

# Science Service Publication Volume 151, No. 13, March 29, 1997

Thomas Peter Bennett Julie Ann Mille Blair Burns Potter Dan Skripkar

**David Lindley** 

Editor Managing Editor Production/Design Director Associate Editor

Publisher

Senior Editor Environment/Policy

Online Editor Mathematics/Physics

Behavioral Sciences Internship Coordinator Earth Science

Chemistry/ Materials Science Science Writer Intern

Editorial Assistant

Books/Advertising

Business Manage

**Biomedicine** 

Astronomy

Life Sciences Biology

Ivars Peterson **Bruce Bower** Richard Monastersky

Kathleen Fackelmann. Ron Cowen

Tina Adler, Christine Mlot John Travis Corinna Wu

Paul Smaglik Meghan Mitchell Cait Anthony Donald R. Harless

SCIENCE NEWS (ISSN 0036-8423) is published weekly on Saturday, except the last week in December, for \$49.50 for 1 year or \$88.00 for 2 years (foreign postage \$6.00 additional per year) by Science Service, 1719 N Street, N.W., Washington, D.C. 20036. Preferred Periodicals postage paid at Washington, D.C., and additional mailing office. POSTMASTER: Send address changes to Science News, P.O. Box 1925, Marion, Ohio 43305. Change of address: P.O. Box 1925, Marion, Ohio 43305. Change of address: Four to six weeks' notice is required — old and new addresses, including zip codes, must be provided. Copyright © 1997 by Science Service. Title registered as trademark U.S. and Canadian Patent Offices. Printed in U.S.A. on recycled paper. ( Pepublication of any portion of SCIENCE NEWS without written permission of the publisher is prohibited.

#### Editorial and Business Offices

1719 N St. N.W., Washington, D.C. 20036 202-785-2255; *scinews@scisvc.org* 

# Advertising Representative

Lewis Edge & Associates, Inc. 366 Wall St., Princeton, N.J. 08540, 609-683-7900

# Subscription Department

P.O. Box 1925, Marion, Ohio 43305 For new subscriptions only, call 1-800-247-2160. For customer service, call 1-800-552-4412.

SCIENCE NEWS ONLINE http://www.sciencenews.org

#### The Weekly Newsmagazine of Science

#### **This Week**

188 First Peek at DNA Transcription

Eye pigments may depend on one amino acid 188 189 Conscience grows on temperamental ground Swapping insulin syringes for tiny beads 189

Meteorite still holds inklings of life 190

190 New glucose test on the way for diabetes Newfound gene linked to several cancers 191

191 Florida manatees' future: Grim or golden?

### **Research Notes**

Astronomy 194 194 Biomedicine 196 Earth Science 196 **Physics** 

### **Articles**

192 Deep Dwellers

> Cover: While scientists once considered the deep crust a lifeless place microbiologists are now discovering a rich assortment of microbes locked in rock several kilometers underground. The red bacterial cells in this micrograph come from basalt formations in Washington State. They live on a diet of basalt and water, harnessing energy from hydrogen released by the rock. (Micrograph: T. Stevens/Pacific Northwest National Lab.)

198 Forbidden Flavors

# **Departments**

Letters 187 197 **Books** 



Science Service is a nonprofit corporation founded in 1921 to increase the public understanding of science. It publishes Science News and administers the International Science and Engineering Fair and the Science Talent Search.

Board of Trustees — Chairman, Dudley Herschbach; Vice Chairman, Gerald F. Tape; Secretary, David A. Goslin; Treasurer, Willis Harlow Shapley; Joseph W. Berg Jr.; Robert W. Fri; J. David Hann; Shirley M. Malcom; Eve L. Menger; C. Bradley Moore; Ben Patrusky; H. Guyford Stever; Sanford J. Ungar; Deborah P. Wolfe; Chairman Emeritus, Glenn T. Seaborg; Honorary Trustees, Edward Bliss Jr.; Bowen C. Dees; Elena O. Nightingale; O.W. Riegel; John Troan.

Officers-President, Thomas Peter Bennett; Vice President and Business Manager, Donald R. Harless.

# Letters

#### Relocated ruins?

I enjoyed and was heartened by the endeavors to protect our marble and limestone heritage, as addressed in "Consolidating the Stone" (SN: 1/25/97, p. 56). I was somewhat baffled, however, by the photo that purports to show the Mundo Maya Ruins in Mexico City.

Did the researchers relocate both the Temple of the Warriors and the Temple of Kukulcan, which normally reside at Chichén Itzá, to Mexico City to see how Yucatán limestone weathers in a different clime? Excellent job of landscape reconstruction as well.

Bill Preston San Luis Obispo, Calif.

As you—and several other readers—point out, the ruins are not in Mexico City. —The Editors

#### **Baseline: Normal**

1996: Year of warmth and weather reversals" (SN: 1/18/87, p. 38) includes a map and caption that, taken together, boggle the mind. The map purports to show that the near-polar regions are warmer than the area between the tropics.

Surely, either the map is wrong or the caption is.

Russell Ward Clover, S.C.

The caption should have read: Surface temperature anomalies, with cooler-than-normal regions in blue and warmer-than-normal regions in red. - R. Monastersky

## **CLARIFICATION**

J. Koudy Williams of the Bowman Gray School of Medicine wishes to clarify a statement in "Hormone Therapy: Issues of the Heart" (SN: 3/8/97, p. 140). In terms of protection from heart disease, he says, the widely prescribed progesterone MPA "appears to lessen the beneficial effects of estrogen.'

Seymour Cray is erroneously spelled Clay in the Books listing (SN: 3/1/97, p. S9)

## Recent Awards

Three members of the SCIENCE NEWS staff have been honored recently for journalistic achievement.

David Lindley, associate editor, won a Phi Beta Kappa award for outstanding contributions to humanistic learning. He was recognized for Where Does the Weirdness Go? Why Quantum Mechanics Is Strange but Not As Strange As You Think, published last year by Basic Books.

John Travis, who writes about biology, received honorable mention in the Evert Clark Award for Science Journalism. The award was announced at the meeting last month in Seattle of the American Association for the Advancement of Science.

Julie Ann Miller, editor, was selected to receive the University of Wisconsin's Award for Distinguished Service to Journalism and Mass Communication. The award, which recognizes outstanding career accomplishment, will be presented in Madison next month.

MARCH 29, 1997

SCIENCE NEWS, VOL. 151

187