

SCIENCE NEWS®

The Weekly Newsmagazine of Science

A Science Service Publication
Volume 129, No. 17, April 26, 1986

E.G. Sherburne Jr.	Publisher
Joel Greenberg	Editor
Dietrick E. Thomsen	Senior Editor/ Physical Sciences
Laurie Jackson	Managing Editor
Wendy McCarren	Production/Design Director
Bruce Bower	Behavioral Sciences
Joanne Silberner	Biomedicine
Stefi Weisburd	Earth Sciences
Julie Ann Miller	Life Sciences
Janet Raloff, Ivars Peterson	Policy/Technology
Jonathan Eberhart	Space Sciences
Susan Welch Gilday	Assistant to the Editor
Lisa Davis	Science Writer Intern
Jane M. Livermore	Books
Donald R. Harless	Advertising/Business Manager

Copyright © 1986 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., \$29.50; 2 yrs., \$50.00.
(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., 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

Books

Books is an editorial service for readers' information.
To order any book listed or any U.S. book in print
please remit retail price, plus \$1.00 handling charge
for each book, to **Book Order Service**, Science News,
1719 N Street, N.W., Washington, D.C. 20036. All
books sent postpaid. Domestic orders only.

The AI Business: The Commercial Uses of Artificial Intelligence — Patrick H. Winston and Karen A. Prendergast, Eds. Papers from a colloquium held at the Massachusetts Institute of Technology, presented by experts in artificial intelligence (AI) and financial specialists, explain what AI is and how far the technology has moved out of the university research laboratories into business applications. Concentrates on four areas—expert systems, robotics, natural language and venture capital. Originally published in hardback in 1984. MIT Pr, 1986, 324 p., illus., paper, \$9.95.

Alone in America: The Search for Companionship — Louise Bernikow. Explores the phenomenon of loneliness, probes the reasons for our aloneness and discusses the ways we look for companionship in a society that does not easily foster personal connections. Har-Row, 1986, 255 p., \$15.95.

APRIL 26, 1986

This Week

- 260 Making Blood Share More of Its Oxygen
- 260 Launch problems spread to DOD
- 261 Pinpointing solar-cell efficiency
- 261 Hominid 'caches' get bone-wear boost
- 262 Keeping a step ahead of immunity
- 262 Stopping a killer with interferon?
- 262 The attraction and repulsion of gravity
- 263 A century after the Charleston quake

Research Notes

- 264 Chemistry
- 265 Biomedicine
- 265 Earth Sciences

Articles

- 266 Who's the Boss?

Departments

- 258 Science on the Air
- 259 Letters
- 268 Commentary

Cover: Scientific realism is often held to be incompatible with theology, but some philosophers are trying to work out a realistic philosophy that would include both science and theology in its purview.



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*; *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.

Annual Review of Entomology, Vol. 31 — Thomas E. Mittler, Ed. Articles range from a discussion of fossil oribatid mites to the microbial control of black flies and mosquitoes. Annual Reviews, 1986, 555 p., illus., \$31.

The Essential Guide to Generic Drugs — M. Laurence Lieberman. Discusses manufacturing and marketing drugs, quality assurance of drugs, drug regulation and your prescription. The main portion of the book is a listing of drugs by generic name, cross-referenced by brand name. Gives information on each drug's use, when to avoid using it, major side effects and how much money can be saved on generic use. Har-Row, 1986, 326 p., \$17.95, paper, \$8.95.

High-Yield Gardening: How to Get More From Your Garden Space and More From Your Gardening Season — Marjorie B. Hunt and Brenda Bortz. Using special techniques collectively known as high-yield or intensive gardening, the authors explain and illustrate how to harvest more from less space and with less effort. These techniques also allow the gardener to stretch the growing season for a nearly year-round harvest. Rodale Pr, 1986, 403 p., illus., \$21.95.

Orbiting the Sun: Planets and Satellites of the Solar System — Fred L. Whipple. A new and enlarged edition of *Earth, Moon, and Planets* by this astronomer who has spent his life studying our solar system. This book presents for the general reader the major results of the U.S. and Russian space missions and provides a basic foundation in astronomy. Originally published in hardback in 1981. Harvard UPr, 1986, 338 p., color/b&w illus., paper, \$7.95.

What is America Eating?: Proceedings of a Symposium — NRC Food and Nutrition Board. This report of the symposium held in December 1984 reviews data on eating patterns over the past two decades based on information from two surveys conducted by the Departments of Agriculture and Health and Human Services. Presents the implications of these data for the nutrition and health status of the U.S. population. Factors that shape eating patterns are discussed along with eating trends and implications for nutrition, with emphasis on socioeconomic groups that are at nutritional risk. Explores the roles of policymaking bodies and the food industry in nutrition research and education. Natl Acad Pr, 1986, 173 p., charts & graphs, paper, \$14.95.

259