NEWS & COMMENT

Is Japan a Step Behind on Genome? 1504
Teamwork Takes Practice 1505

Patents on Native Technology Challenged 1506
Scientific Dispute at Center of Legal Battle Over Salmon Catch 1507

Breast Cancer Activists Seek Voice in Research Decisions 1508
Department of Energy: Congress Split on Best Way to Reshape Network of Labs 1510

A Theory of Everything Takes Shape 1511
Embryos Travel Forking Path As They Tell Left From Right 1514

Long-Sought H-Y Antigen Found 1515
Call to Desegregate Microbial Databases 1516
Does Magnetic Twist Crank Up the Sun’s Outbursts? 1517

POLICY FORUM

The Changing Ecology of United States Science 1531

PERSPECTIVE

Telomerase and DNA End Replication: No Longer a Lagging Strand Problem? 1533
J. Lingner, J. P. Cooper, T. R. Cech

ARTICLE

The Earth’s Early Evolution 1535
S. A. Bowring and T. Housh

RESEARCH ARTICLE

Interhemispheric Correlation of Late Pleistocene Glacial Events 1541

DEPARTMENTS

EDITORIAL

From Rhetoric to Reality
M. Woolley

LETTERS

Helpful Fossil Hunters: R. K. Stucky, P. Robinson, B. Brit: M. O. Woodburne • Rare and Singular Talent: H. S. Frey; O. Sacks • IL-12 Possibilities: R. Jameton; S. S. Mohapatra • Funding Italian Research: S. Riva; P. Mignatti and M. Ziche • The Cost of Downsizing: J. M. Pasachoff • Land for Florida’s Fauna: J. Cox

BOOK REVIEWS

America’s Pursuit of Precision Bombing, 1910–1945, reviewed by M. Sherry • Vignettes • Hidden Scholars, A. B. Kehoe • Books Received

PRODUCTS & MATERIALS

1605

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Geert J. Vernej
Bert Vogelstein
Arthur Weiss
Zena Werb
George M. Whitesides
Owen N. Witte
William A. Wulf

1517
New twist on solar magnetism

1556
Silicon shows a new face

1517
Is Japan a Step Behind on Genome?

1504
Teamwork Takes Practice

1505
Patents on Native Technology Challenged

1506
Scientific Dispute at Center of Legal Battle Over Salmon Catch

1507
Breast Cancer Activists Seek Voice in Research Decisions

1508
Department of Energy: Congress Split on Best Way to Reshape Network of Labs
A section of iris agate (75 micrometers thick) as viewed in cross-polarized light. Blue bands alternate with more refractive pink bands over several length scales. The banding reflects modulations in the density of defects within fibers of chalcedony (a form of quartz) oriented perpendicular to the banding. The field of view measures ~2.9 millimeters across. See page 1562. [Photo: P. J. Heaney, Specimen from the Mojave Desert, California, U.S. National Museum specimen number 87415]