

The Weekly Newsmagazine of Science

A Science Service Publication Volume 134, No. 10, September 3, 1988

E.G. Sherburne Jr. Patrick Young Laurie Jackson Wendy McCarren

Wendy McCarren Production/Design Director

Bruce Bower Behavioral Sciences
Richard Monastersky Earth Sciences
Christopher Vaughan, General Science

Publisher

Managing Editor

Editor

Hichard Monastersky Christopher Vaughan, Stefi Weisburd Carol Eron, Rick Weiss Ivars Peterson

Janet Raioff Jonathan Eberhart Life Sciences/ Biomedicine Mathematics/Technology Policy/Technology Space Sciences Assistant to the Editor Science Writer

Laura Beil, Melissa Hendricks Jane M. Livermore Donald R. Harless

Janice Rickerich

Interns
Books
Advertising/Busines

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

New Chemical Model, New Ozone Fear 148 148 Mutant hamsters: Running a little early 149 Layer upon layer to higher temperatures 149 Dog virus seals fate of European seals 150 PRODIGY speeds computer learning New protein piece for AIDS puzzle 150 151 Manic depression: Risk and creativity 151 Geometry for segregating polymers

### **Research Notes**

156 Astronomy156 Computer Science158 Environment158 Physical Sciences

#### **Articles**

152 Relativity by the Numbers

Cover: This computer-generated picture is one frame from a sequence illustrating the head-on collision of two neutron stars. The colored streaks represent the trajectories of selected particles of stellar material. Such pictures result from the use of supercomputers for solving the equations of Einstein's general theory of relativity. (Illustration: Charles Evans/Caltech)

155 The Depression-Stress Link



## **Departments**

147 Letters159 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**

# Risk and responsibility

I am the mother of two, the youngest just 1 year old. Neither of my children had any serious reactions to their immunizations as babies. However, I am a little disturbed to read that the real reason for giving the oral, rather than the injectable, polio vaccine is not just to protect my child but also to protect those children who may not have obtained the vaccine ("Polio Policy: A Bitter Pill to Swallow," SN: 7/16/88, p.43).

I am from an upper-middle-class environment, and I believe all the kids my children were exposed to as infants were from similar backgrounds and thus were properly immunized. I also know there are clinics where less advantaged children can obtain free vaccinations, if their parents are responsible enough to take them. Why should I have to subject my children to needless risk, albeit exceedingly small, in order to protect other children

whose parents are not as responsible?

I hope the change in immunization policy is quicker than the two to five years mentioned in the article. I do not see why the injectable vaccine cannot be given to infants now, separately from the DTP vaccine if need be. Then, when the children are older and have some immunity built up, their pediatricians could follow with the oral vaccine.

In the meantime, maybe our health officials need to put more effort into getting to those children who are not brought to clinics voluntarily.

Belinda Root Houston, Tex.

## Debunking debated

To give credit to The Amazing Randi's debunking of the French homeopathic experiments ("NATURE douses dilution experiment," SN: 7/30/88, p.69) boggles my mind. Here is a former stage magician mixing up the

bottles and taping codes on the ceiling (misdirecting attention?) with the express intention of proving the homeopathic procedures worthless. In fact, he has made a career out of invalidating chosen targets which he has labeled as pseudoscience. Not impartial, he. Who, I must ask, is more likely to have fooled the NATURE editor?

Hugh M.S. Lovel Blairsville, Ga.

One argument used to discredit the French homeopathic experiments seems weak: that Benveniste's lab is supported by a homeopathic drug company. Aren't most studies of synthetic drugs also supported by drug companies with vested interests? It now costs up to \$125 million to prove a drug safe and efficacious in the United States. Much of that money goes from drug companies to drugtesting firms.

Jim Duke Beltsville, Md.

SEPTEMBER 3, 1988 147