A Science Service Publication Volume 130, No. 17, October 25, 1986

E.G. Sherburne Jr. Joel Greenberg Dietrick E. Thomsen

Laurie Jackson

Publisher Editor Senior Editor/ Physical Sciences Managing Editor Wendy McCarren Production/Design Director Behavioral Sciences

Bruce Bower Joanne Silberner Stefi Weisburd Lisa Davis Janet Raloff, Ivars Peterson Jonathan Eberhart Richard Monastersky

Biomedicine Earth Sciences Life Sciences Policy/Technology Space Sciences

Assistant to

the Editor Science Writer

Ivan Amato. Trina Kleist Jane M. Livermore Donald R. Harless

Books

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

#### **This Week**

260 When Antipsychotic Drugs Can Be Lethal 260 First cancer-protecting gene characterized 261 Muscular dystrophy gene cornered Pole's ozone hole: Who NOZE? 261 262 Chemistry: Probing reaction dynamics 262 Physics: Tiny world garners grand laurels 263 Getting to the bottom of supermassive black holes 264 Late-night legislation: New laws include revised Superfund

# **Research Notes**

265 Anthropology 265 Chemistry

# **Articles**

266 On the Threshold of Cherenkov Astronomy 268 Stems and Seeds: Grasses in the Fossil Record

Cover: "Growing Corn," a wood engraving by Paul Hambleton Landacre (1893-1963), is part of an exhibit of drawings, watercolors and prints of grasses that accompanied a recent scientific symposium on grasses at the Smithsonian Institution in Washington, D.C. The exhibit will travel to Pittsburgh, Hays, Kan., Pacific Grove, Calif., and other cities. (Engraving on loan from the Hunt Institute for Botanical Documentation, in Pittsburgh. Photo by Chip Clark, Smithsonian Institution.)



# **Departments**

258 Science on the Air

258 **Books** 259 Letters

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; David Hann; Milton Harris; Elena O. Nightingale; O.W. Riegel; H. Guyford Stever; John Troan;

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

# Letters

# Nothing but the truth

You say researcher Eric Eich has come up with a system of "asymmetric amnesia" to use as an indicator of feigned multiple personality, and psychologist Michael McCloskey still finds no handy guide to distinguish real from simulated amnesiacs ("'Limited amnesia': Fair or foul?" SN: 9/6/86, p. 152).

There is a simple test that is quite useful for both feigned amnesia and multiple personality, and which is commonly used by psychologists who have a working friendship with a psychiatrist: Inject sodium amytol and then do questioning to ascertain previous veracity.

> Ken Naysmith Highland, Calif.

### **Extinction: The next wave**

The upcoming biological extinction wave that is going to hit this planet in the next 20 to 40 years ("Biological diversity: Going ... going ...?" SN: 9/27/86, p. 202) is much more important to the human race than about 97 percent of the past 20 issues of Science News. I do not mean to be snippy. It's just that an awful lot of research and policymaking can be done just as well one, three, five and 10 years from now as now, but if the academic and research community lets the tropics slide under, that is irreversible and cannot be picked up later when we start to regret it. To be quite crass about it, you can grow new humans anytime, but once biological diversity has been snuffed out, you can't get it back.

And in that very important way, the upcoming extinction crisis is not like the previous ones, even the one that knocked out 97 per-

cent of the animal world (according to S.J. Gould). Humanity is not going to turn around and give the planet back to the other species so that they can get busy reinventing all the extinguished species.

Daniel H. Janzen Professor of Biology University of Pennsylvania Philadelphia, Pa.

Address communications to Editor, Science News 1719 N Street, N.W. Washington, D.C. 20036 Please limit letters to 250 words.

**OCTOBER 25, 1986** 259