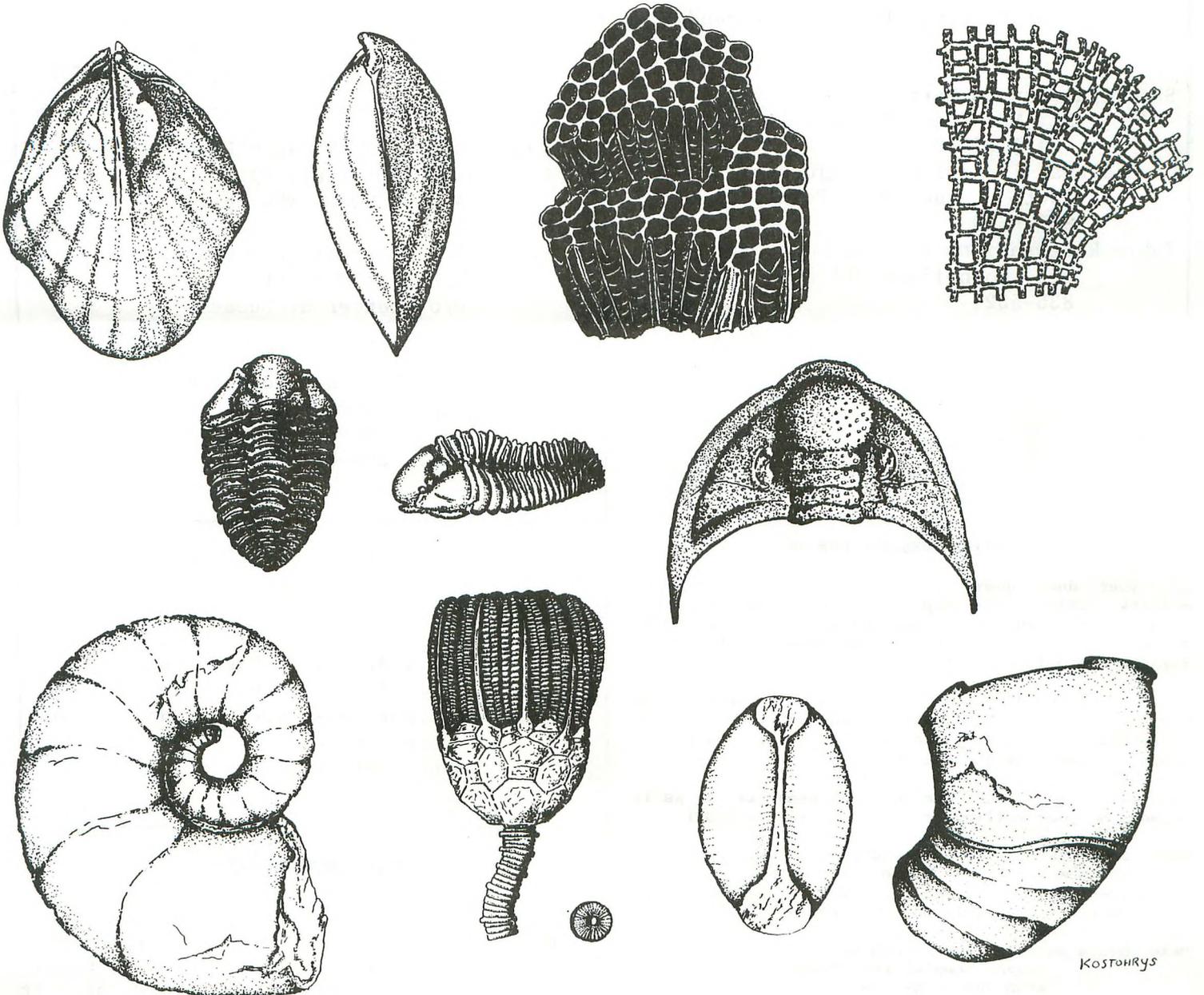


M.A.P.S. *Digest*

Official Publication of
Mid-America Paleontology Society

Volume 16 Number 3
March, 1993



MARK YOUR CALENDARS

16 APR 1993 MAPS NATIONAL FOSSIL
17 EXPOSITION XV--EXTINCT
18 ECHINODERMS

Fri., Apr. 16: 8am - 6pm
(**Keynote Speaker** Dr. Thomas
Broadhead, University of
Tennessee, on Primitive Stalked
Echinoderms--7:45 p.m.)

Sat., Apr. 17: 8am - 5pm
(Business meeting and auction
following)

Sun., Apr. 18: 8am - 3pm
(**Seminar** on primitive stalked
echinoderms by Dr. Broadhead,
beginning at 9.00 a.m. Sunday)

Show Chairman is Marvin Houg, 3330 44th
St. NE, Cedar Rapids, IA 52402
(319) 395-0577.

Co-Chairman is Karl Stuekerjuergen, 1503
265th Avenue, West Point, IA (319)
837-6690

Table Reservations to Doug DeRosear, Box
125, Donnellson, IA 52625 (319)
835-5521

9 OCT 10th ANNUAL BVFS FLORIDA FOSSIL
10 FAIR: "YEAR OF THE MANATEE,"
WINTER HAVEN COMPLEX

210 Cypress Gardens Blvd., S.E.
corner of Cypress Gardens Blvd.,
& U.S. 17.

Sat.--9 am to 7 pm
Lecture at 3 pm by Dave Letasi
Auction around the clock
Sun.--9 am to 5 pm

Contact: Ed Holman
2704 Dixie Road
Lakeland, FL 33801
813/665-3426
or Marcia Kehler, 813/644-3778

13 OCT SVP 53RD ANNUAL MEETING
14 (SOC. OF VERT. PALEO.)
15 ALBUQUERQUE, NEW MEXICO
16

For information contact:
SVP Host Committee
c/o Spencer G. Lucas
NM Museum of Natural History &
Science
1801 Mountain Road N.W.
Albuquerque, NM 87104
ph.: 505-841-8837
fax: 505-841-8866

*** 93/03 DUES ARE DUE ***

Are your dues due? You can tell by checking your mailing label. The top line gives the expiration date in the form of year followed by month--93/03 means 1993/Mar. Dues cover the issue of the *Digest* for the month in which they expire.

We do not send notices but will let you know if you are overdue by highlighting your mailing label on your *Digest*. We carry overdues for two months before dropping them from our mailing list.

Please include your **due date** and **name exactly as it appears on your mailing label**--or include a label.

Dues are \$15 per U.S./Canadian household per year. Overseas members may choose the \$15 fee to receive the *Digest* by surface mail or a \$25 fee to receive it by air mail. Library/Institution fee is \$25.

Make checks payable to **MAPS** and mail to:
Sharon Sonnleitner, Treas.
4800 Sunset Dr. SW
Cedar Rapids, IA 52404

17 APR 1994 MAPS NATIONAL FOSSIL
18 EXPOSITION XVI
19

Fri., Apr. 17: 8am - 6pm
Sat., Apr. 18: 8am - 5pm
(Business meeting and auction
following)
Sun., Apr. 19: 8am - 3pm

CAN ANYONE HELP?

Glen Kuban, 14139 Pine Forest Dr., Apt.
310, North Royalton, OH 44133, (216) 237-
4508, is trying to locate Fossil
Reproductions or George Paul Schmidt. If
you can help, please let Glen know.

EXPO XV--EXTINCT ECHINODERMS

By the time this Digest reaches you there will be only 2-3 weeks left until EXPO. Doug DeRosear reports that all tables both inside and outside the ballroom are already taken, and further table space is on standby only.

You will not want to miss the Friday night keynote address and Sunday's seminar, both given by Dr. Thomas Broadhead, University of Tennessee. Remember, too, to contribute a quality specimen to Saturday's live auction and plan to attend to snatch up a bargain. The auctioneers are entertaining also.

We hope to see many of you in Macomb April 16-18!

ABOUT THE COVER

by: Jim Kostohrys, Des Plaines, IL 60016

(The cover drawings of Silurian fossils are done mostly from actual specimens in Jim's collection. Ed.)

At the top left is a brachiopod--*Pentamerus*, which is common in a lot of Silurian exposures. Mostly found as an internal cast, ones like this external shell are found in Door County, Wis., and other localities. Next is the tabulate coral *Favosites* showing some cross section. Thornton, Ill. The fan shape is the bryozoan *Fenestrellina* greatly enlarged. I used an enlargement in another book to draw this (about 12x).

In the second row is the top and side view of a *Calymene* trilobite, Kankakee, Ill. Next is a hear (cephalon) of *Dalmanites*. Eyes are broken on this specimen.

Third row is the nautiloid *Gigantoceras* from the Lemont, Illinois, area. These are the largest nautiloids found in this area. The crinoid is probably *Eucalyptocrinus* and is more of a restoration than drawing of an actual fossil. I have a partial calyx from Kankakee, Ill., and based the rest of the drawing on *The Fossil Book* by Fenton. Last is a front and side view of the cephalopod *Phragmoceras* from Lemont, Ill.

EXPO POSTAL CANCEL

As noted in the February *Digest*, EXPO will again have a postal station issuing a commemorative cancel. A special commemorative envelope will also be available. If you're not attending the show, you can order postmarked commemorative envelopes from Tony Verdi, 1225 Ledge Rd., Hinckley, OH 44233 for \$1.25/envelope. You can also get the special cancel by sending a self-addressed stamped envelope or postcard to: Post-master, Macomb, IL 61455; on the outside envelope write "MAPS EXPO cancel." Tony says the post office has been getting about 300 requests for the cancel each year.

HAROLD C. SCHMAL PASSES AWAY

Harold C. Schmal died January 4, 1993. He was 88 years old. He drove on fossil trips up until his 88th birthday, when he had to turn over driving to his step-daughter Dottie Dow, who is also a MAPS member. Our sincere condolences to his family.

HELP WANTED FOR KANSAS 4-H
STATE GEOLOGY FIELD TRIP

Approximately 400 youth and adult sponsors will participate in a 4-H field trip in several eastern Kansas counties from June 11-13. A letter from Elizabeth Hemphill, Coordinator, invited MAPS participation in the event and donations of cash and/or merchandise to help reduce the cost per participant. If anyone is interested in offering assistance, contact Elizabeth at 1679 N. 600 Road, Baldwin City, KS 66006, (913) 594-3356.

SEDIMENTARY NOTES

Richard Heimlich, 30321 Northgate, Southfield, MI 48076 writes: *Last year at MAPS EXPO I had two valuable mesosaur fossils stolen from me while I was taking one of several loads out Saturday night. Take precautions; cover your fossils while you are away from your table; have a friend watch for you. If you have had anything stolen from you at MAPS EXPO in the past, contact me.*

AUGUSTANA'S ANTARCTIC DINOSAUR

source: *The Dispatch*, Moline, Illinois, December 30, 1992

sent by: Tom Walsh, Coal Valley, Illinois

Augustana College, Rock Island, Illinois, is the home of a new species of meat-eating dinosaur discovered in Antarctica and dating back 200 million years. Dr. William Hammer, Augustana College paleontologist and MAPS member, and his colleagues found the fossil during a 1990 expedition. It is the first dinosaur found on the Antarctic mainland and lends support to the theory that dinosaurs once roamed freely on all continents.

More than half of the dinosaur's skeleton was found on the icy slopes of Mount Kirkpatrick, which is about 400 miles from the South Pole. Hammer was able to ship back about 4,000 pound of the fossil-bearing rock. He and Bill Hickerson, who works for the National Science Foundation, have been preparing and studying the specimen since its arrival at Augustana in March, 1991.

Dr. Hammer has been researching other fossils and talking to paleontologists around the world in his study of the nearly complete skull. A crest on the top of the dinosaur's head is the feature that led Hammer and Hickerson to conclude that the fossil must be a new species since their research shows no other dinosaur with the distinctive crest.

Hickerson prepares drawings of the new dinosaur from the bones he uncovers. He has taken the body off another dinosaur and put the head of the new on it to depict what he believes the beast looked like. It appears to be most similar to the 30-foot-long meat-eating allosaurus. Hammer says the two dinosaurs are similar in size and the general way they adapted to the environment.

Hickerson believes the dinosaur probably lived in a moderate climate on Gondwanaland, the southern supercontinent that included Antarctica, and probable roamed wooded areas with conditions similar to those of today's states of Washington or Oregon.

In the spring Hammer plans to publish an article naming the new dinosaur. He then plans to study the climate of Antarctica at the time of the dinosaur's existence to see if temperatures were warmer at that time or if temperatures were extreme. And if they were extreme, he wants to learn how the dinosaurs survived in those conditions.

Several other fossil fragments were also found with the dinosaur, including the top of a plant-eating dinosaur's foot. This, too, could be a new species. Also uncovered were one piece of a pterosaur, an isolated tooth of an animal related to the modern mammal, and several teeth possibly from a small meat-eating dinosaur.

The matrix has been removed from approximately half the fossils brought back, but it could take several more years to prepare all the bones. The crested dinosaur is unique not only because it is new, but also because preservation of an entire animal from the Jurassic period is rare. Dr. Hammer says it is amazing to find rock that old above the surface in ice-covered Antarctica.

Most MAPS meetings are held at Augustana, and both Dr. Hammer and Bill Hickerson gave programs at our meetings this past year. Members attending one of the meetings were treated to a visit to the lab where the Antarctic fossils are being prepared, and we were able to get an up-close look at the fossils and the drawings Bill Hickerson has made in his efforts to determine how the dinosaur looked.

Some of us also had the opportunity to see the skull when it was brought to the GSA (Geological Society of America) section meeting in Iowa City, Iowa, last spring.

DIGEST--PLEASE NOTE

February's *Digest* was delayed in printing, so I delayed the March issue to allow members to get dues in after receiving the February issue. Next issue will be mailed from EXPO. Next regular issue (May) will be mailed around mid-May.

NEWS NOTES CONCERNING EFFORTS TO RESTRICT FOSSIL COLLECTING

by: John Boland, MAPS member

ALERT, ALERT: BAUCUS BILL S-3107 COMING AROUND AGAIN

Senator Baucus (D-MT) introduced a bill late last year to basically substitute the word "Vertebrate Paleontology" in place of "Archaeology" in the Archaeological Resources Act of 1976. That bill replaced the Antiquities Act of 1906 which stated that fossil *in situ* with artifacts could not be collected without a permit. Currently, the BLM is using the 1906 Act to control all fossil collecting on public lands (federal highways, navigable river banks, and western range lands), but several federal court cases stated it is not applicable.

In 1989-1990 negotiating meetings were held with representatives of all groups in an effort to agree on new federal regulations based on three years of negotiations by the National Academy of Science, which produced ten recommendations. Many regional land managers and some museums objected after seeing the text. In 1992, Senator Baucus was asked to write a bill, S-3107, by the Society of Vertebrate Paleontologists. Amateurs flooded Senator Baucus and legislators' offices with letters and phone calls and the bill was held up in committee according to the Baucus representative.

The Association of Systematics Collections--ASC (represents museums)--called a meeting on January 8th with scientific personnel and another on February 22nd with BLM, Forest Service, Park Service, paleontologists, museums, commercial collectors, amateurs, and Senator Baucus's representative. Bob Cranston, Secretary of American Lands Access Assoc. (ALAA) and George Loud, AFMS C/L Committee attended. Senator Baucus's representative heard opinions expressed by BLM, Forest Service, museums, and paleontologists, that all fossils on federal land should be included in a bill like the Antiquities Act, which requires permits and professional and museum supervision to collect. Amateurs promise a big write-in and call-in campaign. The amateur position is that everyone should be able to casual-use collect all fossils with hand tools, like they can for rocks, minerals, and petrified

wood, on public lands. Again, amateurs need to flood your legislators, and Senator Baucus's offices with petitions and personal letters about S-3107. WRITE TO: Jan Campbell Miller, Senator Max Baucus Office, Washington, DC 20510, and to your legislators.

JUDGE RULES T. REX NOT INSTITUTE'S

That's the headline in the Rapid City Journal. On February 3rd. The federal judge ruled that the T. Rex named Sue does not belong to the Black Hills Institute. For now, the 65-million-year-old fossil, most of it still embedded in 10 ton of rock, will remain in storage at the South Dakota School of Mines. The Black Hills Institute paid the Indian farmer \$5000 for the fossil that was excavated from his land, which had been placed into Indian Trust. US District Attorney Schieffer argues that under the Antiquities Act, the government might be able to claim the fossil for the "benefit of recognized scientific or educational institutions." Schieffer said he wasn't sure but "that question needs to be resolved by the (Clinton) administration." Black Hills Institute says they will file an appeal. you can write to the new US Attorney General.

The Rapid City Journal also wrote about the grand jury investigation of the Black Hills Institute. The case involves illegal collecting from federally controlled land, a charge the institute owners vehemently deny.

The court subpoena requested documents and the Institute gave similar records to the Journal. The prosecutors alleged the Institute collected at least 65 specimens from federally controlled land or Indian reservations. The court order required the Institute to hand over records related to at least 39 separate fossils, 21 of which were allegedly found on Forest Service or BLM land in South Dakota, Wyoming and Montana. They also requested records on fossils found in Nebraska, Oklahoma and even Peru. They wanted information about

specimens collected as long ago as 1977 and demanded information on specimens collected on private land. Incidentally, the statute of limitations is five years.

RS 2477 ROADS & PUBLIC LAND ACCESS

The Revised Statute 2477 was originally passed in 1866 giving right-of-way over public lands. The courts have loosely interpreted the meaning of highways to include uses like foot traffic (trails), jeep trails, farm/ranch/mine-to-market roads as well as county, state, and federal highways provided they were unrestricted and used for public use. In 1976, the statute was repealed with the passage of the Federal Land Policy and Management Act (FLPMA); however, some exceptions were recognized.

Many of the roads that were grandfathered now lie in wilderness and other undeveloped public lands areas. The very roads, trails, and byways used by the hobbyists to gain access to our favorite collecting areas.

The BLM proposed holding hearings in Nevada and Alaska for their report to Congress. However, due to the public request for more time and hearings, they have increased hearing locations to Sacramento (4/6), Salt Lake City (4/7), Las Vegas (4/9), Boise (4/12), Fairbanks (4/13) and Anchorage (4/16). Additional information can be obtained from the BLM State Offices. Your comments should be directed by April 16th to: Utah BLM State Office R.S. 2477 Project, PO Box 45155, Salt Lake City, Utah 84145-0155, or call 9166/978-4746 or FAX 916/978-4430.

SIERRA CLUB WANTS MORE WILDERNESS IN SOUTH DAKOTA BLACK HILLS

In the February 20th issue of the Rapid City Journal, it was reported that the Sierra Club is lobbying the state's congressional delegation for 123,000 acres of wilderness in the Black Hills and the Badlands, an increase of nearly 196% from the club's earlier proposal. A recent newspaper article tells of how they are now attempting to stop the sale of timber in the Black Hills, according to Jan Baumeister, RMFMS-PLAC.

The areas designated to be put into wilderness are:

- Stagebarn Canyon, 7300 acres SW of Piedmont
- Indian Creek, 37,900 acres west of Scenic
- Red Shirt Canyon area, 9,900 acres east of Hermosa in Buffalo Gap Grasslands
- Cheyenne River area, another 9,600 acre area near Red Shirt Canyon
- Rake Creek Badlands, 16,700 acres adjoining the National Badlands

You can write to your legislators requesting continued multiple use, at Washington DC 20510 and to Senator Larry Pressler, Senator Tom Daschle, and Rip. Tim Johnson.

PRESIDENT CLINTON NAMES BLM MANAGERS

The BLM February 26th News Advisory stated that President Clinton nominated Jim Baca as Director of the Bureau of Land Management. He will oversee 270 million acres of public lands primarily in nine western states. he has worked as New Mexico's state land commissioner. Also nominated for Assistant Secretary for Land and Mineral Management was Bob Armstrong. he will oversee policy and activities for BLM, Mineral Management service, and the Office of Surface Mining. He was senior advisor for energy and natural resources to Texas Governor Ann Richards.

FOSSILS ARE FOR EVERYONE

by: Greg Retallack

U. of Ore. Prof. of Geology and MAPS member
excerpts from: *Newsweek*: January 11, 1993

One of the thrills of childhood is finding a fossil, a truly ancient relic of extinct life. There is sheer excitement in seeing the elegant outline of a seashell or the delicate tracery of veins on a leaf emerge after cracking open an ordinary-looking stone. Some of us never grow out of our childhood fascination with fossils and pursue careers in paleontology. Many others return to an interest in fossils during retirement. Now, however, fossil lovers of this country could find themselves frustrated by government regulators.

A bill (S3107) introduced last year by Max Baucus, Democrat of Montana, aims to restrict access to fossils from federal lands to selected university and museum scientists....

The costs to support such a program of permits and enforcement would be considerable. Federal agencies now issue few fossil-collecting permits at taxpayer expense. In New Mexico, a policy of preventing fossil hunting on federal lands is enforced by two officers with two four-wheel trucks and 10 guns. Taxpayers also paid for the recent seizure and transportation of a partly prepared skeleton of the dinosaur *Tyrannosaurus rex* by Acting U.S. Attorney for South Dakota Kevin Schieffer, in company with nine FBI agents, four national park rangers, two agents of the Department of the Interior, an agent from the Bureau of Indian Affairs, a highway patrolman, a deputy sheriff and troops of the South Dakota National Guard. This 10 tons of bone and rock was not going anywhere and was no secret to scientists or the public. It remains unclear why such a valuable specimen was subjected to damaging transportation before court determination of its ownership, after which it will now suffer an additional potentially damaging move. These are fossils, not drugs.

Baucus's bill was drafted to protect fossils of backboneed animals such as dinosaurs. But shark teeth common in many rocks would be protected as well as microscopic fossil teeth abundant in many limestones. Enforcement of the bill would thus be open to abuse....All this legislation is modeled on the Archeological Resources Protection Act of 1979, which was designed to stem the plunder of Native American archeological sites. There are profound differences between fossils and artifacts that make parallel legislation unwise.

Fossils are common and paleontologists are few. Some rocks such as limestone are made entirely of the calcareous skeletons of fossils. Almost all sedimentary rocks contain some kind of microfossils. While federal spending on paleontological litigation and enforcement is increasing, funding for paleontological research has dwindled. In such a political climate,

amateur and commercial collectors have become increasingly important for specimens and information that advance the science of paleontology. Baucus's bill would send that valuable resource underground.

Amateurs can help: The assumption in Baucus's proposed bill that amateurs are inept or unworthy is mistaken. Many important fossils and localities were initially discovered by amateur collectors, ranchers and quarry operators. All of the six existing skeletons of the most ancient bird fossil *Archaeopteryx* were found by quarrymen in southern Germany. The site for the fossil ape *Kenyanthropus* was discovered by a Kenyan farmer. Most professional paleontologists owe at least part of their success to amateurs.

The prologue to Baucus's bill portrays commercial collectors as ruthless profiteers, but private enterprise has long been important to paleontology. Natural-history cabinets since at least the 18th century have been stocked by commercial suppliers of specimens. Dinosaur displays in North American museums owe much to commercial collectors such as the famous Sternbergs of Kansas. We may suffer sticker shock when we see a mounted skeleton of the duck-billed dinosaur *Edmontosaurus* on sale for \$330,000 or the spiny trilobite *Dicranurus* for \$10,000. But museums in Tokyo, Cardiff and elsewhere have made comparable outlays, realizing that they could spend much more than this supporting less lucky collectors or less skilled preparators. Most unusually valuable fossils end up in public collections, either by donation, by will or by initial purchase.

Rare and scientifically valuable fossils turn up when people are actively collecting a lot of fossils. Articulated trilobites are prized as rare fossils, yet there is a quarry in the desert near Delta, Utah, that has yielded at least a half million trilobites per year to commercial collectors. The supply is far from exhausted. If you know what a trilobite is, it is probably because you have seen these small gray fossils in local-school teaching collections or for sale as curios, refrigerator magnets or bolo ties. Along with these millions of *Elrathia*, retailing

for some \$2 to \$6 apiece, have come a host of rarer kinds of trilobites and other kinds of fossils that would not have been available to professional paleontologists were it not for commercial interest in these quarries.

I am not the only paleontologist who feels that the proposed regulation of fossil collecting is unnecessary. In 1987 a committee of the U.S. National Academy of Sciences recommended that "the science of paleontology is best served by unimpeded access to fossils and fossil-bearing rocks in the field." Should only professional paleontologists be able to collect fossils, but not you? Is there a future for paleontology if kids cannot find fossils?

**AND A COMMENT FROM RICHARD D. HAMELL,
Dept. of Geosciences,
Monroe Community College, Rochester, NY**

Richard sent the above article and a copy of the following letter he sent to Newsweek.

It was mentally refreshing to read the article "Fossils Are For Everyone" by Dr. Greg Retallack (Univ. Oregon). As he so eloquently stated, "the science of paleontology is best served by unimpeded access to fossils and fossil-bearing rocks in the field." Without the assistance of amateurs, there would be fewer professionals that would have employment, as curators, researchers and educators. Every time an exceptional fossil is donated, it may represent hundred of hours of collecting and preparing, expense or travel and/or the outlay of the initial purchase. The prime motive behind the donation of fossils by amateurs is not to get a tax deduction; it is because the donor believes in the advancement of science and wants to take part in the preservation of our natural history. There are but a few pleasures in this country that are still free, and fossil collecting is one of them. Don't let the greed of a few drive this enjoyment to extinction.

ADVERTISING SECTION

Ads are \$5.00 per inch (6 lines x 1 column--43 spaces). Send information and checks payable to MAPS to: Mrs. Gerry Norris, 2623 34th Avenue Ct., Rock Island, IL 61201. Phone: (309) 786-6505. This space is a \$5.00 size.

To extend currently running ads, please send request and remittance to **Editor** by the 15th of the month. We do not bill. Ads do not run in the EXPO issue (April). Ads up to 8 lines by 54 spaces can be printed in smaller type to fit a 1" space.

FOSSIL HORSES. Bruce J. Mac Fadden. 1992. Systematics, paleobiology and evolution of the family Equidae. Hardcover. \$74.95 plus \$3.00 postage. **PALEO BOOKS & PREP SUPPLIES**, P.O. Box 542, Hot Springs, SD 57747.

Fascinating 1990 Book to challenge your beliefs about the Past: **Genesis and the Dinosaur**, \$17.25pp, by Erich A. Von Pange, PhD. A refreshing new look at ancient chronology and the fossil record.

Order from: LW Services, 72876 County Rd. 29, Sycouse, IN 46567.

FOSSIL BOOKS and fossil collection, preparation and display supplies. Over 100 paleo titles-including many state collecting guides. Air tools, flexible shaft machine, etc. Retail only. Catalog US \$2.00/Canada \$3.00. We ship only to US/Canadian addresses. **PALEO BOOKS & PREP SUPPLIES**, P.O. Box 542MD, Hot Springs, SD 57747. Tel 605/745-5446.

It's a must for all fossil lovers.

Fossils for trade only (no sale) at MPAS exhibition (Macomb, IL) from 12 to 6 PM Friday. Ordovician trilobites (Pseudogygites, Triarthrus), Echinoderms from Quebec (Malocystities), Sea Urchins and ammonites from France and Italy. **See you there. Therese Seguin and Jean Guy Pellerin, Montreal**

Inarticulate brachiopods: orbiculoidea Penn., Lingula Penn., orbiculoidea Perm., curticia Camb. All 4 \$1.50 p.pd. Robert Wolf, 3521 10th Ave. N. Fort Dodge, IA 50501

FREE CATALOG - Museum quality fossils for the discriminating collector. Rare ammonites, trilobites, fish and dinosaur teeth. Glenn F. Rockers. MAPS member since 1978. PaleoSearch, Inc., POB 621, Hays, KS 67601. 913-625-2240.

Please ADD the Following NEW OR REJOINING MEMBERS to Your Directory:

Cindy Bowles
1474 N. Leland
Indianapolis IN 46219
317-356-0980

Draftsman. Will trade. Major interest fossilized animals, insects, reptiles, sea creatures. Loves to collect fossils and loves fossil shows and displays.

Debbie Bunn
2329 Howe Avenue
Sacramento CA 95825
916-929-6665

Interested in ammonites, petrified wood, ichtyosaurs and mammals (mainly horse and camels). Will trade. Common Midwest fossils, such as horn corals and brachs, are considered rare in CA.

Stephen R. Dickerson
5914 59th Loop SE
Lacey WA 98503
206-456-1372

College Professor of Philosophy. Nothing to trade yet. Major interest trilobites, Mesozoic fossils, Tertiary crustaceans. Wants to learn more about fossils, make contacts, and broaden his collection.

Michael Everett
c/o Crystal Mark, Inc.
613 Justin Ave.
Glendale CA 91201
800-659-7926

Director of sales & mktg. Will trade. Interested in all types of small fossils in matrix. Has for trade micro sandblasting for matrix removal on fossils. Wants to learn more about paleo. and where to collect fossils.

Steve & Marianne Foster
1598 Farlow Rd.
Richmond IN 47374
617-935-4524

Electronics Technician/Painter-Decorator. Will trade. Major interest collection and prep. of all types of fossils, esp. trilobites. Nothing for trade yet. Wants to learn more about fossils and where to collect them.

Thomas A. & Mary Kay Frushour
1311 Chestnut Lane
Temperance MI 48182
313-847-1315

Technician in Physical Medicine. Will trade. Major interest collecting, prep., stratigraphy, map reading, display, identification--all invertebrates--macro & micro. Has for trade mostly study-grade pieces--Ordovician & Devonian.

Tom Kaye
Technicolor Industries
301 Industrial Ln.
Wheeling IL 60090

Gary Kmetz
P.O. Box 3458
Tuba City AZ 86045
602-283-6872

Teacher--Geology/Earth Science. Will trade. Wants to be in contact with people interested in paleo.

Laura L. Kroeger
7007 Antler Lane
Harrison TN 37341
344-2970

Friends of the U. of Mich
Mus. of Paleo.
Exhibit Mus., Mus. of Paleo.
1109 Geddes Rd.
Ann Arbor MI 48109
313-764-0488

Members of the "Friends" have extensive knowledge and experience in the Michigan Basin and the Devonian in Michigan and surrounding areas. Many collect nationally as well as in the Midwest.

Larry & Carol Osterberger
32 Hidden Trace
Ringgold GA 30736
706-965-2593

REJOINED

Robert L. Price
P.O. Box 1934
Shingle Springs CA 95682

Dan Rokosz
2919 S.E. Woodward
Portland OR 97202
503-231-2518

Photo Lab Technician. Will trade. Likes all fossils (except micro). Has for trade Cenozoic fossils of Oregon and Wash. and Indiana fossils. Wants to learn more about fossils, collecting, prep. and wants to correspond with other fossil collectors.

Ted Schenck
15 Hanapepe Pl
Honolulu HI 96825
808-395-0894

Finish carpentry/fine woodworking. Will trade. Major interest crinoids, starfish, marine fossils. Has for trade professional mounting and shadow box frames for displaying.

Larry C. Simpson
P.O. Box 720499
Oklahoma City OK 73172-0499
405-848-8961

Hydrologist. Will trade. Major interest Ordovician - Devonian fauna, esp. trilobites. Has for trade Ordovician - Devonian fauna. Member Dallas Paleo. Soc. Wants to get acquainted with members and buy or trade trilobites and other fossils.

Jim Tatum
12110 Midlake Dr.
Tampa FL 33612

Robert Williams
1286 Elmwood Drive
Ypsilanti MI 48197
313-572-9410

Remote sensing/image processing specialist. Will trade. Major interest Paleozoic & Mesozoic vertebrates. Trilobites, malacostracans, crinoids. Has for trade trilobites, brachiopods, Cenozoic mammal material. Member Friends of U. of Mich. Mus. of Paleo., Ann Arbor, MI. Wants to expand contact with other serious amateurs, exchange information on collecting localities.

PLEASE NOTE THE FOLLOWING CHANGES OF ADDRESS:

Van Beall
7254 Riding Hood Lane
Columbia MD 21045

Eric Prokopi
3628 Greatwood Ct.
Land O'Lakes FL 34639
813-996-4184

Willem Bessem
45 Matipo Road
Te Atatu, AUCKLAND 8
NEW ZEALAND
09-8366195

Vic Reynaud
1100 W. 38th Ave.
Denver CO 80211

Terry T. Brawner
3323 Dew Point Ln.
Sugar Land TX 77479

Edwin T. Schafer
15709 Polk Cr.
Omaha NE 68135

Donald N. Clements
67 S. Hummingbird Lane
Rocky Point, NC 28457

Mrs. L. C. Schekkerman
11 Marian Str.
Tnnaloo 6018 09-3416254
AUSTRALIA

Michael R. Crownover
9630 -D W. Chatfield Ave
Littleton CO 80123

David M. Cassel
c/o Pongsawart Niyomca
605 Sutape St, Soi 1
Chiang Mai 50000
THAILAND
FAX 6653-27837

The **Mid-America Paleontology Society** (MAPS) was formed to promote popular interest in the subject of paleontology; to encourage the proper collecting, study, preparation, and display of fossil material; and to assist other individuals, groups, and institutions interested in the various aspects of paleontology. It is a non-profit society incorporated under the laws of the State of Iowa.

Membership in MAPS is open to anyone, anywhere who is sincerely interested in fossils and the aims of the Society.

Membership fee: One year from month of payment is \$15.00 per household. Institution or Library fee is \$25.00. Overseas fee is \$15.00 with Surface Mailing of DIGESTS OR \$25.00 with Air Mailing of DIGESTS. (Payments other than those stated will be pro-rated.)

MAPS meetings are held on the 1st Saturday of each month (2nd Saturday if inclement weather). October & May meetings are scheduled field trips. The June meeting is in conjunction with the Bloomington, IN, Gem, Mineral, Fossil Show & Swap. A picnic is held the fourth weekend in July. November through April meetings are scheduled for 1 p.m. in the Science Building, Augustana College, Rock Island, Illinois. One annual International Fossil Exposition is held in the Spring.

MAPS official publication, MAPS DIGEST, is published 9 months of the year--October through June.

President: Marvin Houg, 3330 44th St. N.E., Cedar Rapids, IA 52402
 1st Vice President: Lyle Kugler, 612 8 E. 3rd St., Aledo, IL 61231
 2nd Vice President: Allyn Adams, 612 W. 51st Street, Davenport, IA 52806
 Secretary: Jo Ann Good, 404 So. West 11th St., Aledo, IL 61231
 Treasurer: Sharon Sonnleitner, 4800 Sunset Dr. SW, Cedar Rapids, IA 52404
 Membership: Tom Walsh, 501 East 19th Avenue, Coal Valley, IL 61240



CYATHOCRINITES

MID-AMERICA PALEONTOLOGY SOCIETY

Mrs. Sharon Sonnleitner
 MAPS DIGEST Editor
 4800 Sunset Dr. SW
 Cedar Rapids, IA 52404

FIRST CLASS MAIL

MAPS EXP. DATE..... 93/12
 Allyn & Dorris Adams
 612 W. 51st Street
 Davenport, IA 52806

Dated Material - Meeting Notice