NEWS & COMMENT

New AIDS Chief Takes Charge
Using Discretion, OAR Style

LIGO Director Out in Shakeup

Agriculture Research: A Bold New Program at Berkeley Runs Into Trouble

Biosphere 2 Makes a New Bid for Scientific Credibility
No Eden in Biosphere

RESEARCH NEWS

Testing an Ancient Impact’s Punch
Searching for the Tracks of Impact in Mexican Sand

Taking a First Look at a Tyrosine Phosphatase

Slow DNA Repair Implicated in Mutations Found in Tumors

AAAS Meeting: War of Words Continues in Violence Research

Quantum Physics: Heisenberg’s Heirs
Exploit Loopholes in His Law

POLICY FORUMS

Status and Prospects of Women in Science in Europe
M. Osborn

Interventions to Increase the Participation of Women in Physics
M. S. Dresselhaus, J. R. Franz, B. C. Clark

PERSPECTIVES

The Quantum Optical Repeater
Y. Yamamoto

Will Transgenic Crops Generate New Viruses and New Diseases?
B. W. Falk and G. Bruening

RESEARCH ARTICLES

Crystal Structure of Human Protein Tyrosine Phosphatase 1B
D. Barford, A. J. Flint, N. K. Tonks

The 2.9 Å Crystal Structure of T. thermophila Seryl-tRNA Synthetase Complexed with tRNA
V. Biou, A. Yaremchuk, M. Tukalo, S. Cusack

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THIS WEEK IN SCIENCE

EDITORIAL

Women in Science

LETTERS


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1371 Witness to extinction

1373 & 1397 Catalytic site cleft of protein tyrosine phosphatase 1B
This year's "Women in Science" issue compares the position of female researchers in national cultures around the world—and finds many surprises. For example, women are proportionally better represented in science in Turkey than they are in the United States. The reasons for such startling disparities are discussed in a special news section beginning on page 1467. Policy Forums on women in science appear on pages 1389 and 1392 and a bibliographic update on page 1458. [Photo: NASA; Photootillustration: Tracey Keaton Dreww]