NEWS & COMMENT

Changing of the Castle Guard 728
No Scientist, But a Friend of Science Privately Funded Exhibit Raises Scientists’ Ire 729
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: Spying a Universal ‘Fudge Factor’ 740

ARCHAEOLOGY

Archaeology: Pulling Hair From the Ground 741

PERSPECTIVE

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

ARTICLE


RESEARCH ARTICLE

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

REPORTS

Structural Transitions in Amorphous Water Ice and Astrophysical Implications of F. M. Mims III • Nitric Oxide Toxicity and Poly(ADP-Ribose)Polymerase: H. Kolb; S. H. Snyder • Petrovskite Temperature Profile: R. Bochler and A. Zerr 753


EDITORS

THIS WEEK IN SCIENCE 717
Atomic, Molecular, and Optical Science 719
LETTERS 721
Institute of Human Origins Breakup: P. R. Renne; P. S. Apelian • 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. Bochler and A. Zerr 721

DEPARTMENTS

SCIENCESCOPE 727
RANDOM SAMPLES 735
BOOK REVIEWS 817
Modern Cosmology and the Dark Matter Problem and the Renaissance of General Relativity and Cosmology, reviewed by C. J. Hogan • The Polymerase Chain Reaction, M. A. D. Brown • The Development of Dro sophila Melanogaster, A. Tomlinson • Vignettes • Books Received 817

PRODUCTS & MATERIALS 821

Board of Reviewing Editors

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]