SIEKE NEWS®

The Weekly Newsmagazine of Science

A Science Service Publication Volume 135, No. 23, June 10, 1989

E.G. Sherburne Jr. Patrick Young Laurie Jackson Janice Rickerich Bruce Bower Ivan Amato

Ivan Amato

Richard Monastersky
Janet Raloff
Kathy A. Fackelmann,
Rick Weiss,
Ingrid Wickelgren
Ivars Peterson
Jonathan Eberhart
Liz Marshall

Wendy McCarren Donald R. Harless

Fave Flam

Publisher Editor Managing Editor Production/Design

Director

Behavioral Sciences Chemistry/ Materials Science Earth Sciences Environment/Policy Life Sciences/ Biomedicine

Mathematics/Physics Space Sciences Editorial Assistant Science Writer Intern

Books/Resource Manager Advertising/Business Manager

Copyright © 1989 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. POSTMASTER: Send address changes to Science News, 231 West Center Street, Marion, OH 43305. 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

356

000	Hale Allino Acids Support impact Theory
356	Sperm capture genes to create new life
357	Scientists find new HIV-host subtleties
357	High 'I do' blood-test dues
357	Gene test foretells Type I diabetes risk
358	Catching a light ride on a plasma wave
358	Bye-bye Alar
358	Diverse recipes shine in the sun's corona
359	Schizophrenia gene: A family link fades
359	Questioning the cooling effects of volcanoes
359	Serum albumin seen in three dimensions
358 359 359	Diverse recipes shine in the sun's corona Schizophrenia gene: A family link fades Questioning the cooling effects of volcand

Rare Amino Acids Support Impact Theory

Research Notes

366	Biomedicine
366	Chemistry
367	Environment
367	Physical Sciences

Articles

360 Backward Genetics364 Avian Altruism

Cover: Home for the gregarious African bee eater is a hollowedout burrow in the eroded cliff wall of a river bed. These birds live in multigenerational clans and usually mate for life. Through direct observation of birds fitted with leg bands and color-coded wing tags, scientists have found that mated bee eaters often enlist relatives to help them rear young nestlings. Such altruistic behavior entails a cost for the "helper" but benefits the family as a whole. (Photo: Natalie J. Demong)



Departments

354 Books 355 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; Joseph W. Berg Jr.; Edward Bliss Jr.; Robert W. Fri; David A. Goslin; J. David Hann; Milton Harris; Leon M. Lederman; Elena O. Nightingale; Ben Patrusky; H. Guyford Stever; Deborah P. Wolfe. Honorary Trustees — Bowen C. Dees; O.W. Riegel; John Troan.

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

Letters

AIDS counseling crucial

The excerpt of a quotation attributed to me in "Mail-Order AIDS Tests" (SN: 4/29/89, p.268) inadvertently carries an implication that I did not intend and is not accurate. The full sentence in the statement I submitted to the FDA on behalf of the College of American Pathologists reads as follows:

"Of even greater concern, however, is the profound medical, emotional and psychological impact of a positive result upon an individual who may be presented with what he or she assumes to be a virtual sentence of death without the advice and support of a competent and experienced professional."

It is true that the great majority of individuals who are shown after careful repeated testing and confirmatory testing to be HIV-antibody positive will eventually develop clinical manifestations of AIDS or related

disorders. Although at present most of these unfortunate patients will eventually succumb to AIDS, with appropriate medical care the time period for this progression may be as long as 10 years.

The intent of my statement was to point out that, in the absence of adequate counseling, the individual receiving a "positive" but unconfirmed test result may incorrectly believe he or she has received a "virtual sentence of death," and inappropriate and self-damaging acts may result.

The College strongly believes that at the present time, AIDS testing must take place within a public health and medical framework in which confidentiality, face-to-face counseling and careful laboratory testing are guaranteed.

Paul Bachner, M.D. Chairman, AIDS Task Force College of American Pathologists Port Chester, N.Y.

SCIENCE NEWS article honored

Steve Eisenberg, a SCIENCE News intern during the spring of 1988, will receive first prize from the Institute of Food Technologists "for outstanding writing on a food science or technology topic for 1988." Eisenberg won the award, consisting of \$1,000 and an engraved plaque, for the article "Looking for the Perfect Brew" (SN: 4/16/88, p.252).

The article examined the controversy over caffeine's health effects and detailed the difficulties in interpreting epidemiologic studies of tea and coffee drinkers.

Eisenberg, currently a reporter for the Ann Arbor (Mich.) News, also won a runner-up award for the article "Diet Supplements: Wisdom or Folly?" published in the News on Oct. 6, 1988. The institute will present the awards June 26 at its annual meeting in Chicago. The contest drew 103 entries.

JUNE 10, 1989 355