This Week in Science

Editorial
429 Technology and Environment

Letters

News & Comment
436 Reading the Future in Loma Prieta
437 "We Have Built Our Houses on Sand"
438 Bad Vibes at Stanford
439 Japan Boosts Genome Research Congress Set to Pass R&D Budgets
440 Mud-Slinging Over Sewage Technology
443 Bush Awards Science, Technology Medals

Research News
444 Synthesizing Oils Is a Slippery Job ■ Getting a Grip on Rubbing Bodies
446 Gene-Transfer Technique Looks Bleak
447 An Unsung Legacy of the First Lunar Landing
448 Can Psychotherapy Delay Cancer Deaths?
449 Teller, Chu "Boost" Cold Fusion
450 Briefings: ■ Soviets Back in World Psychiatric Body ■ Ford Launches Kids' Math Project ■ NSF to Terminate Princeton Center ■ Private Sector to Do British Sex Survey ■ Baltimore Says "I Do" ■ New Surgeon General

Articles
451 The Unending Deposit Insurance Mess: E. J. KANE
457 Natural and Artificially Initiated Lightning: M. A. UMAN, AND E. P. KRIDER
465 Contributions of Bird Studies to Biology: M. KONISHI, S. T. EMLEN, R. E. RICKLEFS, J. C. WINGFIELD

Reports
477 Carbon Dioxide Transport by Ocean Currents at 25°N Latitude in the Atlantic Ocean: P. G. BREWER, C. GÖYET, D. DYRSSEN

SCIENCE is published weekly on Friday, except the last week in December, and with an extra issue in March 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 Scientific 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 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 other users registered with the Copyright Clearance Center (CCC) Transactional Reporting Service, provided that the base fee of $1 per page plus $0.10 per page is paid directly to CCC, 27 Congress Street, Salem, Massachusetts 01970. The identification code for Science is 0036-8075/83 $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.
Lightning over a Colorado night sky. Recent attempts to understand such electrical discharges are motivated by spectacular accidents involving aircraft and spacecraft. Uman and Krider (page 457) describe research on natural and artificially initiated discharges that aims to both clarify the physics of lightning and find new ways of protecting against lightning damage. [Photo by John Deeks, Science Source/Photo Researchers]