NEWS & COMMENT

Changing of the Castle Guard 728
No Scientist, But a Friend of Science
Privately Funded Exhibit Raises Scientists’ Ire

Robotics: Dante Goes Into the Volcano 731
White House Lauds Basic Research 731
Rockefeller University: Death Threats and Trial by Tabloid 732

There’s a New Wildlife Policy in Kenya: Use It or Lose It 733

RESEARCH NEWS

Will Holograms Tame the Data Glut? 736

Gene Therapy for Clogged Arteries Passes Test in Pigs 738

Genetic Engineering Yields First Pest-Resistant Seeds 739

Atmospheric Research: Stalking Flashy Beasts Above the Clouds 740

Cosmology: Spoiling a Universal ‘Fudge Factor’ 740

Archaeology: Pulling Hair From the Ground 741

PERSPECTIVE

On the Evolution of Eyes: Would You Like It Simple or Compound? 742
C. S. Zuker

ARTICLE

Early Mars: How Warm and How Wet? 744
S. W. Squyres and J. F. Kasting

RESEARCH ARTICLE

Volume Holographic Storage and Retrieval of Digital Data 749
J. F. Heaneue, M. C. Bashaw, L. Hesselink

REPORTS

Structural Transitions in Amorphous Water Ice and Astrophysical Implications of the Renaissance of General Relativity and Cosmology, reviewed by C. J. Hogan; The Polymerase Chain Reaction, M. A. D. Brow; The Development of Drosophila Melanogaster, A. Tomlinson; Vignettes Books Received 753

DEPARTMENTS

THIS WEEK IN SCIENCE 717
EDITORIAL 719
Atomic, Molecular, and Optical Science

LETTERS 721
Institute of Human Origins Breakup: P. R. Renne; P. S. Apell; UV-B and Ozone Observations: F. M. Mims III; Nitric Oxide Toxicity and Poly(ADP-Ribose)Polymerase; H. Kolb; S. H. Snyder; Petrovskite Temperature Profile: R. Bohrer and A. Zerr

BOARD OF REVIEWING EDITORS

Frederick W. Alt
Don L. Anderson
Michael A. Arfazar
Stephen J. Barkovick
David E. Bloom
Floyd E. Bloom
Pat Borst
Henry R. Bourne
Michael E. Brown
James J. Bull
Kathryn Calame
C. Thomas Caskey
Kathleen C. Chan
Harry T. C. Chen
Dennis W. Choi
John M. Coffin
Paul J. Couts
James E. Dahlberg
David W. Deininger
Robert Desmonde
Bruce F. Eldridge
Paul T. Englund
Richard G. Fairbanks
Douglas T. Fearon
Harry A. Fozard
Klaus Friedrich
Theodore H. Geissler
John C. Gerhart
Roger I. Glusman
Stephen P. Goff
Peter N. Goodfellow
Cory S. Goodman
Ira Herskowitz
Eric F. Johnson
Stephen M. Kaelin
Michael LaBarbera
Nicole Le Douarin
Charles S. Levinson III
Alexander Levitzik
Harvey F. Lodish
Richard Losick
Diane Mathis
Anthony R. Means
Shogtada Nakashima
Roger A. Nicoll
Stuart L. Pinn
Yeehau Pocker
Dennis A. Powers
Ralph S. Quatrano
V. Ramanathan
Douglas C. Rees
T. M. Reis
David C. Rubie
Erkki Ruoslahti
Gottfried Schatz
Josef Schett
Ronald H. Schwartz
Terrence J. Sejnowski
Sara Solomon
Thomas A. Steitz
Michael P. Striker
Robert N. Tjian
Emily R. Unanue

GEORGE III J. VERMEER
Bert Vogelstein
Harold Weintraub
Arthur Weiss
Zena Werb
George M. Whitesides
Owen N. Witte
William A. Wulf

714
SCIENCE • VOL. 265 • 5 AUGUST 1994
A vapor deposit of ice warmed to 183 Kelvin, much as cometary ice is heated during transit through the solar system, in a false-color transmission electron microscope image (x170,000). On warming, initially well-defined crystallites flow into a rolling landscape (blue). Diffraction studies reveal both amorphous and cubic crystalline components. These persist until at a higher temperature all ice transforms into the familiar hexagonal form. See page 753. [Micrograph: P. Jenniskens and D. F. Blake]