LETTERS  
Electronic Publication: B. Lewin; J. Raben and L. H. Seiler; C. M. Goldstein;  
Health Problems of Colonists: D. R. Roberts  

EDITORIAL  
Long-Term Changes in the Chemical Industry  

ARTICLES  
Chemical Fossils: The Geological Fate of Steroids: A. S. Mackenzie et al.  
Frontiers in Crop Production: Chemical Research Objectives:  
H. Geissbühler, P. Brenneisen, H.-P. Fischer  

NEWS AND COMMENT  
Electronics Firms Plug into the Universities  
CMU’s Growing Corporate Connections  
A Battle Over Pesticide Data  
Briefing: France Boosts Biotechnology: Ethics Panel Looks at  
Human Gene Splicing: Humanities Association Goes Under;  
House Nixes Binary Program; Air Force General to Head JPL  
Tokyo’s Edge Over Detroit  

RESEARCH NEWS  
Cloud Seeding: One Success in 35 Years  
A New Treatment for Burn Victims  

AAAS NEWS  
Science, Engineering, and Developing Countries: D. Weiner; Board Sets  
Archives Policy; Information on Disabled Scientists Sought; Arctic Division  
To Meet in September; Major Policy Questions Explored in New Book; Board  
of Directors Calls for Strong Science Education Programs; Obituaries  

BOARD OF DIRECTORS  
D. ALLAN BROMLEY  
E. MARGARET BURBIDGE  
ANNA J. HARRISON  
LAWRENCE BOGORAD  
NANCIE L. GONZALEZ  
Retiring President, Chairman  
President  
President-Elect  
Edward E. David, Jr.  
David A. Hamburg  

CHAIRMEN AND SECRETARIES OF AAAS SECTIONS  
MATHEMATICS (A)  
Biology  
Chemistry (C)  
Astronomy (D)  
Felix E. Browder  
Donald A. Langer  
Charles G. Overberger  
Robert W. Dunlap  
Lynn Arthur Stein  
Rolf M. Sinclair  
William L. Jolly  
Donat G. Wentzel  
Eleanor J. Gibson  
Thomas C. Schelling  
Ei, N. Hibert  
Bert F. Green  
David L. Sills  
David L. Hull  
Astrid J. Sills  
David N. H. Pray  
S. H. G. Bruce  
Paul Goldhaber  
Louis A. Luzzi  
Marilyn C. Bracken  
Harold M. Fulmer  
Robert A. Wiley  
Madeline M. Henderson  

DIVISIONS  
ALASKA DIVISION  
PACIFIC DIVISION  
SOUTHWESTERN AND ROCKY MOUNTAIN DIVISION  

SCIENCE is published weekly on Friday, except the last week in December, by the American Association for the Advancement of Science, 1515 Massachusetts Avenue, NW, Washington, D.C. 20005. Second-class postage (publication No. 464440) paid at Washington, D.C., and at an additional entry. Copyright © 1982 by the American Association for the Advancement of Science. Domestic individual membership and subscription ($48). Domestic institutional subscription ($51 issues); $65. Foreign postage extra. Canada $24, other (surface mail) $27, air-surface via Amsterdam $55. First class, airmail, school-year, and student rates on request. Single copies $2.50 ($3 by mail); back issues $3 ($3.50 by mail); classroom rates on request. Change of address: allow 6 weeks, giving old and new addresses and seven-digit account number. Postmaster: Send Form 3579 to Science, 1515 Massachusetts Avenue, NW, Washington, D.C. 20005. Science is indexed in the Reader's Guide to Periodical Literature and in several specialized indexes.
BOOK REVIEWS

Biological Diversification in the Tropics, reviewed by B. B. Simpson; The Biology of Centipedes, R. L. Hoffman; Biological Clocks in Seasonal Reproductive Cycles, F. K. Stephan; To Fulfill a Vision, S. A. Bludman; John Tyndall, D. B. Wilson; Books Received .......................... 526

REPORTS

Magmatic Resurgence in Long Valley Caldera, California: Possible Cause of the 1980 Mammoth Lakes Earthquakes: J. C. Savage and M. M. Clark ........................................ 531
Ancient Maya Mercury: D. M. Pendergast ........................................ 533
Mus poschiavinus Y Chromosome in the C57BL/6J Murine Genome Causes Sex Reversal: E. M. Eicher et al. ........................................ 535
Intracellular Oxidation-Reduction State Measured in situ by a Multichannel Fiber-Optic Surface Fluorometer: A. Mayevsky and B. Chance ........................................ 537
Tumor Cell–Platelet Aggregation: Induced by Cathepsin B–Like Proteinase and Inhibited by Prostacyclin: K. V. Honn et al. ........................................ 540
Inhibition of Steroid Glycoalkaloid Accumulation by Arachidonic and Eicosapentaenoic Acids in Potato: E. C. Tjanos and J. A. Kuc ........................................ 542
Radiosensitization of Hypoxic Tumor Cells by Depletion of Intracellular Glutathione: E. A. Bump, N. Y. Yu, J. M. Brown ........................................ 544
Eumelanins and Pheomelanins: Characterization by Electron Spin Resonance Spectroscopy: R. C. Sealy et al. ........................................ 545
Variation in the Social Grouping Tendency of a Communal Web-Building Spider: G. W. Uetz, T. C. Kane, G. E. Straton ........................................ 547
Anatomical Plasticity and Sparing of Function After Spinal Cord Damage in Neonatal Cats: B. S. Bregman and M. E. Goldberger ........................................ 553
Presynaptic Location and Axonal Transport of β1-Adrenoreceptors in the Rat Brain: B. E. Levin ........................................ 555
Adrenal Medullary Enkephalin-Like Peptides May Mediate Opioid Stress Analgesia: J. W. Lewis et al. ........................................ 557

COVER

Area of Quaternary volcanism and faulting near Mammoth Lakes, California. See page 531.
Editor's Summary

This copy is for your personal, non-commercial use only.

**Article Tools**  Visit the online version of this article to access the personalization and article tools:
http://science.sciencemag.org/content/217/4559.citation

**Permissions**  Obtain information about reproducing this article:
http://www.sciencemag.org/about/permissions.dtl