Science

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.

Publisher Editor

E. G. Sherburne Jr. Kendrick Frazier

Senior Editor and

Physical Sciences Dietrick E. Thomsen Senior Editor and

Behavioral Sciences Robert J. Trotter Biological Sciences Joan Arehart-Treichel Science and Society John H. Douglas Space Sciences Jonathan Eberhart Writer/Copy Editor Lisa J. Shawver Design/Production Dale Appleman Assistant to the Editor Esther Gilgoff **Books** Margit Friedrich Advertising

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. Republication 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 USA Second allowed.

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 SER-VICE, Inc., 1719 N St., N.W., Washington, D.C. 2003. (202-785-2255). Cable SCIENSERV.

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 Tyran-nosaurus, 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 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 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; Developed (Secretary), Washington Lee University; Norman Cousins, "World"; Julius Duscha, Washington Journalism Center. Nominated by the E. W. SCRIPPS TRUST: John Troan, Pittsburph 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.

March 30, 1974