# SIEKE NEVS®

A Science Service Publication Volume 134, No. 20, November 12, 1988

E.G. Sherburne Jr. Publisher
Patrick Young Editor
Laurie Jackson Managing Editor
Janice Rickerich Production/Design
Director
Bruce Bower Behavioral Sciences
Richard Monastersky Earth Sciences

Richard Monastersky
Janet Raloff
Kathy A. Fackelmann,
Rick Weiss
Ivars Peterson
Christopher Vaughan

Earth Sciences
Environment/Policy
Life Sciences/
Biomedicine
Mathematics/Physics
Physical Sciences/
Technology

Jonathan Eberhart Space Sciences
Susan Arns Assistant to the Editor
Charles E. Knox,
Ingrid Wickelgren Interns

Wendy McCarren
Donald R. Harless

Books/Resource Manager
Advertising/Business
Manager

Copyright © 1988 by Science Service, Inc., Editorial and Business Offices, 1719 N St., N.W., Washington, D.C. 20036. Republication of any portion of SCIENCE NEWS without written permission of the publisher is prohibited

Subscription Department 231 West Center Street, Marion, Ohio 43305

Subscription rate: 1 yr., \$34.50; 2 yrs., \$58.00. (Foreign postage \$6.00 additional per year.) Change of address: Four to six weeks' notice is required. Please state exactly how magazine is to be addressed. Include zip code. For new subscriptions only call (1) 800-247-2160. Printed in U.S.A. Second class postage paid at Washington, D.C., and additional mailing offices. Title registered as trademark U.S. and Canadian Patent Offices. Published every Saturday by SCIENCE SERVICE, Inc., 1719 N St., N.W., Washington, D.C. 20036. (202-785-2255) ISSN 0036-8423

### **This Week**

308	Schizophrenia: Genetic Clues and Caveats
308	Double-strength cholesterol reducer?
309	New signs of world upheaval at K-T
309	Subsea volcanoes found near Hawaii
310	Worming into a computer's vulnerable core
310	High expectations for Voyager 2 at Neptune
311	Ignoring some data may aid crop counts
311	Firming the figures on mental illness
311	AIDS toll underestimated in IV drug users

#### **Research Notes**

318	Biomedicine
318	Earth Sciences
319	Mathematics
319	Space Sciences

# **Articles**

#### 314 Lessons From the Flames

Cover: In a photograph taken in late August, smoke from burning forests drapes the Absoroka Mountains in the southeast section of Yellowstone National Park. Now, as the mountains trade their gray shawl for a mantle of fresh snow, scientists discuss what they learned from the fires of 1988. (Photo: James Peaco/National Park Service)



## **Departments**

307 Letters 313 Books

Science Service Institution for the public understanding of science founded 1921; a nonprofit corporation. Board of Trustees — *President*, Glenn T. Seaborg; *Vice President*, Gerald F. Tape; *Treasurer*, Willis Harlow Shapley; *Secretary*, Hilleary F. Hoskinson; Joseph W. Berg Jr.; Edward Bliss Jr.; Bowen C. Dees; David A. Goslin; J. David Hann; Milton Harris; Elena O. Nightingale; O.W. Riegel; H. Guyford Stever; John Troan; Deborah P Wolfe

Director: E. G. Sherburne Jr.; Assistant Director: Dorothy Schriver; Business Manager: Donald R. Harless.

# Letters

# A mother's place . . .?

As an educator, I have suspected a link between below-average academic performance and a home in which both parents are absent due to full-time employment ("From Here to Maternity," SN: 10/1/88, p.220).

We are now aware of a relationship between the high academic performance of Asian students and maternal involvement with the child's education. Could a relationship also exist between a *lack* of direct maternal involvement from an early age and *lowered* performance?

> Leslie J. Pond Huntington Station, N. Y.

I was appalled by the publication of "From Here to Maternity." I subscribe to Science News because I want to keep up to date on scientific and technological developments. Bruce Bower's article is neither an analysis nor a review of a scientific issue. It is basically a political polemic suggesting maternity leave legislation should be liberalized. The political thrust is given a thin, quasiscientific veneer by quoting random assertions by a few psychologists. These quotes don't even come close to proving that extended maternal leave is better for babies than quality daycare. They merely assert a few dubious propositions: that daycare "is risky," that parents are too ignorant to judge daycare programs and that quality daycare depends on government regulations at the state level.

Science News should stick to doing what it does best, reporting on science and technology. We can get our fill of legislative controversies in our newspaper, our TV and radio.

Arthur Mode

Falls Church, Va.

"From Here to Maternity" does not attempt to "prove" that maternal leave is better for babies than quality daycare. In fact, the article refers to

a prior story in SCIENCE News (SN: 7/25/87, p.54) discussing research on the strengths of quality daycare for young children.

Legislative wrangling on maternity leave and daycare does not alter the fact that scientists are closely examining parent-child interaction in the months following birth. Science, including the "technological" variety, does not provide absolute proof and should not be expected to do so.

— B. Bower

The next time you use great art to illustrate a story, please credit the artist, not just the institution and donor. The irony of your failure to credit the woman artist whose work appears on p.221 – given the subject of the story – should be embarrassing.

Mark Roeyer Lawrence, Kan.

It is. "The Maternal Kiss" was painted by Mary Cassatt (1845-1926). We regret the confusion caused by this omission. — the editors

NOVEMBER 12, 1988 307