

SCIENCE NEWS

The Weekly Newsmagazine of Science

A Science Service Publication
Volume 123, No. 17, April 23, 1983

| | |
|---------------------------------|-------------------------------------|
| E. G. Sherburne Jr. | Publisher |
| Joel Greenberg | Editor |
| Dietrick E. Thomsen | Senior Editor/ Physical Sciences |
| Judy Klein | Assistant Editor |
| Wray Herbert | Behavioral Sciences |
| Joan Arehart-Treichel | Biomedicine |
| Linda Garmon | Chemistry |
| Cheryl Simon | Earth Sciences |
| Julie Ann Miller | Life Sciences |
| Janet Raloff, Ivars Peterson | Policy/Technology |
| Jonathan Eberhart | Space Sciences |
| Joanne Silberner | Assistant to the Editor |
| Ileana Mendez | Art Director |
| Pamela Taulbee | Science Writer Intern |
| Jane M. Livermore | Books |
| Donald R. Harless | Business Manager |

Scherago Associates Advertising
Fred Dieffenbach, Sales Director
1515 Broadway, New York, N.Y. 10036

Copyright © 1983 by Science Service, Inc.,
Editorial and Business Offices,
1719 N St., N.W., Washington, D.C. 20036.
Replication of any portion of SCIENCE NEWS
without written permission of the publisher is
prohibited.

Subscription Department
231 West Center Street, Marion, Ohio 43302

Subscription rate: 1 yr., \$27.50; 2 yrs., \$47.50; 3
yrs., \$67.00. (Foreign postage \$5.00 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. 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

Science on the Air

Science News prints the latest written word of scientific development and noteworthy news. We've set this space aside to inform our readers of programs of scientific interest that are scheduled on television and radio. Check your local listings for exact times. (R) indicates a repeat broadcast.

- **May 1 (PBS) "Faces of Medicine"** is a profile of Judah Folkman of Boston's Children's Hospital and his roles as surgeon, scientist and teacher.

- **May 13 (PBS) "Most Endangered Species . . . Dr. Denton Cooley"** profiles the noted heart surgeon and chronicles his treatment of a 7-year-old Filipino boy with four congenital heart defects.

Series

- (PBS) **"Here's to Your Health":** **May 7 "Hypertension: Your Blood Pressure is Showing"** examines ways in which high blood pressure can be avoided or, at least, controlled; **May 14 "Exercise: Shaping Up"** discusses the role of exercise in adding years to our lives; **May 21 "Obesity and the Slimming of America"** looks at the importance of calories to weight and of weight to health; **May 28 "Smoking . . . Hazardous to Your Health"** takes a look at what medical science really knows about the effects of smoking.

This Week

- 260 A Pure Laser for Clean Communications
- 261 Desickling cells without chemicals
- 261 How stress causes high blood pressure
- 261 Sponge gets OK
- 262 As crust is born, new sonar system allows ridge-side view
- 262 Second Superfund buyout proposed: A Missouri dioxin site
- 263 'Possum championed as new guinea pig
- 263 Interstellar grains found in meteorite

Research Notes

- 271 Biology
- 271 Earth Sciences

Articles

- 266 More Than One Way to Skin a Black Hole
- 268 A Brain for All Seasons

Cover: Adult hawk moth vibrates wings rapidly in preparation for take-off. The extreme specialization of the moth life cycle makes it valuable to biologists studying development. They have recently discovered how sex-specific characteristics of one brain region are determined. (Photo courtesy of John Hildebrand, Columbia Univ.)

- 270 Times Beach: The Long Road to Recovery

Departments

- 258 Books
- 259 Science on the Air

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*, Milton Harris; *Secretary*, Julius Duscha; *Joseph W. Berg Jr.*; *Edward Bliss Jr.*; *Bowen C. Dees*; *David A. Goslin*; *Hilleary F. Hoskinson*; *Elizabeth F. Neufeld*; *O. W. Riegel*; *Willis Harlow Shapley*; *H. Guyford Stever*; *John Troan*; *Deborah P. Wolfe*.

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

