NEWS & COMMENT
New Virus Reports Rile AIDS Meeting 604
Progress on Other Fronts
Human SIV Infections Suspected 606
Germany: Astrophysics Institute at Risk 606
Bad News on Second-Hand Smoke 607
Frustrated EMBL Chief Resigns 607
A Scramble for Data on Arctic Radioactive Dumping
An NSF Survey Rattles Some Nerves 609
RESEARCH NEWS
Trapping Particles of Darkness 610
A Match Made in Laser Heaven 611
The Earliest Mass Extinction? 612
Forcing the Evolution of an RNA Enzyme in the Test Tube
Adhesion Protein Studies Provide New Clue to Metastasis
SPECIAL NEWS REPORT
CONFLICTS OF INTEREST
Confusion on the Cutting Edge 616
Journal-istic Guidelines • Not Merely Academic
When Does Intellectual Passion Become Conflict of Interest?
Sex on the Brain • The Perils of a Deeply Held Point of View • Small Comets/Big Flap
NSF Deals With Conflicts Every Day 624
Intellectual Conflicts—Boon or Bust? 624
Conflicting Views: The Readers Respond 625
PERSPECTIVE
The Logic of Cell Division in the Life Cycle of Yeast
C. J. Gimeno and G. R. Fink 626
ARTICLE
Structural Processes at Slow-Spreading Ridges
J. C. Mutter and J. A. Karson 627
DEPARTMENTS
THIS WEEK IN SCIENCE 593
EDITORIAL
Conflict of Interest Policy 595
LETTERS
Paleoanthropological Contexts: G. A. Clark
Teraflap Computers: W. D. Hills • Confidence in Science: A. Mazur • AIDS Epicenter: D. Mavoungou
Healthy Museum: M. J. Novacek • Clear Vision: H. S. Thompson
INFORMATION FOR CONTRIBUTORS 600
AAAS Board of Directors
Leon M. Lederman
Frasier President, Chairman
F. Sherwood Rowland
President
Eisie E. Clark
President-elect
Mary Ellen Avery
Francesca J. Ayala
Robert A. Frey
Florence P. Haseltine
Alan Schriesheim
Jeanne M. Shreve
Chang-Lin Tien
Warren M. Washington
William T. Golden
Richard S. Nicholson
Executive Officer
John Abelson
Frederick W. Alt
Don L. Anderson
Stephen J. Benkovic
David E. Bloom
Floyd E. Bloom
Henry R. Bourne
James J. Bull
Kathryn Calame
G. Thomas Caoney
John M. Coffin
Bruce F. Edridge
Paul T. Englund
Richard G. Fairbanks
Douglas T. Fearon
Henry A. Fozzard
Victor R. Fuchs
Theodore H. Gebele
Margaret J. Geller
John C. Gerhart
Roger M. Glass
John P. Goff
Corry S. Goodman
Stephen J. Gould
Ira Herskowitz
Eric F. Johnson
Stephen M. Kosslyn
Michael LaBarbera
Charles S. Lovings III
Harvey F. Lodish
Richard Losick
Anthony R. Means
Stephen P. Goff
Corry S. Goodman
Stephen J. Gould
Ira Herskowitz
Eric F. Johnson
Stephen M. Kosslyn
Michael LaBarbera
Charles S. Lovings III
Harvey F. Lodish
Richard Losick
Anthony R. Means
IMPORTANCE OF SCIENCE
American Association for the Advancement of Science
Board of Reviewing Editors
Thomas A. Steitz
Richard F. Thompson
Robert T. N. Tjan
Emil R. Unanue
Gerard J. Vermeij
Bert Vogelstein
Harold Weintraub
Zena Werb
George M. Whitesides
Owen N. Witte
Keith Yamamoto
Coral skeleton of the genus *Favia*. Scleractinian corals secrete a hard skeleton composed of aragonite (CaCO₃), which incorporates strontium along with calcium in a ratio that depends on sea-surface temperature. Recent findings suggest that for corals of the genus *Porites* this dependence may be used to recover records of Pleistocene and Holocene sea-surface temperatures with an apparent accuracy of better than 0.5°C. See page 644. [Photomicrograph: J. W. Beck]