

# Science<sup>®</sup> News

A Science Service Publication  
Vol. 105/March 30, 1974/No. 13  
Incorporating Science News Letter

## Of the Week

Mercury at last	204
Oldest lunar rock	205
Slingshot to Saturn	205
Subsea wellheads	205
Energy vs. environment	206
Quark theory disintegrating	207

## Research Notes

Behavior	208
Oceanography	208
Astronomy	209
Environment	209

## Articles

Culturing blood cells	210
Electricity from trash	212

## Departments

Books	202
Letters	203
Off the Beat: Obfuscation	214

**Cover:** Trash piles up and up on the curbs and in the alleys of the nation. America, the least frugal of nations, makes more garbage than most. Yet under the crud is a source of energy. The combustibles in trash can be burned to make electricity. A project in St. Louis is the first large-scale attempt to do it. See p. 212.

<b>Publisher</b>	E. G. Sherburne Jr.
<b>Editor</b>	Kendrick Frazier
<b>Senior Editor and Physical Sciences</b>	Dietrick E. Thomsen
<b>Senior Editor and Behavioral Sciences</b>	Robert J. Trotter
<b>Biological Sciences</b>	Joan Arehart-Treichel
<b>Science and Society</b>	John H. Douglas
<b>Space Sciences</b>	Jonathan Eberhart
<b>Writer/Copy Editor</b>	Lisa J. Shawver
<b>Design/Production</b>	Dale Appleman
<b>Assistant to the Editor</b>	Esther Gilgoff
<b>Books</b>	Margit Friedrich
<b>Advertising</b>	Scherago Associates, Inc. 11 W. 42nd St. New York, N.Y. 10036 Fred W. Dieffenbach Sales Director

Copyright © 1974 by Science Service, Inc., 1719 N St., N.W., Washington, D.C. 20036. Reproduction of any portion of SCIENCE NEWS is strictly prohibited.

**Subscription Department**  
231 West Center Street  
Marion, Ohio 43302

Subscription rate: 1 yr., \$10; 2 yrs., \$18; 3 yrs., \$25. (Add \$2 a year for Canada and Mexico, \$3 for all other countries.) Change of address: Four to six weeks' notice is required. Please state exactly how magazine is to be addressed. Include zip code.

Printed in U.S.A. Second class postage paid at Washington, D.C. Established as Science News Letter in mimeograph form March 13, 1922. 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). Cable SCIENSERV.

March 30, 1974

# To the Editor

## Dinosaur distortions

Lovers of vertebrate fossils, in general, and students of the dinosaurs, in particular, are enthusiastically attempting to remove my hide. Before they are successful in nailing it (my hide) to the barn door, we should correct several inaccuracies in your article about our dinosaur find (SN: 3/9/74, p. 159).

*Tyrannosaurus rex*, *Allosaurus*, and *Triceratops* should never be referred to in the same breath without qualification. The fossil remains of *Allosaurus* and *Stokesosaurus* are separated from those of *Tyrannosaurus* and *Triceratops* by approximately 50 million years and thousands of feet of sediment. *Stokesosaurus* does appear to be the first new genus of dinosaur from the Morrison Formation of Utah in about 75 years, but most assuredly not the first new dinosaur described in 75 years.

The Morrison Formation contains the largest dinosaur graveyards in the United States, but, alas, the Cleveland-Lloyd Quarry is not the largest.

*Stokesosaurus* is not necessarily a close relative of *Tyrannosaurus*; it is inferred, instead, that the median vertical ridge on the ilium is a character similar to one noted on the homologous element of some tyrannosaurs (dinosaurs, including *Tyrannosaurus*, of the Family Tyrannosauridae). It would be foolish for us to infer a close relationship with other dinosaurs at this time. That must wait until more original material can be definitely assigned to the new "type"—we still know very little about this interesting dinosaur, even though certain broad interpretations are reasonable and defensible.

James H. Madsen, Jr.  
Assistant Research Professor  
The University of Utah  
Salt Lake City, Utah

(We regret the errors—Ed.)

## Double double, Shakespeare trouble

Your article on fossil fuels (SN: 2/2/74, p. 77) contains a horrible mistake. You not only misquote Shakespeare from Macbeth but also attribute the quote to the wrong character.

The original quote is said by Macbeth (Act I; Scene VII; line 1) "If it were done when 'tis done, then 'twere well it were done quickly."

I would advise you to stick to science and forget about literature.

Alan Lichtenstein  
New York, N.Y.

(Sorry! Its 20 years since we played in Macbeth. We won't forget about literature, but from now on we will check our memories. Was reader Lichtenstein the only one who noticed?—Ed.)

## Life-scripting by names

In his latest book *What Do You Say After You Say Hello?* Eric Berne made some very interesting explanatory comments on how people get life-scripted by the names they are given (see especially pages 77-79). This matter is of great importance to people who have such names, and to those who meet them. Berne refers to two neurologists, H. Head and W. R. Brain, and I will add a psychiatrist at Stanford, William C. Dement, and the Director of the San Bernardino County Air Pollution District, John Fairweather. Joe Herring works for Louisiana Fish and Game Department, Harvey Duck is boating editor for Chicago Daily News, Jim Crowe is outdoor editor for Detroit News, Pat Snookfield editor for Argosy, Lathan Moose is North Carolina Wildlife Commissioner and has a Dennis Eagle working for him, Junior Beaver once worked for Illinois Wildlife Federation and Fred Bear was a famous archer.

I hope you will publish this in "To the Editor" because so far all the "name game" letters that I have seen have been amusement oriented as if only chance were involved.

Leonard L. Lewis  
Berkeley, Calif.

With regard to "It's All in the Name," I had a philosophy of science course with a Dr. Wisdom in my student days at Temple University, and never doubted whether someone with such a name could be anything but a philosopher.

Mrs. Albert E. Meier  
Philadelphia, Pa.

Address communications to Editor,  
Science News, 1719 N Street, N.W.  
Washington, D. C. 20036

## SCIENCE SERVICE

Institution for the Popularization of Science founded 1921; a nonprofit corporation

**Board of Trustees**—Nominated by the AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE: **Athelstan Spilhaus**, National Oceanic and Atmospheric Administration; **Deborah Partridge Wolfe**, Queens College of City University of New York; **Bowen C. Dees**, The Franklin Institute. Nominated by the NATIONAL ACADEMY OF SCIENCES: **Frederick Seitz**, Rockefeller University; **Gerald F. Tape**, Associated Universities; **Allen V. Astin**, National Academy of Sciences. Nominated by the NATIONAL RESEARCH COUNCIL: **Glenn T. Seaborg** (President), University of California, Berkeley; **Gerald Holton**, Harvard University; **Joseph W. Berg Jr.**, National Research Council. Nominated by the JOURNALISTIC PROFESSION: **O. W. Riegel** (Secretary), Washington and Lee University; **Norman Cousins**, "World"; **Julius Duscha**, Washington Journalism Center. Nominated by the E. W. SCRIPPS TRUST: **John Troan**, Pittsburgh Press; **Milton Harris** (Treasurer), Washington, D.C.; **Edward W. Scripps II** (Vice President and Chairman of the Executive Committee), Edward W. Scripps Trust.

Director: E. G. Sherburne Jr.; Assistant Director: Dorothy Schriver; Business Manager: Donald R. Harless; Things of Science: Ruby Yoshioka.

203