail). 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 0036-8075/96 $1 + .10. Postmaster: Send Form 3579 to Science, 1333 H Street, NW, Washington, DC 20005. 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  Experimental watershed no. 5 in the Hubbard Brook Experimental Forest, in central New Hampshire. This watershed was commercially whole-tree harvested in 1983. Experimental watershed no. 6, the location of a continuous 25-year record of precipitation and stream water chemistry, is to the immediate left of watershed no. 5. Massive disturbances, such as whole-tree harvesting, set in motion a series of biogeochemical responses that shape both the long- and short-term behavior of the recovering landscape. See page 867. [Ashton Hallett]

Reports

867  Transport and Loss of Nitrous Oxide in Soil Water After Forest Clear-Cutting: W. B. Bowden and F. H. Bormann


875  Observations of Pentagonally Twinned Precipitate Needles of Germanium in Aluminum: U. Dahmen and K. H. Westmacott

876  A Fossil Grass (Gramineae: Chloridoideae) from the Miocene with Kranz Anatomy: J. R. Thomasson, M. E. Nelson, R. J. Zakrzewski

879  Structure and Diversity of the Human T-Cell Receptor B-Chain Variable Region Genes: J. P. Tillinghast, M. A. Behlke, D. Y. Loh

883  Replication of the B19 Parvovirus in Human Bone Marrow Cell Cultures: K. Ozawa, G. Kurtzman, N. Young

886  Calcium Rises Abruptly and Briefly Throughout the Cell at the Onset of Anaphase: M. Poenie, J. Alderton, R. Steinhardt, R. Tsien

889  Upstream Operators Enhance Repression of the lac Promoter: M. C. Mossing and M. T. Record, Jr.

Products & Materials

893  Incubation Hood ■ Cell and Tissue Adhesive ■ Research Project Database ■ Supercritical Fluid Chromatography ■ Custom DNA and Peptide Synthesis ■ Automated Pipettor ■ Literature

Book Reviews

896  The Dilemmas of an Upright Man, reviewed by D. C. Cassidy ■ The Photochemistry of Atmospheres, R. J. Cicerone ■ Hope for a New Neurology, J. B. Martin ■ Transport and Diffusion across Cell Membranes, C. Tanford ■ Books Received
Science 233 (4766), 823-898.