

1472 This Week in *Science*

Editorial

1473 Women in Science

Perspective

1475 PRC Science Students and Scholars Abroad: D. S. ZINBERG

Letters

1477 Behavioral Research and AIDS Prevention: W. W. DARROW ■ Significance of Frog in Amber: G. C. MAYER AND J. D. LAZELL, JR.; G. O. POINAR, JR., AND D. C. CANNATELLA

News & Comment

1479 Fixing NIH: The 110% Solution

1481 Doubts Over Fermat Proof

1482 *Briefing*: Estimate of Foreign SSC Funds Draws Fire ■ Fail-Safe Mechanism on NSF Future Funding ■ More Money for Costa Rica's Parks ■ Translation Service Throws in the Towel ■ Bonds Required for Tests ■ Ionson to Leave SDI Organization

1483 NAE Elects New Members

1484 Report Asks Upgrade of Military R&D Labs

1485 A Rebel Without a Cause of AIDS

Research News

1489 Stratospheric Ozone Is Decreasing ■ The Latest on the Antarctic Hole ■ A Cautionary Note

1491 Calculus: Crisis Looms in Mathematics' Future

1493 Symposium Focuses on Genes in Development: Collagen Gene Mutations Cause Brittle Bones ■ Gap Junctions Needed for Development ■ Dissecting Receptor Structures

Articles

1501 Formation of the Rocky Mountains, Western United States: A Continuum Computer Model: P. BIRD

1508 Evolving Legal Standards for the Admissibility of Scientific Evidence: B. BLACK

1513 Dynamic Pattern Generation in Behavioral and Neural Systems: G. SCHÖNER AND J. A. S. KELSO

- 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. Now combined with *The Scientific Monthly*® Copyright © 1988 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): \$65. Domestic institutional subscription (51 issues): \$98. Foreign postage extra: Canada \$32, other (surface mail) \$27, air-surface via Amsterdam \$65. First class, airmail, school-year, and student rates on request. Single copies \$3.00 (\$3.50 by mail); back issues \$4.50 (\$5.00 by mail); Biotechnology issue, \$5.50 (\$6 by mail); classroom rates on request; Guide to Biotechnology Products and Instruments \$16 (\$17 by mail). 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 \$0.10 per page is paid directly to CCC, 21 Congress Street, Salem, Massachusetts 01970. The identification code for Science is 0036-8075/83 \$1 + .10. Postmaster: Send Form 3579 to Science, 1333 H Street, NW, Washington, DC 20005. 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.



COVER Harris' hawk family in the Los Medanos area of New Mexico. These young individuals, atypical of most birds, will remain in their natal area and associate with their parents and siblings for up to 3 years. This social behavior, to some extent, is linked to the formation and success of cooperative hunting "parties." See page 1525. [David A. Ponton, Mountain Route Box 93, Jemez Spring, NM 87025]

Reports

- 1521 Game Depletion Hypothesis of Amazonian Adaptation: Data from a Native Community: W. T. VICKERS
- 1523 Application of Two-Step Laser Mass Spectrometry to Cosmogenochemistry: Direct Analysis of Meteorites: J. H. HAHN, R. ZENOBI, J. L. BADA, R. N. ZARE
- 1525 Cooperative Hunting in Harris' Hawks (*Parabuteo unicinctus*): J. C. BEDNARZ
- 1528 A New Order of Tertiary Zalambdodont Marsupials: M. ARCHER, S. HAND, H. GODTHELP
- 1531 The DNA-Binding Properties of the Major Regulatory Protein $\alpha 4$ of Herpes Simplex Viruses: N. MICHAEL, D. SPECTOR, P. MAVROMARA-NAZOS, T. M. KRISTIE, B. ROIZMAN
- 1534 Reshaping Human Antibodies: Grafting an Antilysozyme Activity: M. VERHOEYEN, C. MILSTEIN, G. WINTER
- 1536 Peroxisomal Membrane Ghosts in Zellweger Syndrome—Aberrant Organelle Assembly: M. J. SANTOS, T. IMANAKA, H. SHIO, G. M. SMALL, P. B. LAZAROW
- 1539 The Elastin Receptor: A Galactoside-Binding Protein: A. HINEK, D. S. WRENN, R. P. MECHAM, S. H. BARONDES
- 1541 Selection of Amino Acid Sequences in the Beta Chain of the T Cell Antigen Receptor: S. M. HEDRICK, I. ENGEL, D. L. McELIGOTT, P. J. FINK, M.-L. HSU, D. HANSBURG, L. A. MATTIS

Book Reviews

- 1545 The Statue Within, *reviewed by* G. S. STENT ■ Consciousness and the Computational Mind, P. N. JOHNSON-LAIRD ■ The Biology and Evolution of Lungfishes, G. V. LAUDER ■ The Neural and Molecular Bases of Learning ■ Books Received

Products & Materials

- 1551 FTIR Spectrometer ■ Plotting Software ■ Protein G ■ Compact pH Meter ■ Peptide-Synthesis System ■ Citation Index on Compact Disk ■ Culture System for Microscopy ■ Literature

Author Index to Volume 239 is found on pages I–X
Information for Contributors is found on pages XI–XII

Board of Directors

Sheila E. Widnall
*Retiring President,
Chairman*
Walter E. Massey
President
Richard C. Atkinson
President-elect

Harold Amos
Floyd E. Bloom
Mary E. Clutter
Eugene H. Cota-Robles
Mildred S. Dresselhaus
Beatrice A. Hamburg
Donald N. Langenberg
Frank von Hippel
William T. Golden
Treasurer
Alvin W. Trivelpiece
Executive Officer

Editorial Board

Elizabeth E. Bailey
David Baltimore
William F. Brinkman
Philip E. Converse
Joseph L. Goldstein
F. Clark Howell
James D. Idol, Jr.
Leon Knopoff
Oliver E. Nelson
Helen M. Ranney
David M. Raup
Howard A. Schneiderman
Larry L. Smarr
Robert M. Solow
James D. Watson

Board of Reviewing Editors

John Abelson
Qais Al-Awqati
Don L. Anderson
Stephen J. Benkovic
Floyd E. Bloom
James J. Bull
Charles R. Cantor
Ralph J. Cicerone
John M. Coffin
Bruce F. Eldridge
Paul T. Englund
Theodore H. Geballe
Roger I. M. Glass
Stephen P. Goff

Robert B. Goldberg
Corey S. Goodman
Jack Gorski
Stephen J. Gould
Richard M. Held
Gloria Heppner
Eric F. Johnson
Konrad B. Krauskopf
Charles S. Levings III
Richard Losick
Karl L. Magleby
Philippa Marrack
Joseph B. Martin
John C. McGiff
Mortimer Mishkin
Jiri Novotny
Gordon H. Orans

Carl O. Pabo
John S. Pearce
Yeshayau Pocker
Jean Paul Revel
James E. Rothman
Daniel V. Santi
Thomas C. Schelling
Ronald H. Schwartz
Otto T. Solbrig
Robert T. N. Tjian
Virginia Trimble
Geerat J. Vermeij
Harold Weintraub
Irving L. Weissman
George M. Whitesides
Owen N. Witte
William B. Wood

Science

239 (4847)

Science **239** (4847), 1471-1551.

ARTICLE TOOLS

<http://science.sciencemag.org/content/239/4847>

PERMISSIONS

<http://www.sciencemag.org/help/reprints-and-permissions>

Use of this article is subject to the [Terms of Service](#)

Science (print ISSN 0036-8075; online ISSN 1095-9203) is published by the American Association for the Advancement of Science, 1200 New York Avenue NW, Washington, DC 20005. 2017 © The Authors, some rights reserved; exclusive licensee American Association for the Advancement of Science. No claim to original U.S. Government Works. The title *Science* is a registered trademark of AAAS.