NEWS & COMMENT

A Slippery Slope for Science
Spring Rush on Capitol Hill
1796
1797

Mad Cow Disease: Scant Data
Cause Widespread Concern
1798

Sequencers Split Over Data Release
1798

Earthquake Prediction:
Chair Quits Japan Panel in Protest
1799

New Anticoagulant Prompts Bad Blood
Between Partners
Clotting Controversy
1800
1800

Diversity Takes a Student Body Blow
1801

Ukraine: Cash-Starved Researchers to Undergo Trial by Peer Review
Research Stars Use Ingenuity to Survive
1802
1803

RESEARCH NEWS

Superconductivity Turns 10
1804

A Piece of the Dinosaur Killer Found?
1806

New Neurons Use “Lookouts” to Navigate Nervous System
1807

Interferometer Maps Cosmic Microwaves on the Cheap
1809

“Amplifying” the Fine Details of Molecular Structure Is a Gas

Minerals in Rock Mass Hold Clues to 400-Kilometer Ascent

POLICY FORUM

Science and Diversity: A Compelling National Interest
S. M. Malcolm

PERSPECTIVES

Warm Climate Surprises
J. T. Overpeck
1820

Cancer Risk of Low-Level Exposure
M. Goldman
1821

Notch and Wingless Signals Collide
S. S. Blair
1822

Chemical Communication in Honeybees
G. E. Robinson
1824

Enter Listeria, Unruffled
R. B. Gallagher
1825

DEPARTMENTS

THIS WEEK IN SCIENCE

EDITORIAL
Dancing with Wolves
M. R. C. Greenwood
1785
1787

LETTERS

“Earth” Not Omitted Intentionally; R. S. Walker
Good Teaching; S. Datta; A. M. Young
Confidentiality; L. M. Guenin
Attenuated HIV Vaccine: Caveats; R. M. Ruprecht, T. W. Baba, V. Liska;
N. J. Deacon, D. A. McPhee, S. Crowe, J. Learmont, J. Mills
Structure Change Mechanisms in Regulatory Proteins: H. Weinstein and E. L. Mehler
Whistleblowers Not Polled: C. W. McCutchen
1785
1809

SCIENCESCOPE

RANDOM SAMPLES

BOOK REVIEWS

Women Scientists in America, reviewed by L. A. Tilly
1813

AAAS NEWS & NOTES

PRODUCTS & MATERIALS

QUARTERLY INDEX

1814
1884
1885
1887

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1782

SCIENCE • VOL. 271 • 29 MARCH 1996
Optical micrograph (crossed polarizers) showing parallel dark rods of FeTiO₃ (up to 20 micrometers long) that precipitated from solution in the mineral olivine during tectonic transport of a piece of mantle to a location high in the Swiss Alps. These rods formed under high pressure at depths greater than 300 kilometers, indicating profound subduction of continental rocks after the collision of Africa and Europe and their return to the surface carrying this piece of mantle. See page 1841 and News story on page 1811. [Image: Dobrzynietzkaya, H. W. Green II, and S. Wang]