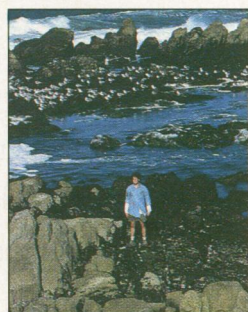
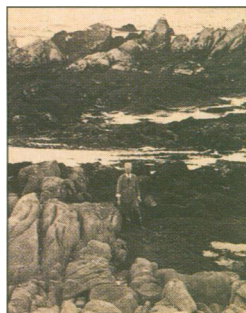


**620**

Biology's new image

**672**

A communal shift to the north



## NEWS

Guarding Against Internet Intruders **608**  
Learning to Live With a Fire Wall **609**

Chechnya War Threatens Science **610**

NAS to Lose Contract for A-Bomb Study **611**

Fishermen Threaten Galápagos **611**

Is the World Warming or Not? **612**

Walker Bill to Boost Hydrogen Sparks **613**  
Democratic Grumbling

Painted Puzzles Line the Walls of an Ancient Cave **614**

NSF: Multidisciplinary Office Spurs Debate **615**

Getting the Poop on Baboon DNA **615**

Brain Center Linked to Perfect Pitch **616**

For a Successful Supernova, Mix Well, Then Explode **617**

## SPECIAL NEWS REPORT

Protein Images Update Natural History **620**  
Now Even Weaklings Can Image Proteins! **620**  
Industrial-Strength Protein Structures **622**

## POLICY FORUM

Reexamining AIDS Research Priorities **633**  
W. E. Paul

## PERSPECTIVE

Explosive Evolution in Tertiary Birds and Mammals **637**  
A. Feduccia

## ARTICLE

Ocean Tides for and from TOPEX/POSEIDON **639**  
C. Le Provost, A. F. Bennett, D. E. Cartwright

## RESEARCH ARTICLE

Aminoacyl-RNA Synthesis Catalyzed by an RNA **643**  
M. Illangasekare, G. Sanchez, T. Nickles, M. Yarus

## REPORTS

Metal Ions in the Atmosphere of Neptune **648**  
J. R. Lyons

## DEPARTMENTS

THIS WEEK IN SCIENCE **597**

EDITORIAL **599**  
SOSS: Save Our Social Security

LETTERS **601**  
*E. coli* Sequencing: J. C. Venter; R. Haselkorn • NSF FastLane Goals: A. C. Petersen • Shelter After Earthquakes: B. Wattenberg • Risk Assessments of Low-Level Exposures: S. J. Smith, A. T. L. Chen, S. P. Caudill, S. F. Wetterhall, L. E. Sever; J. D. Mann • Other Lipopeptides: J. Y. Takemoto, A. Ballio, A. Isogai

SCIENCESCOPE **607**

RANDOM SAMPLES **618**

BOOK REVIEWS **712**  
*Sexual Selection*, reviewed by M. J. Ryan • *Die Kunst of Phonons*, A. A. Maradudin • Vignettes • Other Books of Interest • Books Received

GORDON RESEARCH CONFERENCES **716**

PRODUCTS & MATERIALS **732**

## Board of Reviewing Editors

Frederick W. Alt  
Don L. Anderson  
Michael Ashburner  
Stephen J. Benkovic  
David E. Bloom  
Floyd E. Bloom  
Piet Borst  
Henry R. Bourne  
Michael S. Brown  
James J. Bull

Kathryn Calame  
C. Thomas Caskey  
Dennis W. Choi  
John M. Coffin  
F. Fleming Crim  
Paul J. Crutzen  
James E. Dahlberg  
Robert Desimone  
Bruce F. Eldridge  
Paul T. Englund

Richard G. Fairbanks  
Douglas T. Fearon  
Harry A. Fozzard  
Klaus Friedrich  
Theodore H. Geballe  
John C. Gerhart  
Roger I. M. Glass  
Stephen P. Goff  
Peter N. Goodfellow  
Corey S. Goodman

Ira Herskowitz  
Eric F. Johnson  
Stephen M. Kosslyn  
Michael LaBarbera  
Nicole Le Douarin  
Charles S. Levinger III  
Alexander Levitzki  
Harvey F. Lodish  
Richard Losick  
Reinhard Lührmann

Diane Mathis  
Anthony R. Means  
Shigetada Nakanishi  
Roger A. Nicoll  
Stuart L. Pimm  
Yeshayau Pocker  
Dennis A. Powers  
Ralph S. Quatrano  
V. Ramanathan  
Douglas C. Rees

T. M. Rice  
David C. Rubie  
Erkki Ruoslahti  
Gottfried Schatz  
Jozef Schell  
Ronald H. Schwartz  
Terrence J. Sejnowski  
Ellen Solomon  
Thomas A. Steitz  
Michael P. Stryker

Robert T. N. Tjian  
Emil R. Unanue  
Geerat J. Vermeij  
Bert Vogelstein  
Harold Weintraub  
Arthur Weiss  
Zena Werb  
George M. Whitesides  
Owen N. Witte  
William A. Wolf