NEWS

Astronomy’s Optical Illusion
ESA Plans for the Early 21st Century
Genome Research: Plans for Tunisian Institute Move Ahead
Rustic Site Draws a Crowd to Monitor Global Warming
Powerful New Detectors Spy on Strange Spinning Nuclei
A New Theory of Insect Wing Origins Takes Off
Structural Biology: X-Ray Movies Start to Capture Enzyme Molecules in Action
Ernst Mayr Wins the Japan Prize

NOBEL PRIZES

Eight Get the Call to Stockholm
Medicine: A Signal Award for Discovering G Proteins
Chemistry: Snaring Elusive Quarry—And a Prize for Physics: Neutron Cartographers Lauded for Mapping Materials
Economics: Game Theory’s Winning Hands

PERSPECTIVES

Cuprate Superconductors: A Broken Symmetry in Search of a Mechanism
S. Chakravarty

Chromosome End Games
T. R. Cech

ARTICLE

The Magnitude 6.7 Northridge, California, Earthquake of 17 January 1994
Scientists of the U.S. Geological Survey and the Southern California Earthquake Center

RESEARCH ARTICLES

Removal of Stratospheric O3 by Radicals: In Situ Measurements of OH, HO2, NO, NO2, ClO, and BrO

TLC1: Template RNA Component of Saccharomyces cerevisiae Telomerase
M. S. Singer and D. E. Gottschling

DEPARTMENTS

THIS WEEK IN SCIENCE
EDITORIAL

Supplies of Oil and Natural Gas

LETTERS

Sources of Dioxin: T. G. Spiro and V. M. Thomas; B. Dudley and P. Costner; L. E. Fink; P. H. Abelson

* The D: Receptor Gene: J. C. Crabbe, J. K. Belknap, K. J. Buck

SCIENCESCOPE

RANDOM SAMPLES

BOOK REVIEWS

Stalin and the Bomb, reviewed by V. Zubok • Global Marine Biological Diversity, S. R. Carpenter • Ecological Genetics, R. E. Michod • Vignettes

AAAS MEETING 1995

1995 AAAS Annual Meeting and Science Innovation Exposition, 16–21 February 1995, Atlanta Expanded Program • Seminar • Employment Exchange • Advance Registration Form • Hotel Reservation Form

PRODUCTS & MATERIALS

Board of Reviewing Editors

Frederick W. Alt
Don L. Anderson
Michael Ashburner
Stephen J. Benkovic
David E. Bloom
Floyd E. Bloom
Peter Boret
Henry R. Bourne
Michael S. Brown
James J. Burtt
Kathryn Calame
C. Thomas Caskey
Dennis W. Choi
John M. Coffin
F. Rannfors
Paul J. Crutzen
James E. Dahlgren
Robert Desmin
Bruce F. Eldridge
Paul T. Englert
Richard G. Fairbanks
Douglas T. Pearsen
Harry A. Fozard
Klaus Friedrich
Theodore H. Geise
John C. Gerhart
Roger L. M. Glass
Stephen P. Goff
Peter N. Goodfellow
Corey S. Goodman
Ira Herskowitz
Eric F. Johnson
Stephen M. Kosslyn
Michael LaBarbera
Nicole De Duve
Charles S. Leavens
Alexander Levkowitz
Harvey F. Lodish
Richard Lorek
Reinhard Lührmann
Diane Methe
Anthony R. Means
Shigetada Namikawa
Roger A. Nicoll
Stuart L. Pimm
Yoshioh Pockey
Dennis A. Powers
Sajal S. Roy
V. Ramana
Douglas C. Rees
T. M. Rice
David C. Rubie
Erik Ruelalai
Gottfried Schatz
Josef Schell
Ronald H. Schwartz
Terence J. Sejnowski
Ellen Solomon
Thomas A. Steitz
Michael P. Streyker
Robert T. N. Tian
Emir R. Unang
Georat J. Vermej
Bert Vogelstein
Harold Weintraub
Arthur Weiss
Zena Werb
George M. Whitesides
Owen N. Witte
William A. Wulf

356
Too many telescopes?

368

342

SCIENCE • VOL. 266 • 21 OCTOBER 1994

Downloaded from http://science.sciencemag.org/ on April 4, 2017
Unity in Diversity is the theme for the 1995 AAAS Annual Meeting and Science Innovation Exposition in Atlanta from 16 to 21 February. For the first time, the interdisciplinary traditions of the annual meeting will be blended with the biomedical research focus of the Science Innovation meeting. Researchers from every facet of science will convene to exchange ideas, publicize new knowledge, and discuss what is to come, not only within their disciplines but with regard to science in the context of society. See page 471 for a complete program with registration and hotel forms.

**REPORTS**

Temporally Unstable Recurrence of Earthquakes Due to Breaks in Fractal Scaling J. M. Clooskey and C. J. Bean

Paleomagnetic Record of a Geomagnetic Field Reversal from Late Miocene Mafic Intrusions, Southern Nevada C. D. Ratcliff, J. W. Geissman, F. V. Perry, B. M. Crowe, and P. K. Zeitler

Marked Post-18th Century Environmental Change in High-Arctic Ecosystems M. S. V. Douglas, J. P. Smol, W. Blake Jr.

Strength of Diamond D. J. Weidner, Y. Wang, and M. T. Vaughan


Surface-Skimming Stoneflies: A Possible Intermediate Stage in Insect Flight Evolution J. H. Marden and M. G. Kramer


Internal Lysine Palmitoylation in Adenylate Cyclase Toxin from Bordetella pertussis M. Hackett, L. Guo, J. Shabanowitz, D. F. Hunt, and E. L. Hewlett

Epidermal Cell Fate Determination in Arabidopsis: Patterns Defined by a Steroid-Inducible Regulator A. M. Lloyd, M. Schena, V. Walbot, and R. W. Davis


Rescue of T Cell–Specific V(D)J Recombination in SCID Mice by DNA-Damaging Agents J. S. Danska, F. Piumio, C. J. Williams, O. Huner, J. E. Dick, and C. J. Guidos

Folding of VSV G Protein: Sequential Interaction with BiP and Calnexin C. Hammond and A. Helenius


**TECHNICAL COMMENTS**

Identifying Clonidine-Displacing Substance D. Atlas; D. J. Reis, G. Li, S. Regunathan, C. J. Barrow, R. Cooper

T Cells and Suppression in Vitro B. Scott, J. Kaye, D. Lo; R. Lechler and G. Lombardi

**AAAS Board of Directors**

Elise E. Clark, Retiring President, Chairman

Francisco J. Ayala, President

Rita R. Colwell, President-elect

William A. Lester Jr., Simon A. Levin, Anna C. Roosevelt


**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 © 1994 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): $92 ($50 allocated to subscription), Domestic institutional subscription (51 issues): $215. Foreign postage extra: Mexico, Caribbean (surface mail) $50; other countries (air assist delivery) $95. First class, airmail, student and emeritus rates on request. Canadian rates with GST available upon request, GST #1254 88122. Printed in the U.S.A.

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 2033, Marion, OH 43305-2033. Single copy sales: $8.00 per issue prepaid includes surface postage; Guide to Biotechnology Products and Instruments, $20. Bulk rates on request. Authorization to photocopy material for internal or personal use, but not for resale without permission. For permission, see 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, MA 01970. The identification code for Science is 0036-8075/94 $1 + .10. Science is indexed in the Reader's Guide to Periodical Literature and in several specialized indexes.