A Shaky Consensus on Misconduct 604
E-Mail Links Science's Young and Frustrated
Canadian Panel Calls for More Women 607
A New Wrinkle in Retin-A Dispute 607
Hot One From Hubble 607
Swiss Drug Giants Seek Antidote to Activists

RESEARCH NEWS
COBE Finds the Bumps in the Big Bang 612
Mapping a Galaxy's Hungry Heart 613
Up Close and Personal With DNA 613
A Dubious Battle to Save the Kemp's Ridley Sea Turtle 614
Virtual Acoustics Puts Sound in its Place 616

DEPARTMENTS
THIS WEEK IN SCIENCE 591
EDITORIAL 593
DNA Fingerprinting and Eyewitness Testimony
LETTERS 598
Aerosols and Global Warming; W. W. Kellogg; R. J. Charlson, S. E. Schwartz; J. M. Hales, R. D. Cess, J. A. Coakley, Jr., J. E. Hansen, D. J. Hofmann • Household Composition and Children's Income: J. R. Schaaf; V. R. Fuchs and D. M. Reklis • Eggs-actly: J. R. Gustafson; Editors

RANDOM SAMPLES 610
Liquidus Do the Quasocrystal Twist • Long Odds Against Landing a Math Job • Out of Adversity, New Clues to Prairie Diversity • Wanted: Digital or Analog • Fusion Reactor Infusion at Princeton, etc.

BOOK REVIEWS 680
Phytochemical Induction by Herbivores, reviewed by R. Fritz • Dolphin Societies, R. L. Gentry • Some Other Books of Interest • Books Received

PRODUCTS & MATERIALS 686

AAAS Board of Directors
Leon M. Lederman Retiring President, Chairman
F. Sherwood Rowland President
Eloise E. Clark President-elect
Mary Ellen Avery Treasurer
Francisco J. Ayala Executive Officer
William T. Golden Richard S. Nicholson Executive Officer

Board of Reviewing Editors

How not to save endangered species 614

PERSPECTIVES
Raising Water to New Heights
R. P. Rand

Shaking Arabidopsis thaliana
M. R. Sussman

Learning and endocytosis 638
Simulation of the reaction of nuclear waste glass with water. As the glass reacts, actinides concentrate as a stable mineral phase (blue areas) in the reacted glass and, during continued interaction with ground water, are released to solution as primary colloids. Models of nuclear repository integrity that fail to take colloid formation and transport into account may underestimate the potential for radioactivity release. See page 649. [Image: John K. Bates, Argonne National Laboratory]

ARTICLES

The Early Evolution of Eukaryotes: A Geological Perspective
A. H. Knoll

Mitochondrial Genetics: A Paradigm for Aging and Degenerative Diseases?
D. C. Wallace

RESEARCH ARTICLES

Solution Structure of a Calmodulin-Target Peptide Complex by Multidimensional NMR
M. Ikura, G. M. Clore, A. M. Gronenborn, G. Zhu, C. B. Klee, A. Bax

Modulation of an NCAM-Related Adhesion Molecule with Long-Term Synaptic Plasticity in Aplysia
M. Mayford, A. Barzilai, F. Keller, S. Schacher, E. R. Kandel

Serotonin-Mediated Endocytosis of apCAM: An Early Step of Learning-Related Synaptic Growth in Aplysia

Colloid Formation During Waste Form Reaction: Implications for Nuclear Waste Disposal
J. K. Bates, J. P. Bradley, A. Teetsov, C. R. Bradley, M. Buchholdt ten Brink

A Global Traveling Wave on Venus
M. D. Smith, P. J. Giensach, P. J. Schinder

Protein Solvation in Allosteric Regulation: A Water Effect on Hemoglobin
M. F. Colombo, D. C. Rau, V. A. Parsegian

An Origin of DNA Replication and a Transcription Silencer Require a Common Element
D. H. Rivier and J. Rine

Cloning and Expression in Yeast of a Plant Potassium Ion Transport System
H. Sentenac, N. Bonneau, M. Minet, F. Lacroute, J.-M. Salmon, F. Gaymard, C. Grignon

DNA Hydrolyzing Autoantibodies
A. M. Shuster, G. V. Gololobov, O. A. Kvashuk, A. E. Bogomolova, I. V. Smirnov, A. G. Gabibov

Multiple Intestinal Neoplasia Caused by a Mutation in the Murine Homolog of the APC Gene

Enhanced Degradation of the Ferritin Repressor Protein During Induction of Ferritin Messenger RNA Translation
L. S. Goessling, S. Daniels-McQueen, M. Bhattacharyya-Pakrasi, J.-J. Lin, R. E. Thach

Occurrence of Sialic Acids in Drosophila melanogaster
J. Roth, A. Kempf, G. Reuter, R. Schauer, W. J. Gehring

Modality-Specific Retrograde Amnesia of Fear
J. J. Kim and M. S. Fanselow

Microdomains of High Calcium Concentration in a Presynaptic Terminal
R. Llinás, M. Sugimori, R. B. Silver

COVER

SCIENCE • VOL. 256 • 1 MAY 1992

Covers traveling cloud patterns on Venus

Indicates accompanying News story or Perspective

® 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 number 484460) paid at Washington, DC, and additional mailing offices. Copyright © 1992 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): $195. 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 86122. 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, Manenz, OH 43055-2033. Single copy prices: $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, or the internal or personal use of specific clients, 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, MA 01970. The identification code for Science is 0036-8075/92 $1 + .10. 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 objectives 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, to advance education in science, and to increase public understanding and appreciation of the importance and promise of the methods of science in human progress.