NEWS & COMMENT
Court Orders 'Sharing' of Data When the Source Is a Suspect 284
Jenny Harrison Finally Gets Tenure in Math at Berkeley 286
Spotted Owl Plan Kindles Debate on Salvage Logging 287
SSC: A Senate Victory Would Turn the Tide After House Defeat 288
NSF's New Random Inspections Draw Fire 289
RESEARCH NEWS
Evidence for Homosexuality Gene 291
Even Warm Climates Get the Shivers 292

DEPARTMENTS
THIS WEEK IN SCIENCE 273
EDITORIAL 275
A Scientific Approach to Governing
LETTERS 277
SCIENCESCOPE 283

ARTICLES
Insect Diversity in the Fossil Record C. C. Labandeira and J. J. Sepkoski, Jr. 310
A Cold Suboceanic Mantle Belt at the Earth's Equator E. Bonatti, M. Seyler, N. Sushevskaya 315

RANDOM SAMPLES 290
Kinsey Institute Unhappy Again • Zoo Horse May Have Call of the Wild • Ozone Prediction Hits It Right on the Nose • Rice Researchers Score Once More

BOOK REVIEWS 368
Charles Sanders Peirce, reviewed by R. B. Westbrook • Affect and Accuracy in Recall, M. A. Conway • Heavy Flavours, H. E. Haber • Other Books of Interest • Books Received • Vignettes

PRODUCTS & MATERIALS 372

Board of Reviewing Editors

Downloaded from http://science.sciencemag.org/ on April 13, 2017
Spindle diversity diagram for Heteroptera (true bugs) from 250 million years ago to the present, representing 39 families at its widest extent; a typical heteropteran adult (stink bug) is depicted at the top. Data from the fossil record indicate that modern insect diversity results from low extinction rates rather than high origination rates. See page 310. Insets: early Oligocene insects—from Baltic amber, a scuttle fly (left) and an ant (bottom), and from the Flonissant beds, a March fly (right). [Illustration: Finnegan Marsh]

RESEARCH ARTICLE


Assessing the Quality of Solution Nuclear Magnetic Resonance Structures by Complete Cross-Validation A. T. Brünger, G. M. Clore, A. M. Gronenborn, R. Saffrich, M. Nilges


Experimental Realization of the Covalent Solid Carbon Nitride C. Niu, Y. Z. Lu, C. M. Lieber

Interlayer Tunneling and Gap Anisotropy in High-Temperature Superconductors S. Chakravarty, A. Sudbø, P. W. Anderson, S. Strong

How Fish Power Swimming L. C. Rome, D. Swank, D. Corda


Redundant Mechanisms of Calcium-Induced Calcium Release Underlying Calcium Waves During Fertilization of Sea Urchin Eggs A. Galione, A. McDougall, W. B. Busa, N. Willmott, I. Gillot, M. Whitaker

Calcium Mobilization by Dual Receptors During Fertilization of Sea Urchin Eggs H. C. Lee, R. Aarhus, T. F. Walser


Cellular Mechanisms of a Synchronized Oscillation in the Thalamus M. von Krosigk, T. Bal, D. A. McCormick

Waves of calcium release in sea urchin eggs

AAAS Board of Directors

F. Sherwood Rowland Relining President, Chairman Eloise E. Clark President Francisco J. Ayala President-elect Robert A. Frosch Florence P. Haseltine William A. Lester, Jr.

Indicates accompanying feature

Copyright 1993 AAAS. All rights reserved.

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. 484660) paid at Washington, DC, and additional mailing offices. Copyright © 1993 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): $87 ($47 allocated to subscription). Domestic institutional subscription (51 issues): $205. 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 #125488122. 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: $6.00 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 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 $.10 per page is paid directly to CCC, 27 Congress Street, Salem, MA 01970. The identification code for Science is 0036-8075/93 $1 + .10. Science is indexed in the Reader’s Guide to Periodical Literature and in several specialized indexes.