NEWS & COMMENT

A Slippery Slope for Science 1796
Spring Rush on Capitol Hill 1797

Mad Cow Disease: Scant Data 1798
Cause Widespread Concern

Sequencers Split Over Data Release 1798

Earthquake Prediction: Chair Quits Japan Panel in Protest 1799

New Anticoagulant Prompts Bad Blood Between Partners 1800
Clotting Controversy 1800

Diversity Takes a Student Body Blow 1801

Ukraine: Cash-Starved Researchers to Undergo Trial by Peer Review 1802
Research Stars Use Ingenuity to Survive 1803

RESEARCH NEWS

Superconductivity Turns 10 1804

A Piece of the Dinosaur Killer Found? 1806

New Neurons Use “Lookouts” to Navigate Nervous System 1807

DEPARTMENTS

THIS WEEK IN SCIENCE 1785
EDITORIAL 1787

LETTERS 1789


BOOK REVIEWS 1814

SCIENCESCOPE 1795
RANDOM SAMPLES 1813

AAAS NEWS & NOTES 1884
PRODUCTS & MATERIALS 1885
QUARTERLY INDEX 1887

Board of Reviewing Editors

Frederick W. Alt
Don L. Anderson
Michael Ashburner
Stephen J. Benkovic
Alan Bernstein
David E. Bloom
Piet Borst
Henry R. Bourne
Michael S. Brown
James J. Bull
Kathryn Calame
Dennis W. Choi

David Clapham
Adrienne E. Clarke
John M. Coffin
P. Fleming Crnin
Paul J. Crutzen
James E. Dahlberg
Robert Desimone
Paul T. Englund
G. Ertl
Richard G. Fairbanks
Douglas T. Fearon
Harry A. Fozzard
Roger I. M. Glass
Stephen P. Goff
Peter N. Goodfellow
Corey S. Goodman
Peter Gruss
Philip G. Hanawalt
Nobutaka Hirokawa
Tomas Hökfelt
Tasuku Honjo
Suzan D. Iversen
Eric F. Johnson
Stephen M. Kosslyn
Michael LaBarbera
Nicole Le Douarin
Charles S. Levinson III
Harvey F. Lodish
Richard Losick
Reinhard Lührmann
Ruth Lynden-Bell
Seth Marder
Diane Mathis
Anthony R. Means
Shigetada Nakanishi
Kim Nasmyth
Roger A. Nicoll
Staffan Nomark
Stuart L. Pimm
Yoshioji Pocker
Ralph S. Quatrano
Martin Raff
V. Remagnetto
Douglas C. Rees
T. M. Rice
David C. Rubin
Erikki Ruusuvirta
Gottfried Schatz
Jozef Schell
Ronald H. Schwartz
Temenese J. Sajnowski
Thomas A. Steitz
Michael P. Streyker
Tomoyuki Takahashi
Masatoshi Takeichi
Keiji Tanaka
Robert T. N. Tjian
Yoshinori Tokura
Emil R. Uren
Geerat J. Vermeij

Bert Vogelstein
Arthur Weiss
Zena Werb
George M. Whitesides
Owen N. Witte
William A. Wulf
Optical micrograph (crossed polarizers) showing parallel dark rods of FeTiO$_3$ (up to 20 micrometers long) that precipitated from solution in the mineral olivine during tectonic transport of a piece of mantle to a location high in the Swaz Alps. These rods formed under high pressure at depths greater than 300 kilometers, indicating profound subduction of continental rocks after the collision of Africa and Europe and their return to the surface carrying this piece of mantle. See page 1841 and News story on page 1811. [Image: L. Dobrzynietska, H. W. Green II, and S. Wang]

**RESEARCH ARTICLE**

**Interaction Between Wingless and Notch Signaling Pathways Mediated by Dishevelled**

J. D. Axelrod, K. Matsuno, S. Artavanis-Tsakonas, N. Perrimon

**REPORTS**

**Isolation, Structure, and Electronic Calculations of the Heterofullerene Salt K$_3$C$_6$N**


**The Elasticity of a Single Supercoiled DNA Molecule**

T. R. Strick, J.-F. Allemand, D. Bensimhon, A. Bensimhon, V. Croquette

**Late Cretaceous Oceans and the Cool Tropic Paradox**

S. D'Hondt and M. A. Arthur

**Alpe Arami: A Peridotite Massif from Depths of More Than 300 Kilometers**

L. Dobrzynietska, H. W. Green II, and S. Wang

**Constraints on Rates of Granitic Magma Transport from Epipod Dissolution Kinetics**

A. D. Brandon, R. A. Creaser, T. Chacko

**Enhancement of Solution NMR with Laser-Polarized Xenon**

G. Navon, Y.-Q. Song, T. Rööm, S. Appelt, R. E. Taylor, A. Pines

**Caste-Selective Pheromone Biosynthesis in Honeybees**

E. Plettnner, K. N. Slessor, M. L. Winston, J. E. Oliver

**Identification of D-Peptide Ligands Through Mirror-Image Phage Display**


**Inhibition of HIV-1 Replication in Lymphocytes by Mutants of Rev Cofactor ELF-5A**


**Translational Control of p27$^{kip1}$**

L. Hengst and S. I. Reed

**Altered Sensory Processing in the Somatosensory Cortex of the Mouse Mutant Barreless**


**A Neural Tetraspanin, Encoded by late Bloomer, That Facilitates Synapse Formation**

C. C. Kopczynski, G. W. Davis, C. S. Goodman

**Replay of Neuronal Firing Sequences in Rat Hippocampus During Sleep Following Spatial Experience**

W. E. Skaggs and B. L. McNaughton

**An RNA Polymerase II Elongation Factor Encoded by the Human ELL Gene**

A. Shiliatifard, W. S. Lane, K. W. Jackson, R. C. Conaway, J. Conaway

**Failure of the Cystic Fibrosis Transmembrane Conductance Regulator to Conduct ATP**


**TECHNICAL COMMENTS**

**Testing for Bias in the Climate Record**


## AAAS Board of Directors

- Rita R. Colwell
  - Retiring President
- Jane Lubchenco
  - President
- Mildred S. Dresselhaus
  - President-elect
- Sheila Jasanooff
- William A. Lester Jr.
- Simon A. Levin
- Marcia C. Limn
- Michael J. Novacek
- Anna C. Roosevelt
- Jean E. Taylor
- Nancy S. Wexler
- William T. Golden
- Treasurer
- Richard S. Nicholson
  - Executive Officer

*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. 484440) paid at Washington, DC, and additional mailing offices. Copyright © 1996 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): $102 (US$55 allocated to subscription). Domestic institutional subscription (51 issues): $250. Foreign postage extra: Mexico, Caribbean (surface mail) $55; other countries (air assist delivery) $90. First class, airmail, student, and emeritus rates on request. Canadian rates with GST available upon request, GST #1254 8112. Printed in the U.S.A.

Change of address: allow 4 weeks, giving old and new addresses and 8-digit account number. Postmaster: Send change of address to Science, P.O. Box 1811, Danbury, CT 06813-1811. Single copy sales: $7.00 per issue prepaid includes surface postage; 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 $4.00 per article is paid directly to CCC, 222 Rosewood Drive, Danvers, MA 01923. The identification code for *Science* is 0036-8075/83 $4.00. Science is indexed in the Reader's Guide to Periodical Literature and in several specialized indexes.

**Maintaining Diversity in Science**

1901

Women and Minorities '96

Facing the Big Chill in Science • Gender, Race, and Class • Backlash Strikes at Affirmative Action Programs • The Affirmative Action Debate • Computer Culture Deflects Women and Minorities • The First 'Computers' • Social Science: Researchers Find Feminization a Two-Edged Sword • Minorities at the Starting Gate • Diversity Counts: Recent Data on Women and Minorities

Advice from the Top

Anne C. Petersen: Learning the Trade • Secrets • Lydia Villa-Komaroff: Spinning Setbacks Into Success • David Satcher: Reaching Out and Moving Up • Yolanda Moses: With a Little Help From Her Friends

THE AAAS WILL BE MOVING ITS HEADQUARTERS ON 15 APRIL 1996 TO 1200 NEW YORK AVE., NW, WASHINGTON, DC 20005