NEWS & COMMENT

Measuring What Works in Health Care 1080
Academic Medicine’s Stake in Health Care Reform

Russia Seen Poised to Drop Prosecution of Chemist 1083
AAAS Meeting: Losing Friends and Influencing Policy 1084
Science Editor to Resign 1084
Lane Holds to the Middle in Debate Over NSF’s Future 1085
Phosphorus Fingered as Coral Killer 1086

RESEARCH NEWS

Rewriting—and Redating—Prehistory 1087
A Glimmer of Hope for Coastal Migration 1088
Iron Fertilization: A Tonic, but No Cure for the Greenhouse

DEPARTMENTS

THIS WEEK IN SCIENCE 1069
EDITORIAL
Strategic Goals on an NIH Model

LETTERS
Animal Rights and Radical Politics: A. R. Morrison; H. Herzog • Pork Barrel Funding an Embarrassment: G. E. Laramore; C. Anderson • Safety in Quarks?: A. Kramish

SCIENCESCOPE 1079
RANDOM SAMPLES 1094

BOOK REVIEWS 1161
The Biophila Hypothesis, reviewed by C. S. Fischer • Critical Assembly, R. Peierls • Biotechnology in Plant Disease Control, N. K. Van Alfen • The Cell Cycle, F. R. Cross and K. Levine • Vignettes • Books Received

INSIDE AAAS 1168
PRODUCTS & MATERIALS 1172

1087 & 1118
Java fossil redates human history

1105
Mapping mantle flow

1089
Theoretical Ecology: Winning Its Spurs in the Real World
Atom Beams Split by Gentle Persuasion
Researchers Find New Role for Cell Cycle Proteins

PERSPECTIVES
Thinking About Prozac
S. H. Barondes
Duality of TBP, the Universal Transcription Factor
K. Struhl

ARTICLE
Trench-Parallel Flow Beneath the Nazca Plate from Seismic Anisotropy
R. M. Russo and P. G. Silver

BOARD OF REVIEWING EDITORS

John Abelson
Frederick W. Alt
Don L. Anderson
Michael Ashburner
Stephen J. Benkovic
David E. Bloom
Floyd E. Bloom
Piet Boyer
Michael S. Brown
Henry R. Bourne
James J. Bull
Kathryn Celanne
C. Thomas Cleekan
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. Fozzard
K. Friedrich
Theodore H. Geballe
Margaret J. Geller
John C. Gerhart
Roger I. M. Glass
Stephen P. Goff
Peter N. Goodfellow
Corey S. Goodman
Stephen J. Gould
Ir.a Herskowitz
Eric F. Johnson
Stephen M. Koselyn
Michael LaBarbera
Charles S. Leavings III
Alexander Levitzki
Harvey F. Lodish
Richard Losick
Diane Mathis
Anthony R. Means
Shigetada Nakashiki
Roger A. Nicoll
William H. Orme-Johnson III
Stuart L. Pimm
Yehayahu Pocker
Dennis A. Powers
Ralph S. Quatrano
V. Ramanathan
Douglas C. Rees
T. M. Rice
Erik Ruoslahti
David C. Rubie
Gottfried Schatz
Josep Schell
Ronald H. Schwartz
Terrence J. Sejnowski
Ellen Solomon
Thomas A. Steitz
Michael P. Styrsky
Richard F. Thompson
Robert T. N. Tjian
Emil R. Unanue
Geerat J. Vermeij
Bert Vogelstein
Harald Wenkraub
Zarna Wera
George M. Whitesides
Owen N. Witte
William A. Wulf
Keith Yamamoto
Cliffs of the Miocene Monterey Formation, Naples Beach, California. These finely laminated sedimentary rocks rich in organic matter were deposited during a period of worldwide cooling about 14 million years ago. A record of this climate change is revealed by the carbon isotopic signatures of certain molecules synthesized by organisms, such as marine algae and bacteria, and subsequently fossilized after the sediments were deposited. See page 1122. [Photo: Kevin Irwin, Chevron Petroleum Technology Company]