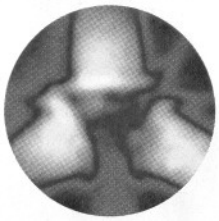

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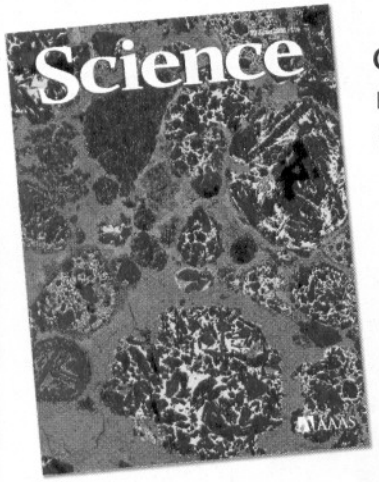

COVER

False-color image of a section of the Semarkona meteorite. The round objects are chondrules; the large one near the bottom center is about 2 millimeters across. Magnesium-rich minerals (olivine and pyroxene) appear red, sodium-rich glass appears yellow, and the iron-rich material surrounding the chondrules includes matrix (greenish) and sulfides, metal, and oxides (blue). The sodium in the glass suggests that the chondrules formed in extremely dusty environments in the early solar system. See page 1617.

Image: Jeffrey Grossman/USGS

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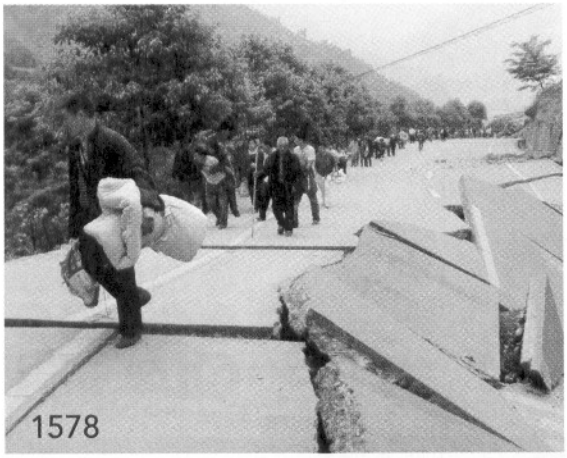
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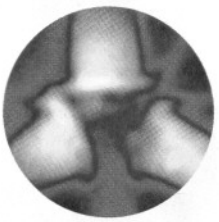

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CLIMATE CHANGE

High-Resolution Greenland Ice Core Data Show Abrupt Climate Change Happens in Few Years

J. P. Steffensen et al.

Greenland's climate flipped to a different state within 1 to 3 years more than once during the last deglaciation.

10.1126/science.1157707

IMMUNOLOGY

Censoring of Autoreactive B Cell Development by the Pre-B Cell Receptor

R. A. Keenan et al.

A protein that helps newly rearranged antibody chains arrive at the cell surface of immature immune cells is found to help delete cells with potential autoreactivity.

10.1126/science.1157533

APPLIED PHYISCS

Control of Exciton Fluxes in an Excitonic Integrated Circuit

A. A. High, E. E. Novitskaya, L. V. Butov, M. Hanson, and A. C. Gossard

Coupled quantum-wells structures, patterned to create electron-hole circuits, can perform simple logic operations on optical input signals.

10.1126/science.1157845

IMMUNOLOGY

Modulation of Gene Expression via Disruption of NF-κB Signaling by a Bacterial Small Molecule

V. V. Kravchenko et al.

A small molecule produced by a common pathogenic bacterium inhibits the activity of a key immune transcription factor.

10.1126/science.1156499

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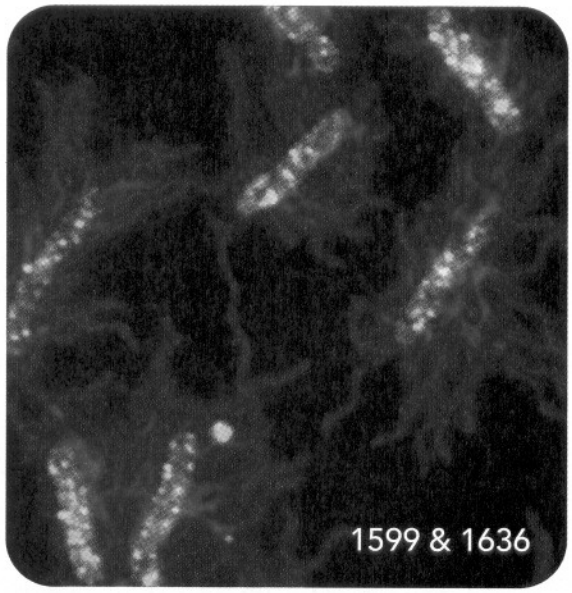

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