1271 This Week in Science

Editorial

1273 Support for Materials Science and Engineering

Letters

1280 U.S. Oil and Gas Consumption: Is Another Crisis Ahead?: D. B. HAWKINS; R. L. HIRSCH  ■ Punitive Damages and Innovation: D. H. KAYE; A. BROWN; R. L. RANDALL; R. J. MAHONEY AND S. E. LITTLEJOHN

News & Comment

1283 SDI Heads for Fiscal Crash  ■ With a Little Help  ■ Army, Air Force Eye SDI Spinoffs  ■ The Ups and Downs of Strategic Defense Weapons

1286 In Peru, Even Potato Research Is High Risk

1287 Gene Therapy Clears First Hurdle

1288 Greenpeace and Science: Oil and Water?

1290 Academy of Engineering Elects New Members

Research News

1291 Particle Physicists Look to the Heavens

1294 Heart Like a Wheel

1295 Tweaking Molecules with Laser Light

1296 CF Screening Delayed for a While, Possibly Forever

1297 Ozone Destruction Closer to Home

1298 Briefings: Prospectors Cash In on Geologist’s Find  ■ Transgenic Carp: Pond-Ready?  ■ Technology Unlocks “Lost” Writings  ■ Sanford Patents Pay

Articles

1299 Drug Prevention in Junior High: A Multi-Site Longitudinal Test: P. L. ELICKSON and R. M. BELL


Research Article


Reports

1317 Femtosecond Pulse Sequences Used for Optical Manipulation of Molecular Motion: A. M. WEINER, D. E. LEAIRD, G. P. WIEDERRECHT, K. A. NELSON

© SCIENCE is published weekly on Friday, except the last week in December, and with a supplement in March by the American Association for the Advancement of Science, 1333 H Street, NW, Washington, DC 20005. Second-class Non-profit postage (publication No. 464460) paid at Washington, DC, and at an additional entry. Copyright © 1990 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 sales: 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 others users registered with the Copyright Clearance Center (CCC) Transactional Reporting Service, provided that the base fee of $1 per copy plus $.10 per page is paid directly to CCC, 27 Congress Street, Salem, Massachusetts 01970. The identification code for Science is 0036-8075/90 $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 1723, 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 objectives 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, to advance education in science, and to increase public understanding and appreciation of the importance and promise of the methods of science in human progress.
Basalt lava erupted from Kilauea Volcano, Hawaii, pours 3 meters from a shallow tube into the Pacific Ocean. The current eruption began in January 1983; the lava produced now covers 70 square kilometers, including 150 acres of new land formed along the seacoast. Analysis of more than 20 years of ground deformation data suggests that Kilauea's magma system is deeper and more extensive than previously thought. See page 1311. [Photographed on 27 November 1989 by J. D. Griggs, U.S. Geological Survey]
Science 247 (4948), 1271-1354.