947  This Week in Science

Editorial

949  Toxic Chemicals and Toxic Laws

Letters


ScienceScope

955  Dragging the Academy into EMF studies; duking it out over fetal tissue research; etc.

News & Comment

956  Is Homosexuality Biological?  ■  The Brain as Sexual Organ  ■  Is “Gender Gap” Narrowing?
961  Britain’s Crop Circles: Reaping by Whirlwind?
963  Budget Boost for Energy Science  ■  Trimming Research Flagship’s Sails

Research News

966  Heeding the Call of the Wild  ■  No Easy Lessons in Nature
969  Cognitive Sciences Explored in Chicago: Computer Vision Moving Closer to Reality  ■  Computer Learning Gets Mixed Grades
970  Atoms Do the Two-Step on Crystal Dance Floors
971  Taking Stock of Saddam’s Fiery Legacy in Kuwait  ■  Rainy Forecast for Gulf Area?

Perspective

973  Was Wright Right?  J. F. Crow

Articles

974  Developments in Automatic Text Retrieval: G. Salton
986  Mid-Ocean Ridges: Discontinuities, Segments and Giant Cracks: K. C. Macdonald, D. S. Scheirer, S. M. Carbotte

Research Articles

995  An Explanation for Neptune’s Ring Arcs: C. C. Porco
COVER This image of the enormous hydrogen coma surrounding Comet Halley was obtained by the Pioneer Venus Orbiter over a 5-day period in early February 1986. The image was constructed from over 9000 data points that were obtained as the spin axis of the rotating spacecraft was held fixed and the comet drifted across the instrument field of view. The false-color image, embellished by white constant-brightness contours, shows the Lyman-α brightness distribution at 1216 angstroms. The spacecraft is now headed toward a fiery death in the upper atmosphere of Venus in the fall of 1992. See page 1008. [Image processing by A. I. F. Stewart and M. R. Combi]

**Reports**


1010 Allerød—Younger Dryas Lake Temperatures from Midge Fossils in Atlantic Canada: I. R. Walker, R. J. Mott, J. P. Smol

1012 Global Text Matching for Information Retrieval: G. Salton and C. Buckley

1015 Wright's Shifting Balance Theory: An Experimental Study: M. J. WADE and C. J. Goodnight


1022 Differential Phosphorylation of the Transcription Factor Oct1 During the Cell Cycle: S. B. Roberts, N. Segil, N. Heintz


1028 Identification of a Site in Glutamate Receptor Subunits That Controls Calcium Permeability: R. I. Hume, R. DingleDine, S. F. Heinemann


1034 A Difference in Hypothalamic Structure Between Heterosexual and Homosexual Men: S. LeVay

**Technical Comments**

1037 Forensic DNA Tests and Hardy-Weinberg Equilibrium: J. E. Cohen, M. Lynch, C. E. Taylor; P. Green and E. S. Landers; B. Devlin, N. Risch, K. Roeder

**Inside AAAS**

1042 Expanding Views: The AAAS Minority Scholars Workshop on Ethics in Science
- Statement Adopted by the Workshop Participants
- Inner Vision
- In Memory of Roger Revelle
- In Brief
- Gold Rush Revisited

**Book Reviews**

1044 Exploring the Sun, reviewed by J. Meadows
- The Study of Change
- J. B. Henderson
- Crustacean Sexual Biology, A. H. Hines and L. D. Smith
- Books Received

---

**Board of Directors**
Donald N. Langenberg
Retiring President, Chairman
Leon M. Lederman
President
F. Sherwood Rowland
President-elect
Mary Ellen Avery
Francisco J. Ayala
Eugene H. Cota-Robles
Robert A. Frosch
Joseph G. Levin, Jr.
Florence P. Harrison
Jeanne M. Streeve
Warren M. Washington
William T. Golden
Treasurer
Richard S. Nicholson
Executive Officer

**Editorial Board**
Charles J. Arntzen
Elizabeth E. Bailey
David Baltimore
William F. Brimnes
E. Margaret Burbidge
Pierre-Gilles de Gennes
Joseph L. Goldstein
Mary L. Good
Harry B. Gray
John J. Hopfield
A. Clark Howell
Paul A. Marks
Yeates W. Neitz
Helen M. Ranney
Robert M. Solow
Edward C. Stone
James D. Watson

**Board of Reviewing Editors**
John Abelson
Frederick W. Alt
Don L. Anderson
Stephen J. Benkovic
David E. Bloom
Floyd E. Bloom
Henry R. Bourne
James J. Bull
Kathryn Calame
Charles R. Cantor
C. Thomas Caskey
Dennis W. Choi
Garland S. Clore
John M. Coffin
Bruce E. Ehrlich
Paul T. Englund
Fredric S. Fay

**Cover**

30 AUGUST 1991

TABLE OF CONTENTS 945

Downloaded from http://science.sciencemag.org/ on May 29, 2017