This Week in Science

Editorial
981 The Choosing of the NIH Director

Perspective
982 Mechanisms of Immunological Tolerance: H. R. MacDonald
983 Retrovirus Vectors: Promise and Reality: H. M. Temin

Letters
984 Soviet-U.S. Seismological Data Exchange: J. R. Filson and J. Peterson 
BU “Takeover” of Chelsea Schools: B. J. Fine 
Top Quark Search: J. Peoples 
RU 486 Development: G. Teutsch, P. Carbone 
UCLA and Precollege Science: A. A. Russell

News & Comment
988 Hard Times at NIH
990 House Trims off Academic Pork
991 Soviet Sociology Makes a Comeback
992 Global Warming: Blaming the Sun
994 Dispute Surfaces Over Paternity of RU 486

Research News
995 Playing Three-Dimensional Pool 
The Shadow Cone Sheds Some Light
996 Galileo (Whew!) Changes Course
Readers Write to Right Wrongs
998 A Passion for the Little Things Among the Planets: The Poor Man’s Grand Tour of the Solar System 
First Direct View of Solar System Chaos 
Largest Radar Detects Dumbbell in Space 
Which Way Is North? Ask Right-Handed Astronomers
1000 Briefings: Congress to Help Rebuild Mouse Lab 
Layoffs Begin at Research Labs 
Misplacing Kabul 
ACS Weighs in on Science Education 
Nabisco Chips in $30 Million 
Megaprojects Under Review at OSTP 
Max Planck Picks a Lawyer as Leader 
And Who’s Behind That Mask? 
Bonfire to Save the Rhino 
Rhino DNA Mix and Match

Articles
1002 The Origins of Ceramic Technology at Dolni Vestonice, Czechoslovakia: P. B. Vandiver, O. Soffer, B. Klima, J. Syvoda
1009 Chemical Cartography: Finding the Keys to the Kinetic Labyrinth: G. W. Flynn
1015 Parasitic Protozoa and Helminths: Biological and Immunological Challenges: A. F. Mahmoud

Research Articles

---

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. Secondclass postage (publication No. 844460) 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 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. 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, Riveraton, NJ 08607. 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.
Covariance map of the Coulomb explosions in nitrous oxide after ionization by an intense picosecond laser. The covariance mapping technique gives directly the correlations between the momenta of the various fragment ions and thereby provides detailed information on the structure and fragmentation dynamics of the parent molecule. See page 1029. [Data acquisition and visualization algorithm by L. J. Frasinski, University of Reading, United Kingdom]

**Reports**

1026 Spatially Resolved Organic Analysis of the Allende Meteorite: R. ZENOBII, J.-M. PHILIPPOZ, P. R. BUSECK, R. N. ZARE


1032 Temperature and Sperm Incorporation in Polyplody Salamanders: J. P. BOGART, R. P. ELINSON, L. E. LIGHT

1034 Similarity Between the Transcriptional Silencer Binding Proteins ABF1 and RAP1: J. F. X. Diffley and B. Stillman

1038 A Nondeletional Mechanism of Thymic Self-Tolerance: F. R. Samuel, T. LANTZ, B. J. Fowlkes

1041 Failure of T Cell Receptor Vβ Negative Selection in an Athymic Environment: R. J. Hodes, S. O. Sharrow, A. Solomon


1046 DNA Topoisomerase I-Targeted Chemotherapy of Human Colon Cancer in Xenografts: B. C. Giovannella, J. S. Stehlin, M. E. Wall, M. C. Wani, A. W. Nicholas, L. F. Liu, R. Silber, M. Potmesil

**Technical Comments**

1049 Is Regulation of a Chloride Channel in Lymphocytes Affected in Cystic Fibrosis?: G. Hagiwara, M. Krouse, U. Möller, J. Wine; P. Gardiner

Sphingomyelin Synthase and PKC Activation: R. Y. Hampton and O. H. Morand; Y. A. Hannon


**AAAS Meetings**

1052 Annual Meeting: Advance Registration Form; Hotel Registration Form • Plenary Lectures • Three-Day Seminars • Short Courses • Symposia, Technical Sessions, and Workshops • General Meeting Information

**Meetings**

1060 Gordon Research Conferences • 1990 Schedule

**Book Reviews**

1062 The Financing of Biomedical Research, reviewed by R. A. Rentig • Greenhouse Warming, J. Firor • Minorities and Cancer, G. M. Swanson • Mechanistic Principles of Enzyme Activity; Environmental Influences and Recognition in Enzyme Chemistry, R. G. Matthews • Order and Chaos in Nonlinear Physical Systems, N. Abraham • Books Received

**Products & Materials**

1067 Hydrogen Generator • Chemical and Spectra Databases • Gel Dryer Produces Clear Bands • Laboratory Freezer • Protein Sequencing • Recombinant DNA Molecule Drawing Software • Slide Carousel Carrier • Literature
Editor's Summary

This copy is for your personal, non-commercial use only.

**Article Tools**
Visit the online version of this article to access the personalization and article tools:
http://science.sciencemag.org/content/246/4933

**Permissions**
Obtain information about reproducing this article:
http://www.sciencemag.org/about/permissions.dtl