This Week in Science .................................................. 107

LETTERS
Genetic Engineering in Agriculture: R. K. Colwell, E. A. Norse, D. Pimentel, F. E. Sharpley, D. Simberloff, W. Szybalski, W. J. Brill; Reusable Oil Plants?: M. P. Mills ...................................................... 111

EDITORIAL
Engineering Education .................................................. 121

ARTICLES
The Very Long Baseline Array: K. I. Kellermann and A. R. Thompson ............................ 123
✓ Science and Technology in India: J. S. Rao .......................................................... 130
An RNA Processing Activity That Debranches RNA Lariats: B. Ruskin and M. R. Green .............. 135

NEWS AND COMMENT
Europe Tries a Strategic Technology Initiative ................................................... 141
Proliferation Treaty Hinders SDI ......................................................................... 142
Selenium Poisons Refuge, California Politics ...................................................... 144
Polish Universities Face Crackdown .................................................................. 146
NIH Role in Biotechnology Debated .................................................................. 147
Supercomputer Restrictions Pose Problems for NSF, Universities ....................... 148
Briefing: NRC Committee Blasts Immigration Statistics; Fresh Data on Stale Air ............... 149

RESEARCH NEWS
Putting the Human Genome on the Map ......................................................... 151
Patterns and Process in Life’s History ............................................................. 151

BOOK REVIEWS
Pattern Formation, reviewed by P. B. Green; Late Pleistocene History of

BOARD OF DIRECTORS
David A. Hamburg, President; Gerard Piel, President-Elect; Lawrence Bogorad, President-Elect; Robert W. Berliner, Mildred Dresselhous; Donald N. Langenberg, Dorothy Nelkin

HAIRED AND EXECUTIVES OF AAS SESSIONS

MATHEMATICS (A)
Daniel Zelinsky
Lynn Arthur Stein

PHYSICS (B)
Ralph O. Simmons
Rolf M. Sinclair

CHEMISTRY (C)
P. R. Roy
Jeanne M. Shreve

ASTRONOMY (D)
David Morrison
John E. Gafford

PSYCHOLOGY (J)
John S. Lacey
William N. Dembs

SOCIAL, ECONOMIC, AND POLITICAL SCIENCES (K)
David Mechanic
David L. Sils

HISTORY AND PHILOSOPHY OF SCIENCE (L)
Edward Grant
Arthur L. Norberg

ENGINEERING (M)
Henry McGee
W. Edward Lee

EDUCATION (O)
John F. Schaff
Joseph D. Novak

DENTISTRY (R)
Gordon H. Rovestad
Harold M. Fullmer

PHARMACOLOGICAL SCIENCES (S)
Edward G. Rippie
Betty-an Holmer

INFORMATION, COMPUTING, AND COMMUNICATION (T)
Karen B. Levitan
Elliot J. Siegel

DIVISIONS

ARCTIC DIVISION
Robert White President
Glenn E. Weller Executive Secretary

CARIBBEAN DIVISION
Juan A. Bonnet, Jr. President

PACIFIC DIVISION
Lucy Garper Secretary-Treasurer

ADMINISTRATION
Walter Gardner President

Alan E. Levine Executive Director

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. 454290) paid at Washington, D.C., and at an additional entry. Now combined with The Scientific Monthly. Copyright © 1985 by the American Association for the Advancement of Science. Domestic individual membership subscription (51 issues): $60. Domestic institutional subscription (51 issues): $65. Foreign postage extra: Canada $24, other (surface mail) $5, air service via Amsterdam $65. First class, airmail, school-year, and student rates on request. Single copies $2.50 ($1 by mail); back issues $3 ($3.50 by mail); Biological Sciences, $5 ($5.50 by mail); reprint rates on request. Change of address: allow 6 weeks, giving old and new addresses and seven-digit account number. 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 $0.10 per page is paid directly to CCC, 27 Congress Street, Salem, Massachusetts 01970. The identification code for Science is 0036-8075/05 $1 10.00 © 2005. Science is indexed in the Reader's Guide to Periodical Literature and in several specialized indexes.
Northeastern New England and Adjacent Quebec, E. H. Muller; Antarctic Ecology, P. K. Dayton; Neural Mechanisms of Startle Behavior, T. J. Carew; Books Received .................................................... 156

REPORTS

Near-Earth Asteroids: Possible Sources from Reflectance Spectroscopy: L. A. McFadden, M. J. Gaffey, T. B. McCord .......................................................... 160

Phytoplankton Blooming Off the U.S. East Coast: A Satellite Description: G. B. Brown et al. .................................................................................................................. 163

A Large Deletion Within the T-Cell Receptor Beta-Chain Gene Complex in New Zealand White Mice: B. L. Kotzin, V. L. Barr, E. Palmer ........................................ 167

Discovery of a Predicted DNA Knot Substantiates a Model for Site-Specific Recombination: S. A. Wasserman, J. M. Dungan, N. R. Cozzarelli .............................. 171

Prostacyclin Synthesis Induced in Vascular Cells by Interleukin-1: V. Rossi, F. Breviario, P. Ghezzi, E. Dejana, A. Mantovani ............................................................. 174

Inhibition of Interferon-Gamma May Suppress Allograft Reactivity by T Lymphocytes in Vitro and in Vivo: S. Landolfo et al. ................................................................. 176

Diazepam-Binding Inhibitor: A Neuropeptide Located in Selected Neuronal Populations of Rat Brain: H. Alho et al. ................................................................. 179


Staphylococcal Enterotoxin A Is Encoded by Phage: M. J. Betley and J. J. Mekalanos ......................................................................................................................... 185

Localized Control of Ligand Binding in Hemoglobin: Effect of Tertiary Structure on Picosecond Geminate Recombination: J. M. Friedman et al. ................ 187

Expression of Two Variant Surface Glycoproteins on Individual African Trypanosomes During Antigen Switching: K. M. Esser and M. J. Schoenbechler ............................... 190

Insect Resistance to the Biological Insecticide Bacillus thuringiensis: W. H. McGaughey ...................................................................................................................... 193

Technical Comments: Androgens and Prenatal Alcohol Exposure: S. B. Sparber; R. F. McGivern ................................................................. 195

Knot with six crossings is depicted in this Roman bas relief from about the third century A.D. The identical knot form was observed in electron micrographs of DNA and the information from it can be used to postulate mechanisms of genetic recombination. See page 171. [From the private collection of Ilya Prigogine, Center for Statistical Mechanics and Thermodynamics, University of Texas, Austin 78712]