Editorial

485 Transportation Fuels

Policy Forum

490 Risk-Based Oversight of Experiments in the Environment: H. I. Miller, R. H. Burris, A. K. Vidaver, N. A. Wivel

Letters

492 Filovirus Infection in Newly Imported Monkeys: W. L. Roper

“Internationalization” of Engineers: T. C. Rozzell

British Technology Group Income: P. Tanner

Samothrace: J. E. Garrett

Meta-Analysis and Bias: P. M. Worton; B. J. Fine

News & Comment

496 Cold Spring Harbor Turns 100

499 The Shuttle: Whistling Past the Graveyard?

501 Energy Science Takes a Heavy Budget Hit

502 Not Enough Monkey Business

Gallo Reports Mystery Break-in

503 Briefings: Snaking Across the Martian Sands

Is MCAT Next? Grim Times for

British Science

Fermi Award

Research News

504 Evolving Similarities—Between Disciplines

506 Playing Tetherball in the Nervous System

508 Physics Nobel Honors the Discovery of Quarks

509 Three “Practical” Economists Share Nobel

510 Chemistry “Grand Master” Garners a Nobel Prize

511 Earthquake—or Earthquack?

Perspective

512 RNA Editing—A Novel Genetic Phenomenon?: L. Simpson

Articles

517 The Flight from the Arts and Sciences: Trends in Degrees Conferred:

S. E. Turner and W. G. Bowen

521 Scattering and Recoiling Spectrometry: An Ion’s Eye View of Surface Structure:

J. W. Rabalais

Research Articles

528 DNA Looping and Unlooping by AraC Protein: R. B. Lobell and R. F. Schleif

533 Biophysical and Molecular Mechanisms of Shaker Potassium Channel Inactivation:

T. Hoshi, W. N. Zagotta, R. W. Aldrich

---

This Week in Science

---

American Association for the Advancement of Science

Science (ISSN 0036-8075) is published weekly on Friday, except the last week in December, 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 additional mailing offices. 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): $60. Domestic institutional subscription (51 issues): $150. Foreign postage extra: Canada $46, other (surface mail) $46, air mail via Amsterdam $85. First class, airmail, school-year, and student rates on request. Change of address: allow 6 weeks, giving old and new addresses and 11-digit account number. Postmaster: Send change of address to Science, P.O. Box 1723, Riverton, NJ 08077. 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, $20 (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 0036-8075/83 @ $1 + .10. 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.
A false-color image of the core of the cluster of galaxies Abell 2029. Most of the objects are galaxies which reside within the halo of the massive giant that dominates the cluster. This galaxy is one of the largest and most luminous in the universe, 100 times brighter than our own Milky Way. See page 539. [Photograph by Juan M. Uson, Stephen P. Boughn, and Jeffrey R. Kuhn]
Editor's Summary