459 This Week in Science

Editorial
461 Climate and Water

Letters
462 Good Science Advice: G. E. Brown, Jr. • Evolution and Family Homicide: S. A. George; A. H. Harcourt; M. Daly and M. Wilson

News & Comment
469 Accelerator Eyed for Warhead Tritium
470 If It's Tuesday, This Must Be . . . Heraklion?
471 Britain Reveals Astronomy Plan
Chauvinism in Nobel Nominations
472 Space Cameras and Security Risks
473 Human Gene Transfer Test Approved
Leakey Leaves Kenya Museums
474 AAAS Meeting Draws a Crowd: Science's Public Persona • "Oh, I Thought You Were a Man." • A World of Megacities • Space Reactors and Arms Control

Research News
477 Sources and Sinks Complicate Ecology
478 Feeding the Monster in the Middle
479 Take Your Choice: Ice Ages, Quakes, or Impacts: A Combination of Impact and Volcano Is Dismissed • Taking the Pulse of the San Andreas Fault • New Way to Switch Earth Between Hot and Cold
481 Are Neural Nets Like the Human Brain?
482 Inbreeding Costs Swamp Benefits

Articles
489 A Specialization for Speech Perception: A. M. Liberman and I. G. Mattingly
494 Nonlinear Mixing of Electromagnetic Waves in Plasmas: V. Stefan, B. I. Cohen, C. Joshi
500 Functions of Sphingolipids and Sphingolipid Breakdown Products in Cellular Regulation: Y. A. Hannun and R. M. Bell

Research Articles
507 Chromosomal Rearrangement Generating a Composite Gene for a Developmental Transcription Factor: P. Stragier, B. Kunkel, L. Kroos, R. Losick

Reports

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. Copyright © 1989 by the American Association for the Advancement of Science. This title SCIENCE is a registered trademark of the AAAS. Domestic individual membership and subscription (51 issues): $70. Domestic institutional subscription (51 issues): $110. Foreign postage extra: Canada $32, other (surface mail) $32, air-surface 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, $8.00 (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. 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 $.10 per page is paid directly to CCC, 21 Congress Street, Salem, Massachusetts 01970. The identification code for Science is 0036-8075/89 $1 + .10. 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.