NEWS & COMMENT

Harrison Case: No Calm After Storm
Reviewing Harrison's Latest Work 324

Superphénix Set to Rise Again 327

How Stanford Beat Cornell and Won the B Factory 328

Leading Pork Opponent Hog-Tied by Cancer Project 329

NSF's Construction Program Grows Up 330

RESEARCH NEWS

Upgrade of Storm Warnings Paying Off So Many Promises to Keep 331

Copper Clues Clarify Metabolic Puzzle 333

Long-Term NSF Network Urged to Broaden Scope Report Backs Bigger Biological Survey 334

ARTICLE

Disintegration Phenomena Expected During Collision of Comet Shoemaker-Levy 9 with Jupiter Z. Sekanina 382

RESEARCH ARTICLES

Human Cks1/HS2 Atomic Structure: A Role for Its Hexameric Assembly in Cell Cycle Control H. E. Parie, A. S. Arvai, D. J. Musturta, S. I. Reed, J. A. Tainer 387

HTLV-I Tax Protein Stimulation of DNA Binding of bZIP Proteins by Enhancing Dimerization S. Wagner and M. R. Green 395

REPORTS

Spectroscopic Detection of Molecular Hydrogen Frozen in Interstellar Ices S. A. Sandford, L. J. Allamandola, T. R. Geballe 400

Closely Approaching the Silylium Ion (R3Si+) C. A. Reed, Z. Xie, R. Blau, A. Benesi 402

Production of Perfluoroalkylated Nanospheres from Buckminsterfullerene P. J. Fagan, P. J. Krusic, C. N. McEwen, J. Lazar, D. H. Parker, N. Herron, E. Wasserman 404

Isotopic Evidence for Reduced Productivity in the Glacial Southern Ocean A. Shemesh, S. A. Macko, C. D. Charles, G. H. Rau 407

DEPARTMENTS

THIS WEEK IN SCIENCE 313
EDITORIAL 315
LETTERS 317
SCIENCESCOPE 323
RANDOM SAMPLES 336
BOOK REVIEWS 442

Board of Reviewing Editors

John Abelosn
Frederick W. Alt
Don L. Anderson
Michael Ashburner
Stephen J. Benkovic
David E. Bloom
Floyd E. Bloom
Piet Borst
Michael S. Brown
Harry R. Bourne
James J. Bull
Kathryn Calame
C. Thomas Caskey
Dennis W. Choi
John M. Coffin
Paul J. Crutzen
Robert Desimone
Nicole Le Douarin
Bruce F. Eldridge
Paul T. Englund
Richard G. Fairbanks
Douglas T. Fearon
Harry A. Fozard
K. Friedrich
Theodore H. Gaballe
Margaret J. Geller
John C. Gerhart
Roger M. Glass
Stephen P. Goff
Peter N. Goodfellow
Corey S. Goodman
Stephen J. Gould
Ira Herskowitz
Eric F. Johnson
Stephen M. Koslyn
Michael LaBarbera
Charles S. Levinson III
Alexander Levitzki
Harvey F. Lodish
Richard Losick
Diane Mathis
Anthony R. Means
Shigetada Nakashima
Roger A. Nicoll
William H. Orme-Johnson III
Stuart L. Pimm
Yeshayau Pocker
Dennis A. Powers
Ralph S. Quatrano
V. Ramanathan
Douglas C. Rees
T. M. Rice
Erik Ruuselahti
David C. Rubie
Gottfried Schatz
Jozef Schell
Ronald H. Schwartz
Terence J. Sajnovski
Ellen Solomon
Thomas A. Steitz
Michael P. Styrsky
Richard F. Thompson
Robert T. N. Tian
Emil R. Unanue
Geerat J. Vermeij
Bert Vogelstein
Harald Weintraub
Zena Werb
George M. Whitesides
Owen N. Witte
William A. Wulf
Keith Yamamoto
Scientific themes depicted on postage stamps from eastern Asian countries. (For a description of each stamp, see page 345.) A special section beginning on page 345 features News reports, a Policy Forum, and Perspectives on the emerging scientific powers of Asia—South Korea, Taiwan, Hong Kong, Singapore, and China—and Japan’s role in the region’s scientific development. [Stamps: U.S. National Postal Museum and Ding-Shinn Chen. Package photo: Rick Kozak, Washington, DC]

**NEWS REPORTS**

Introduction 345

The Scientific Geography of East Asia

- Country on Country: Compete Japan
- Japanese Universities Become Magnets for Asian Students
- Japan Holds Tight on Tight Cutting-Edge Technology
- Singapore: Entering the Scientific Mainstream—Selectively
- South Korea: National Project Aimed at Making It the Leading Tiger—Taiwan: Past Success Provides No Sure Guide to the Future

**SCIENCE IN ASIA**

**POLICY FORUM**

Building United States—Asia

C.-L. Tien

**PERCEPTIONS**

The Present and Future of China’s Particle Physics Research

Z. Zheng

From Hepatitis to Hepatoma: Lessons from Type B Viral Hepatitis

D.-S. Chen

High-Pressure Mineral Physics: An Inside View of the Earth

E. Ito

Proteases in Escherichia coli

C. H. Chung

Double Resonance Spectroscopy and Molecular Dynamics

C.-H. Zhang and G.-H. Sha

Yin and Yang of Phosphorylation in Cytokine Signaling

Y. H. Tan

Plant Biotechnology in China

Z. Chen and H. Gu

Extending the Poisson Approximation

L. H. Y. Chen

Conformational Flexibility of Enzyme Active Sites

C.-L. Tsou

**TECHNICAL COMMENTS**

Transcription-Coupled DNA Repair

K. S. Sweder and P. C. Hanawalt; S. Buratowski

Using Satellite Infrared Data in Studies of Variabilities of the Western Pacific Warm Pool


**AAAS Board of Directors**

F. Sherwood Rowland

Retiring President, Chairman

Eosin E. Clark

President

Francisco J. Ayala

President-elect

Robert A. Froehlich

Florence P. Haseltine

William A. Lester, Jr.

Alan Schineheim

Joan M. Shreve

Chang-Lin Tien

Warren M. Washington

Nancy S. Wesler

William T. Golden

Treasurer

Richard S. Nicholson

Executive Officer

**387**

Hexameric hub

**Indicates accompanying feature**

**SCIENCE (ISSN 0036-8075) is published weekly on Friday, except the last week in December, by the American Association for the Advancement of Science, 1333 H Street, NW, Washington, DC 20005. Second-class postage (publication No. 484446) paid at Washington, DC, and additional mailing offices. Copyright © 1993 by the American Association for the Advancement of Science. The title SCIENCE is a registered trademark of the AAAS. Domestic individual membership and subscription (51 issues): $87 ($87 allocated to subscription). Domestic institutional subscription (51 issues): $210. Foreign postage extra: Mexico, Caribbean (surface mail) $55; other countries (air assisted delivery) $95. First class, airmail, student and emeritus rates on request. Canadian rates with GST available upon request. GST #12548122. Change of address: allow 6 weeks, giving old and new addresses and 11-digit account number. Postmaster: Send change of address to Science, P.O. Box 2003, Marion, OH 43305-2003. Single copy sales: $9.00 per issue prepaid includes surface postage. Guide to Biotechnology Products and Instruments, $20. Bulk rates on request. Authorization to photocopy material for internal or personal use under circumstances not falling within the fair use provisions of the Copyright Act is granted by AAAS to libraries and other users registered with the Copyright Clearance Center (CCC) Transactional Reporting Service, provided that the base fee of $1 per copy plus $0.10 per page is paid directly to CCC, 27 Congress Street, Salem, MA 01970. The identification code for Science is 0036-8075/93 $1.00. Science is indexed in the Reader's Guide to Periodical Literature and in several specialized indexes.**
Science 262 (5132), 313-445.