NEWS & COMMENT

The Genome Project: Life After Watson 956
A Standing Ovation From the Troops
Britain Plans Large-Scale Sequencing Center

Peer Review Catches Congressional Flak 959
Did OSI Rewrite History? 959
What Should It Take to Join Science's Most Exclusive Club? 960
New Academy Members 961

RESEARCH NEWS 964

Looking Glass Chemistry
Government Smiles on One-Handed Drugs
HIV Comes in Five Family Groups
Giving Personal Magnetism a Whole New Meaning
Hot Rumors, Blue Light, and Modern Art
Shake Up Frisco

‘Transparent’ Proofs Help Solve Opaque Problems 970
Sightseeing at a Black Hole Gets Easier 971

DEPARTMENTS

THIS WEEK IN SCIENCE 943
EDITORIAL 945
LETTERS 949


PERSPECTIVES 972

Giant Magnetoresistance in Magnetic Layered and Granular Materials
P. M. LEVY

Dendritic Spines: Convergence of Theory and Experiment
C. KOCH, A. ZADOR, T. H. BROWN

ARTICLES 975

Vibrational Modes and the Dynamic Solvent
Effect in Electron and Proton Transfer
P. F. BARBARA, G. C. WALKER, T. P. SMITH

Energy Sources: A Realistic Outlook
C. STARR, M. F. SEARL, S. ALPERT

Airborne Studies of the Smoke from the Kuwait Oil Fires
P. V. Hobbs and L. F. Radke

RESEARCH ARTICLE 992

Site-Specific Modification of Pre-mRNA: The 2'-Hydroxyl Groups at the Splice Sites
M. J. Moore and P. A. Sharp

AAAS Board of Directors

Leon M. Lederman
Reining President, Chairman
F. Sherwood Rowland
President
Eloise E. Clark
President-elect
Mary Ellen Avery
Francisco J. Ayala
Robert A. Frosch

Florence P. Haseltine
Alan Schlesinger
Jeanne M. Sheehan
Chang-Lin Tien
Warren E. Washington

William T. Golden
Treasurer
Richard S. Nicholson
Executive Officer

John Abel
Frederick W. Alt
Don L. Anderson
Stephen J. Benkovic
David E. Bloom
Floyd E. Bloom
Henry R. Bourne
James R. Bull
Kathryn Calame
C. Thomas Caskey
Dennis W. Choi

John M. Coffin
Bruce F. Eldridge
Paul T. Englund
Richard G. Fairbanks
Douglas T. Fearon
Harry A. Fozard
Victor R. Fuchs
Theodore H. Gebele
Margaret J. Geller
John C. Gerhart
Roger I. M. Glass

Stephen P. Goff
Corey S. Goodman
Stephen J. Gould
Ira Herskowitz
Eric F. Johnson
Stephen M. Koslow
Konrad B. Krauskopf
Michael LaBarbera
Charles B. Levinson III
Harvey F. Lodish
Richard Losick

Anthony R. Means
Mortimer Mishkin
Roger A. Nicoll
William H. Orme-Johnson III
Stuart L. Pimm
Yehiayu Packter
Dennis A. Powers
Ralph S. Quatrano
V. Ramanathan
Erikku Rsoulehi
Ronald H. Schwartz

Terrence J. Sejnowski
Thomas A. Steitz
Richard P. Thompson
Robert T. N. Tjian
Emil R. Urenue
Georges J. Vermeij
Bert Vogelstein
Harold Wientraub
Zena Werb
George M. Whitesides
Owen N. Witte
Keith Yamamoto
Ceramic effigy from the outside the Maya tomb of the Royal Scribe at Copán, Honduras, one of the artifacts depicted in Scribes, Warriors and Kings, reviewed on page 1062. In addition to views of what years of archeological inquiry tell us about the Maya, a two-century conspectus on developmental biology and critiques of the role of scientists in public affairs are among the features of this Book Issue. For a list of books reviewed in this issue, see page 1035. [Photograph: Kenneth Garrett]

**REPORTS**

Depolarization of Alfalfa Root Hair 998
Membrane Potential by Rhizobium meliloti
Nod Factors
D. W. Ehnhardt, E. M. Atkinson, S. R. Long

Paleotemperatures in the Southwestern 1000
United States Derived from Noble Gases in Ground Water
M. Stute, P. Schlosser, J. F. Clark, W. S. Broecker

Geothermal Evidence from Canada for a 1003
Cold Period Before Recent Climatic Warming
K. Wang and T. J. Lewis

Stress Diffusion Along the San Andreas 1005
Fault at Parkfield, California
P. E. Malin and M. G. Alvarez

Electron-Tunneling Pathways in Cytochrome c
D. S. Wuttke, M. J. Bjerrum, J. R. Winkler, H. B. Gray

High-Resolution Imaging by Fourier Transform X-ray Holography

Order and Low Dimensionality in the Organic Superconductor (BEDT-TTF),Cu(NCS), Revealed by STM

Interaction Cloning: Identification of a Helix-Loop-Helix Zipper Protein That Interacts with c-Fos
M. A. Blanar and W. J. Rutter

Fast Perceptual Learning in Visual
Hyperacuity
T. Poggio, M. Fahle, S. Edelman

Synaptotagmin: A Calcium Sensor on the Synaptic Vesicle Surface
N. Brose, A. G. Petrenko, T. C. Südhof, R. Jahn

High-Frequency Network Oscillation in the Hippocampus
G. Buzsáki, Z. Horváth, R. Urioste, J. Hetke, K. Wise

Acquisition of Myogenic Specificity by Replacement of Three Amino Acid Residues from MyoD into E12
R. L. Davis and H. Weintraub

A Site on Rod G Protein α Subunit That Mediates Effector Activation
H. M. Rarick, N. O. Artemyev, H. E. Hamm

**SPECIAL BOOK SECTION**

1012 Scanning tunneling microscopy of organic superconductors

1018 Fast Perceptual Learning in Visual
Hyperacuity
T. Poggio, M. Fahle, S. Edelman

1021 Synaptotagmin: A Calcium Sensor on the Synaptic Vesicle Surface
N. Brose, A. G. Petrenko, T. C. Südhof, R. Jahn

1025 High-Frequency Network Oscillation in the Hippocampus
G. Buzsáki, Z. Horváth, R. Urioste, J. Hetke, K. Wise

1027 Acquisition of Myogenic Specificity by Replacement of Three Amino Acid Residues from MyoD into E12
R. L. Davis and H. Weintraub

1031 A Site on Rod G Protein α Subunit That Mediates Effector Activation
H. M. Rarick, N. O. Artemyev, H. E. Hamm

1034 Rangings of the Mind
D. L. Goodstein, other reviews by L. Clarke, G. Wise

1038 Genteel Enterprises
P. J. Pauly; other reviews by W. Stanton, K. M. Olesko

1041 The Widener-Wichita Divide
H. M. Kliebard

1042 Absences from the White House
K. L. Nelson; other review by G. A. Greb

1044 Lives of a Chemist
J. Meinwald

1047 So-Called Quasicrystals
M. Senechal; other reviews by B. A. Smith, G. Olah

1050 Immunological Reformulations
T. Söderqvist and C. Stillwell; other reviews by C. D. Stem, K. Anderson, M. Bronner-Fraser

1055 Priorities for Plants
D. Weller; other reviews by T. J. Case, H.-D. Sues, J. L. Gould

1059 Faraday at Home and Abroad
B. J. Hunt; other review by W. Montgomery

1062 Telling about the Maya
S. D. Houston; other reviews by K. A. Taube, T. S. Kawami, R. L. Dauenhauer

1069 Books Reviewed in Science
17 May 1991 Through 8 May 1992

1071 Books Received
Science 256 (5059), 943-1074.