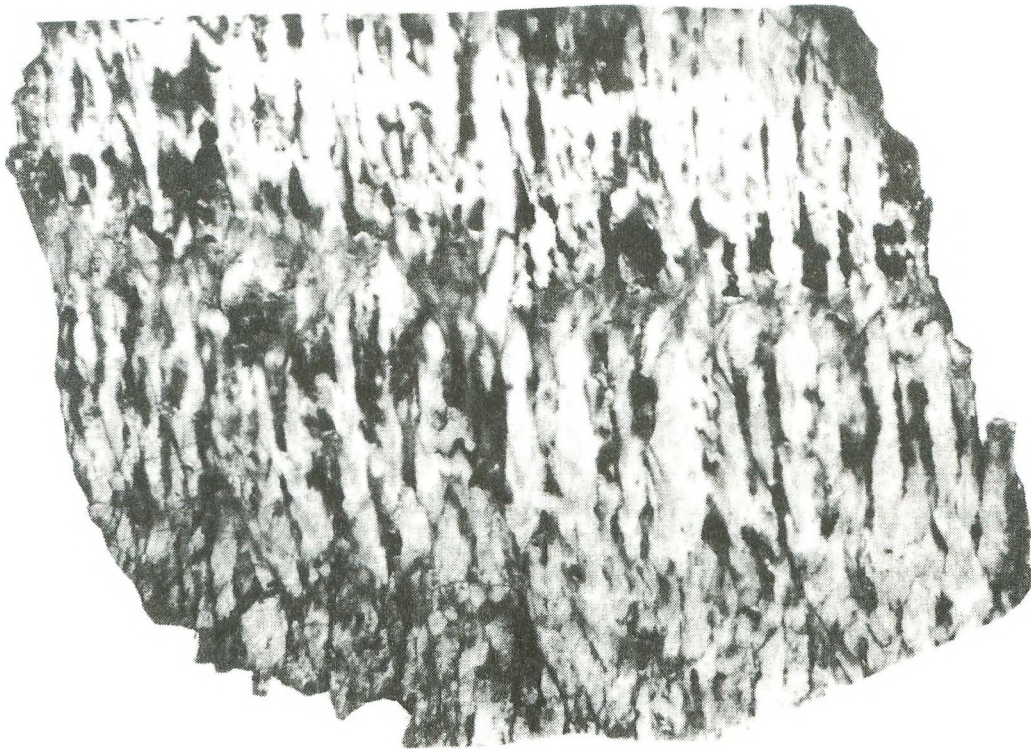


# M.A.P.S. *Digest*

Official Publication of  
Mid-America Paleontology Society

Volume 16    Number 5  
May, 1993



# MARK YOUR CALENDARS

11 JUL	MAPS SUMMER PICNIC, & MEETING Doug DeRosear Residence, 103 S. Oak St., Donnellson, IA. (1 block east of four-way stop) (319) 835-5521.  11:30 to ?. Eat at 12:30. Potluck--bring a covered dish, table service and drink.	13 OCT	SVP 53RD ANNUAL MEETING (SOC. OF VERT. PALEONTOLOGY, ALBUQUERQUE,) NEW MEXICO 16 17 International Symposium on Non- marine Triassic from Oct. 17-19. 18 19 20 Field Trip to examine classic 21 nonmarine Triassic strata of the 22 southern Colorado Plateau from 23 Oct. 20-24. 24  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  <i>See page 2 for more information.</i>
11 AUG	LOST DUTCHMAN GEMBOREE, LEBANON, 12 PA 13 14 Contact: Gemboree, 217 Neven St., 15 Lancaster, PA 17603 (717)392-6825	5 NOV	FOSSILMANIA X, OAKDALE PARK, GLEN 6 ROSE, TX 7  Fri.--10 am to 6 pm Sat.-- 9 am to 6 pm Sun.-- 9 am to 2 pm  More info and app. in next issue.  Contact: William W. Morgan, 113 Shavano Drive, San Antonio, TX 78231
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	15 APR 1994	MAPS NATIONAL FOSSIL 16 EXPOSITION XVI 17  Fri., Apr. 15: 8am - 6pm Sat., Apr. 16: 8am - 5pm Sun., Apr. 17: 8am - 3pm  <b>PLEASE NOTE: THE DATES ARE INCORRECT IN THE 1993 DIRECTORY</b>

## \*\*\* 93/05 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--93/05 means 1993/May. 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

## ABOUT THE COVER

This month's cover, sent by B. L. Stinchcomb, is of vertical burrow-like structures in Medicine Bow Quartzite, early Proterozoic, Medicine Bow Mts., WY. Section in perpendicular to bedding planes (x 1).  
*See story on page 3-4.*

## EXPO XV--EXTINCT ECHINODERMS

EXPO XV is now just a pleasant memory for those of us who were able to attend. It was a really great show from all points of view. Tables, including those in the lobby were sold out well in advance of the show. Tom Broadhead's (University of Tennessee) key note address Friday night on extinct echinoderms was excellent. The auction Saturday night raised a good amount of money for our scholarship donation to the Paleo Society. About 30 people attended and took specimens to the Sunday seminar on extinct echinoderms given by Tom Broadhead.

The following awards were presented during the business meeting Saturday night: President's Award to JoAnn Good, who is a charter member of MAPS and has contributed numerous services to MAPS throughout its years of existence; and Don Good Award to John Boland, who has kept us abreast of laws and legislative happenings.

A special thanks to all those who put together this year's EXPO and helped to make it run smoothly again: Marv Houg and Karl Stuekerjuergen, co-chairs of EXPO, Doug DeRosear, tables, Allyn Adams and Tom Walsh, Union rooms, Paul Rechten, auction, Tom Witherspoon, Sr., publicity, Maggie Kahrs, EXPO Digest editor, Tony Verdi, EXPO postal cancel, MAPS officers and members of the Board, as well as all those who helped at the front desk, stuffing packets, and wherever else they were needed. EXPO wouldn't be possible without you!

After having been to EXPO for several years, I especially enjoy seeing all the many people I've come to know first as names on the membership list and then as friends.

Word from the University cleaning staff was that almost everyone left his/her area well cleaned up — thanks! We haven't had any notice of lost items, but Gerry Norris found a silver brooch; contact her (309-786-6505) if you lost one.

And so on to planning for next year's EXPO. The theme will be dinosaurs, and Donald L. Wolberg, New Mexico, will be the keynote speaker. Maggie Kahrs will again be the EXPO Digest editor, so contact her if you are willing to contribute an article.

## NONMARINE TRIASSIC SYMPOSIUM

A three-day international symposium on all aspects of the nonmarine Triassic will be hosted by the New Mexico Museum of Natural History in Albuquerque, NM, from October 17 through 19 (immediately following the annual meeting of the Society of Vertebrate Paleontology October 13 through 16). The symposium will focus on Triassic nonmarine stratigraphy, correlation, chronology, paleontology, sedimentology, paleoclimatology, paleoecology, paleogeography, and paleobiogeography. The Subcommittee on Triassic Stratigraphy has been invited to hold a meeting in conjunction with the symposium. Cost is \$80.

A field trip, beginning immediately after the symposium, will run from October 20 through 24. It will leave Albuquerque heading westward to Flagstaff, Arizona to examine classic nonmarine Triassic strata of the southern Colorado Plateau, including the Petrified Forest National Park, the Painted Desert, and Meteor Crater. A guidebook will be published for the field trip. Field trip buses will return to Albuquerque by midafternoon on October 25. Cost is \$300.

See the calendar, page 1, for contact person.

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**BAUCUS BILL INPUT REQUESTED**  
by John Boland, MAPS member

Jan Campbell Miller is interested in input from the amateur and hobbyist for rewrite of the Paleontological Protection Act to be introduced later this year. The consensus meeting at Boulder and Salt Lake City in 1989/90 confirmed the recommendations of the Academy of Science guidelines in their report *Paleontological Collecting*. This specifies use of only hand tools and encourages amateurs for fossil preservation to be allowed to collect all fossils on Public Lands. Send your comments on whether you do or do not want the right to collect fossils on Public Lands as recommended by the National Academy of Sciences guidelines report *Paleontological Collecting* to: Senator Max Baucus, c/o Ms Jan Campbell Miller, HS 511, Washington, DC 20510.

**METAZOAN AND VENDOZOAN ENIGMAS**

by B.L. Stinchcomb, St. Louis Community College of Florissant Valley, St. Louis, MO 63135

The earliest occurrence of animals and animal life in the fossil record has always been an enigma. Numerous "false alarms" have occurred through the past 200 years of realization of what the fossil record really was, a potential record of the history of life through geologic time. The first such "false alarm" was *Eozoon canadense*, the Dawn animal of Canada discovered in the late 1860's and the basis for much "arm waving" over the following two decades. Other false alarms followed, such as the various "zoons" like *Archeozoon* and *Cryptozoon* which turned out to be stromatolites. Immersed in a veil of time and mystery, the first appearance of animals on the earth (animals with a eukaryotic cell) remains to date a real enigma.

Life itself is a very ancient phenomenon on the earth! Communities of prokaryotic cyanobacteria (blue green algae) and presumably chemosynthetic bacteria have been producing distinctive dome and finger shaped structures (stromatolites and microbiolites) as far back as 3.5 billion years ago. But when did the first animals appear?

The Cambrian Period marks a sudden burst of diversity in animal life. This event, the Cambrian radiation event, saw not only the introduction of many of the phyla known today but also a lot of what might be called "experimental" life forms, life forms which were unsuccessful evolutionary dead ends. Prior to the Cambrian are peculiar fossils which are seemingly animal impressions of a puzzling type. This "fauna," known as the Ediacarian fauna is composed of surprisingly large organisms with no hard parts but of a leathery texture and composition which left distinct impressions in mud and sand beds on the sea floor. The Ediacarian fossils have been interpreted in two ways:

1. That they represent ancestors of animals of the Cambrian and are early forms of phyla which are living today. Ancestors of jellyfish, sea pens, primitive arthropods and echinoderms

are the designations of Ediacarian fossils under this view. Ediacarian organisms were, in this view, some of the first of multi-celled animals (metazoans).

2. The other view is that they represent an extinct, experimental form of life which was different from anything presently living. Ediacarian organisms in this view were not animals and neither were they plants or fungi, the other types of multi-celled life forms. In this model they had no organs or body plan comparable to anything living today or for that matter anything living during the past 500 million years. This view refers to these organisms as Vendozoans to distinguish them from the Metazoans of the Cambrian and later. Vendozoans went extinct at the end of the Proterozoic era or during the Cambrian Period.

Ediacarian fossils first appear in strata around 680 million years old and are now known worldwide. Associated with Ediacarian fossils are a few tracks and trails seemingly made by the movement of primitive animals. Here, however, is nothing approaching the diversity of tracks and trails found in Cambrian rocks. In strata 680-800 million years old occur similar rare and unspecialized tracks, but in earlier strata these are usually absent. Note "usually," for some notable exceptions occur. So the beginnings of animal life is generally placed somewhere between 800 to 1,000 million years ago.

Enigmas, however, so occur. In well-dated sandstones (now quartzites) of the Medicine Bow Mountains of Wyoming occur what appear to be vertical burrows made in what was originally dirty sand. If these structures were found in Paleozoic or younger strata, they would be of no great interest, and they would be considered unequivocally some type of closely spaced animal burrow. But the host rocks in which they occur are over 2 billion years old. Some beds of the quartzites re full of these structures which, if they are not burrows, may be some

type of peculiar stromatolite. They look like animal burrows, however, and they are of the right size and the right shape, but they are in the wrong part of geologic time.

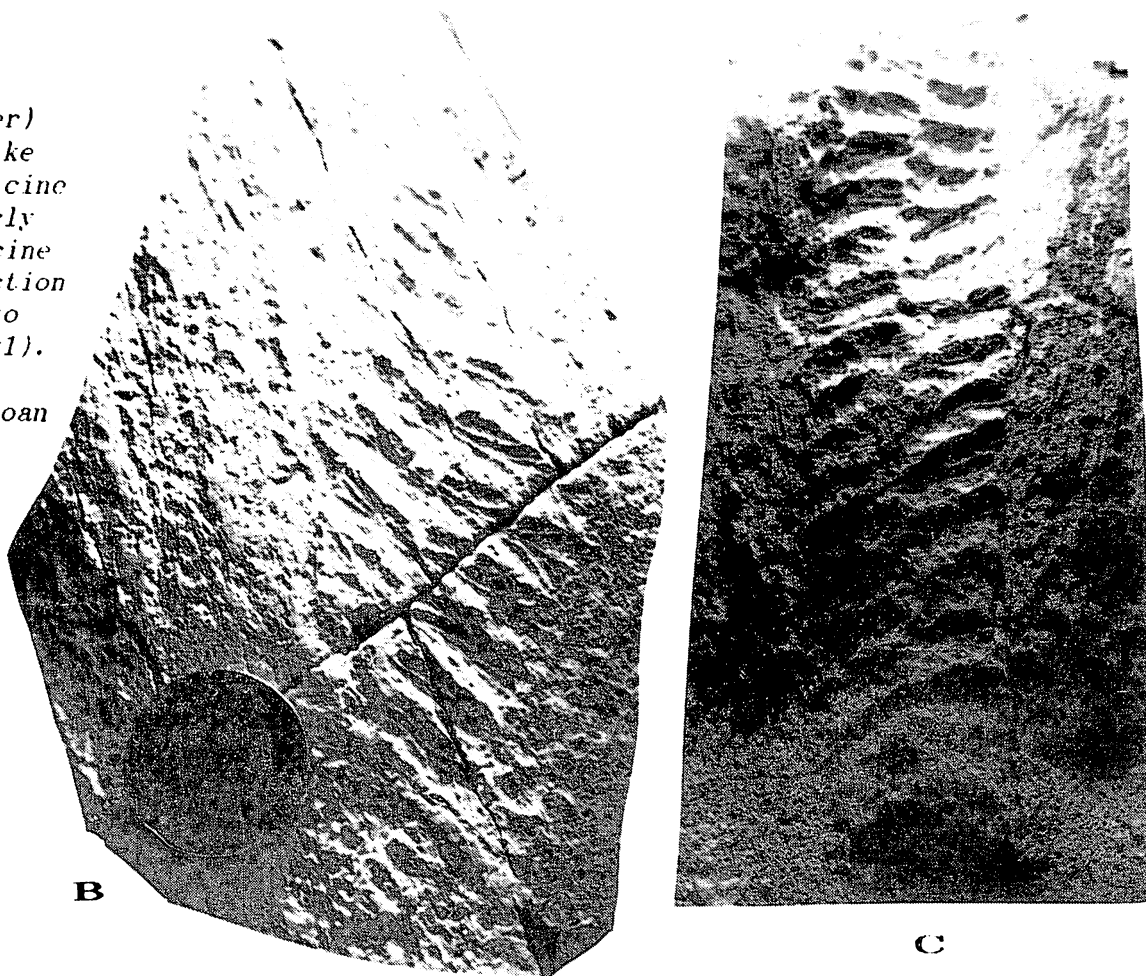
The first mention of them was in 1982 in a paper by Earl Kaufmann and James Steidmann in the *Journal of Paleontology* entitled, "Are these the oldest metazoan trace fossils." They present these enigmatic objects in the form of a question, not implying that they are necessarily burrows. A few other somewhat similar structures occur in sandstones of similar age in other areas. One of these is in *Kempia*. Hans Hoffmann, of the University of Montreal, in sorting out all of the

fossils and fossil-like objects of the Canadian Precambrian, placed *Kempia* as a problematic fossil. As such, it possibly represents a consequence of chemical-diffusion-banding or perhaps is a peculiar type of stromatolite. These explanations are probably as appropriate for the Medicine Bow Mountains structures as for *Kempia* since the two structures have a lot in common. The Medicine Bow structures do look more like animal burrows than does *Kempia* and have a peculiar chevron pattern, which looks stromatolitic, within the vertical burrows. Like a lot of Precambrian phenomena, they remain an enigma, an enigma waiting to be explained by either more insight, more and better specimens or both.

#### SELECTED BIBLIOGRAPHY

- Cloud**, P. E., 1978. *Cosmos, Earth and Man, a short history of the Universe*. New Haven, Yale University Press. 372 pg.
- \_\_\_\_\_, 1978. World's oldest animal traces. *Nature*, Vol. 275, p. 344.
- Hoffmann**, Hans, 1971. Precambrian fossils, Pseudofossils and Problematica in Canada. Geological Survey of Canada, Bulletin 189.
- Kaufmann** and Steidmann, 1981. Are these the Oldest Metazoan trace fossils? *Journal of Paleontology*, Vol. 55, No. 5 p. 923-947.

Fig. A. (See Cover)  
Vertical burrow-like structures in Medicine Bow Auartzite, early Proterozoic, Medicine Bow Mts., WY. Section is perpendicular to bedding planes, (x1).  
Figs. B, C. Late Proterozoic vendozoan impressions from Newfoundland and North Carolina. (B) Conception Group, Newfoundland (x 1); (C) Staley Co., North Carolina (x 1).





## LETTERS TO THE EDITOR

Dear MAPS,

What has been written to date in the MAPS Newsletter has not dealt with the potential troubles of opening up national lands. I agree that public lands should be multiple use and all people should have access to collect on them. I agree that open collecting will both bring enjoyment to many amateurs and generally increase the knowledge of the science. Further, I agree that policing public lands is largely impossible and a waste of taxpayer dollars. With this said, I read no one addressing what needs to be done to control potential hazards of such open collecting.

The continued spiraling of prices for fossils will inevitably lead to trouble. Several have argued that the high prices for fossils (\$330,000 for a mounted hadrosaur and hundreds for nice tyrannosaur teeth) are worth it to the buyer. Maybe so, but what are those prices doing to the collectors and land owners? And who is the buyer? One commercial collector went around my favorite collecting area offering ranchers a new 4x4 pick-up if they would find him a dinosaur. Dinosaurs now mean wealth to them. Some private land owners already charge fees to let you collect. Increasingly the highest bidder for fossils are Japanese or German. This same commercial collector found a small hadrosaur bone bed which he sold directly to the Japanese. These fossils will never again be on our land nor will they ever end up in our museums through private donation. If the public lands are opened and large amounts are offered to find a dinosaur, our university and museum people have a reason to be worried that the lure of big dollars will lead to stiff competition and often result in forever removing these national treasures to foreign lands.

Instead of severely limiting collecting, we should work to control the bidding war. One way that needs to be explored is tightly regulating and limiting the export of vertebrate fossil material. This would control the spiraling prices for fossils by removing some of the highest bidders and would also keep our vertebrate fossils as a

national heritage. If money becomes less of an issue, public lands will not tend to be plundered as museum and university scientists rightly fear and private land owners will not look to get rich from collectors and be more likely to keep their gates open to the amateurs.

Sincerely yours,  
Daniel J. Holt  
409 E. Grant  
Fowler, CO 81039

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Dear Editor:

A good offense is the best defense.

The Baucus Bill and related legislative tripe is attempting to criminalize the collection and use of fossils and minerals. Sadly, the radical fringe element that is driving the bureaucracy is enjoying considerable success in this sordid pursuit.

Hand-wringing and ineffective grumbling on our part won't stop the radicals. Compromise will guarantee that we will get at least part of the restrictions we don't want.

Why are we circling the wagons and hunkering down in a defensive posture? We need to go on the attack! We far outnumber the enemy.

The National Academy of Sciences report on fossil collecting suggested that the role of the land manager and the government ought to be promotion of fossil collecting, not running collectors off public land. Well, let's turn that suggestion into law.

Contact your Senators, Representative, Governor and Secretary of the Interior and ask that a pro-paleo bill be drafted that follows the NAS guidelines and makes Big Government our willing helper. The Bill should guarantee that, except in certain sensitive and very restricted areas, all public land remains open to fossil and mineral collecting, rockhounding and related activities. Point out to your representative that a fossil that is not collected weathers away and is lost to everyone. Far more good fossils end up as road full and concrete aggregate than are ever lost to amateur collectors.

Your local newspaper can tell you the name and mailing address of your representatives. Write those letters. They do make a difference. Let's get some POSITIVE laws on the books that will guarantee that Baucus and others of his ilk won't be able to kill the earth science hobbies and professions.

Sincerely,

William F. Jud, Geologist

HCR 71, Box 433

Fredericktown, MO 63645-9325

phone (314) 783-2010

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### VISIT A FOSSIL BED

#### WHERE A TULLY MONSTER TREAD

by Linda McIntosh

excerpts from: *Chicago Tribune*,

Apr. 4, 1993. Section 18, p. 5.

sent by: Gerry Norris

The wildlife of the 30,000-acre Mazon-Braidwood Conserve has left more than footprints.

The prints of animals that lived 300 million years ago are hidden in fossils there. The mysterious foot-long Tully monster, an Illinois state fossil, which has not been found in any other state. April begins the fossil-hunting season at this world-famous fossil bed.

Anyone interested in digging into the deep past can...join the search that led fossil hunter Francis Tully to his monster find.

"This is one of only three places in the world where you can find fossils showing the soft parts of a creature--it's like finding a whole dinosaur, instead of just its skeleton," says Chris Ledvina, North-eastern Illinois University earth science professor...

About 90 million years before the first dinosaurs, the Mazon-Braidwood Conserve was part of a lush, tropical swamp teeming with primitive plants and animals. A river flowed through the delta area, sometimes flooding it and burying plants and animals under layers of mud and silt. Over time, millions of organisms were buried alive and beautifully preserved.

"The plants and animals were buried so quickly, some didn't even start to decay, and that's why their fossils are so distinct," says Field Museum's Peter Laraba, who conducts the museum's fossil-hunting field trips for families as well as avid collectors.

Some fossils even capture what was happening as the creature was being buried. Split open a rock, and you might see one 300-million-year-old fish eating another.

"Many fossils are so well-preserved and from such a wide range of environments," says Laraba, "that they give the most complete picture we can get of life 300 million years ago."

...So far 500 different plant and animal species have been found in the area. Ancient shrimp, squid, sea cucumbers, ferns, spiders, and dragonflies have been uncovered in the smooth rust-colored rocks called "concretions."

..."It's one of the easiest places to collect fossils," says Laraba...

...Fossil treasures lie in heaps on islands in the cooling lake [for Commonwealth Edison's Braidwood Station, about 60 miles south of Chicago] and along its banks. From April through September, fossil hunters can hike and paddle through this restricted area, which is part of the Mazon-Braidwood Conserve.

...The Mazon Creek fossils were formed during the "Coal Age" about 280 million years ago when coastal swamps developed, and peat deposits formed.

Later these turned to coal. Mazon Creek fossils are found in smooth, round or oval rocks. They range from one inch to a foot or more in diameter. They are usually gray, brown or rust-colored.

For more information about passes and Northeastern's summer field trips to the area, call...Chris Ledvina, at 312-794-6263. To get information about the Field Museum's summer fossil-hunting field trips to the Mazon-Braidwood Conserve, call ... 312-922-9410, ext. 854. The day-long field trip includes an overview of the importance of the fossil site and hands-on fossil hunting for all ages.

## 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.

**MEMBER SEEKS DETAILED INFORMATION ON COLLECTING SITES IN U.S. AND CANADA.** Interests include leaves, wood, amber, insects, fish, Mazon Creek type concretions, ammonites, tracks, dinosaurs, and vertebrates.

Please contact Yale Goldman, 4416 Osage Ave. Apt. C5, Philadelphia, PA 19104. (215) 662-0236

**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.

**300+ TOPOGRAPHIC MAPS**--Mostly national forests in Ill., Minn., Mo., Wis., Mich., Ohio. Take the whole grabbag lot \$50 for your use/trade. (Ave. 16c each)! Mick Hill (206-357-9506), 301 W. "T" St. #D-5, Tumwater, WA 98501.

**CANADIAN TRADER.** Thanks to all the collectors we have met at MAPS exhibition. We have enjoyed this experience very much, and hope to repeat it in the future. If any informations are needed for the fossils traded at our table, don't hesitate to contact us. We will gladly answer your request. Jean-Guy Pellerin and Therese Seguin

**PALEONTOLOGY, "MOOD VIDEO" 2 HRS.** Hundreds of views of Super fossils, 6-8 seconds ea. Name superimposed, Pleasant background music added. \$16.95 plus \$2.00 S. & H. Al Copley, 17 Leisure Drive Kirksville, MO 63501

**BOOK: Index Fossils of North America.** List \$95.00. Our price: \$75.00 postpaid (while they last). Paleo Books & Prep Supplies, PO Box 542, Hot Springs, SD 57747. (No credit card orders). 605/745-5446

**FOSSIL AND MINERAL SHOW**--Aug. 11-15, 1993, Lebanon, PA. Seventh Annual Lost Dutchman Gemboree, at Lebanon Fairgrounds, Rt. 72, 5 mi. north of Pa. Turnpike Exit 20. Dealers with fine quality fossils. Tailgate space by the day, selling permitted. Collecting trips (Devonian trilobite trip on Friday). Classes. Lectures. Camping at show. Information package: Gemboree, 217 Nevin ST., Lancaster PA 17603; (717) 392-6825.

**MESOHIPPUS TEETH IN MATRIX.** Approx. 100 each uppers/lowers. \$1.50 per tooth (most paired in matrix). Oreodont teeth. \$1.00 each. Minimum order \$25.00 plus postage. Village Rock Shop, 346 S. Chicago, Hot Springs, SD 57747.

**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.

**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.

### ROCKHOUNDS LIVE LONGER

sent by: John Boland, MAPS member

*This study was released on April 1, 1993 by the Wigwag Statistical Group via Osage Hills Gems (4/93).*

A recent study has concluded that people who engage in the "rockhound" hobby live, on an average, more than three years longer than non-rockhounds. The study concluded that there was no way to ascribe the results to any particular cause. Of course, sustained mental activity, frequent exercise while hunting and working with stones, the relaxation of frequent social intercourse, and the friendly support of their peers are all possible factors.

The study showed a further breakdown between the three major areas of the hobby-- mineral study, fossil study, and rock and gem collection and working. Of the three, fossil collectors actually lived the longest--not, as some wag suggested, because they spent their time among their peers. The mineral collectors were next long-lived. The shortest life span was found among the rock and gem people. Some attribute this to the group tendency to lick rock samples of unknown composition.

Among specific activities of the hobby, the lifespans seemed to fall in the following order (from longest to shortest): fossil identification, fossil cleaning and preparation, carving, slabbers, cabochon making, silver-smithing, faceting. The statistical sample studied was too small to arrive at any conclusions from this list, but it is noted that those activities that may make dust, seem to fall nearer to the bottom of the list.



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

Richard Aylor  
2022 W. Main  
Jefferson City, MO 65109  
314-636-2745

Retired professional geologist. Will not trade.  
Major interest general geology & paleo.

William Baker  
P.O. Box 15  
Lansing, IL 60438  
708-474-9139

Accountant. Major interest Mazon Creek, trilobites cephalopods. Wants to learn more about fossils. Is a beginner (93).

Chris Braught  
14838 Sinks Rd  
Florissant, MO 63034

Dump truck driver. Will not trade yet. Major interest Cambrian, Ordovician fossils--all types. Member Eastern MO Soc. of Paleo, St. Louis, MO.

Thomas W. Broadhead  
Dept. of Geological Sciences  
University of Tennessee  
Knoxville, TN 37996-1410

Professor. Will not trade. Major interest Paleozoic echinoderms, tabulate corals, conodonts. 1993 keynote speaker--had a great time.

Philip & Donna Burgess  
326 So. Buchanan  
Prairie du Chien, WI 53821  
608-326-8791

3-M Company. Will not trade. Major interest cephalopods, molluscs, Ordovician & Silurian fossils.

Larry O. & Donna M. Clark  
11644 Indian Ck Rd So  
Indianapolis, IN 46259  
317-862-2916

Instrument Tech. Will not trade at this time. Major interest trilobites in particular, all fossils in general.

Cary & Liz Ezell  
5921 Firenze Crescent  
Anaheim Hills, CA 92807  
714-282-0304

Owner-manager Auto Collision/Glass shop. Will trade. Interested in all fossils, esp. ammonites, reptiles, insects, marine fossils. Has for trade mesosaurus. Wants to meet and share with people who share the same interest in fossils, collecting, and make lots of friends.

Stephen R. Gilmore  
6392 A Fairview Rd  
Hixson, TN 37343  
615-842-3855

Homemaker. Will trade. Major interest in Devonian invertebrates and all aspects of collecting, preparing and sharing information. Has for trade Devonian invertebrates. Member Rochester Academy of Science, Fossil Section, Buffalo Geo. Soc., N.A. Fossil Collectors Assoc.

Linda Heffron  
252 Edgerton St.  
Rochester, NY 14607  
716-271-8352

Jerry Hodges  
Fossil Finds  
P.O. Box 35  
Pilot Hill, CA 95664  
916-823-2132

Fossil Dealer. Will trade. Major interest vertebrate fossils. Almost anything for trade. Member Fossils for Fun, Sacramento, CA. Wants to broaden contacts and collection.

Brian Johnson  
305 Briarcliff Drive  
Greenville, SC 29607  
803-235-0629

Artist for publisher. Will trade. Major interest Miocene/Pliocene marine fauna--but certainly just about anything else. Nothing specific for trade yet. Wants to gather more info. about paleo.

Joseph Koniecki  
3529 E. Joy Road  
Ann Arbor, MI 48105  
313-994-1327

Chemist-technical manager. Will trade. Major interest trilobites and echinoderms. Also interested in anything from Arkona, Ontario. Member Friends, University of Michigan, Museum of Paleontology, Ann Arbor, MI.

F. (Fred) W. Lewis  
137 Audubon Dr.  
Carmel, IN 46032  
317-846-6786

Retired Mfg. Engineer, Photographer, Artist, International traveller. No trade at present (93). Interested in all educational areas of paleo. world wide. Presently a volunteer with the Ind. State Museum, Natural History Dept. Wants to maintain and develop other contacts with MAPS members; as indirect contacts have proven interesting and educational.

Todd D. McGee  
321 W. St. Charles Rd.  
Lombard, IL 60148  
708-495-0050

Public accountant & CEO of Mfg Companies. Will trade. Major interest fish. V.P. of CAPS, Chicago, and EMSOP, St. Louis. Wants to expand knowledge, meet others of similar interests, learn of other collecting sites, etc.

David L. Meyer  
Department of Geology  
University of Cincinnati  
Cincinnati, OH 45221  
513-556-4530

Professor of Geology. Will trade. Major interest echinoderms (esp. crinoids), past and present. Member Dry Dredgers, Cincinnati, OH. Wants exchange of knowledge about fossils, contribute whatever help he can to increase in knowledge of paleontology among interested amateur paleontologists.

Charles Myers  
902 Holiday Pt. Pkwy.  
Edwardsville, IL 62025

Will trade. Has for trade crinoids, blastoids, corals.

Jack & Jean Paar  
934 Duncan Ave.  
Elgin, IL 60120  
708-695-9588

Upholsterer. Nothing to trade now (93). Wants to obtain info on how and what to collect (where) and how to process fossils. New at collecting.

Phoenix Fossils  
Ron Stebler  
6401 E. Camino De Los Ranchos  
Scottsdale, AZ 85254  
602-991-2546

Commercial Preparator. Will trade. Major interest collection, preparation, sales of vertebrate fossils. Has for trade various assortment of vertebrate fossils, prepared and unprepared; also odds & ends. Member American Assoc. of Paleo. Supplies.

C. Douglas Rorex  
309 W. Mill  
Grayville, IL 62844  
618-375-9271

Clergy. Will trade, but has very small collection and few pieces to trade (93). Major interests corals, reef formation. Wants to keep abreast of what is happening in larger world of paleo. and contact others with similar interests.

William A. Sanders  
2085 Radcliffe Dr.  
Westlake, OH 44145

Robert E. Schmidt  
7635 Maryland Ave.  
Clayton, MO 63105  
314-727-2539

Neuropathologist. Will eventually trade (93). General interest. Member EMSOP, St. Louis. Wants to keep current on new discoveries, political developments, and meet others with an interest in fossils

Bruce & Karen Schweller  
3780 Frostwood Drive  
Beavercreek, OH 45430  
513-426-8640

Engineer/Banker. Major interest trilobites, Ordovician fossils. Member Dry Dredgers, Cincinnati, OH. Want to network with other collectors.

Eric Segeler, PhD Teacher.  
2205 Marks Ed.  
Valley City, OH 44280  
216-273-6401

Will not trade. Major interest ammonites, trilobites--stratigraphy, extinctions. Member Cleveland Fossil Soc. Wants contact with Midwest.

Dr. Melvin L. Shourd  
14 N. Kingshighway Blvd.  
St. Louis, MO 63108  
314-361-3819

Geologist. Will trade. Has an avid interest in life in the past.

Edward R. Talbot  
3613 S. Lombard Ave  
Cicero, IL 60650  
708-652-8924

High school teacher. Major interest general paleo. Nothing to trade yet. Member ESCONI, CAPS, FVERMS, Chicago area. Wants to keep up on new info. on fossils, collecting and to learn about dinosaurs.

Carlos Tatum  
DBA Paleo Enterprises  
P.O. Box 82098  
Tampa, FL 33682  
813-962-2560

Will trade. Major interest vertebrates. Has for trade Florida fossils--mainly vertebrates. Member Tampa Bay Fossil Club.

Bob Ulaszek  
211 Robinson Lane  
Westmont, IL 60559  
708-969-6640

Banking. Will not trade. Major interest Mazon Creek. Wants to get publication.

Willard A. Wade  
1014 Birchdale Dr.  
Charleston, SC 29412  
803-795-7923

Supervisory ship surveyor (U.S. Navy Civil Service). Will possibly trade. Interested in all fossils. May be interested in trading various sizes of whale vertebra from Miocene period. Member Myrtle Beach Fossil Club, Myrtle Beach, SC. Interested in interacting with other fossil collectors and gaining more knowledge and info. about fossils and collectors.

Deborah Koss-Warner  
S.E. 57 Alder Manor Lane  
Shelton, WA 98584  
206-427-5217

Printer & Fossil Dealer. Will trade. Interested in Crinoids. Has collected fossils since 1954.

(Wa.) Richard Jones  
511 S. Elm Street  
Crawfordsville, IN 47933  
317-362-3030

Phil Liff-Grieff  
2714 Cunard St.  
Los Angeles, CA 90065

Administrator for a nonprofit organization. Collects primarily Cenozoic molluscs, but also interested in echinoids. Will trade. Has for trade local Cenozoic material: molluscs and echinoids. Member of Southern California Paleo. Soc.

Richard S. Todd  
R.R. 2, Box 166  
Princeton, IL 61356

Facilities Manager. Will trade. Major area of interest Silurian. Has a few trilobites for trade. Wants to share information and collecting localities.

**PLEASE NOTE THE FOLLOWING CHANGES OF ADDRESS OR CORRECTIONS:**

Stephen Alexander  
2210 Talunar Lane  
Wichita Falls, TX 76301  
817-767-2217

Ed Armentrout  
Village Rock Shop  
346 S. Chicago  
Hot Springs, SD 57747  
605-745-5446

Dealer. No trades. Badlands Oligocene vertebrate skulls-turtles-teeth. prepared & unprepared. SD Cretaceous ammonites. Fossil books (125 titles) and fossil preparation supplies & equipment inc. air tools. Retail only. Ship US/Canada only. Interested in out-of-print paleo. books and vertebrates. Fossil list SASE. Catalog (books) \$2. Business is great but for sale--health.

Mr. Marc Auge  
7 Rue du Bochet  
Haut. 08500 Revin--Les Mazures  
FRANCE

Connie Carpenter  
P.O. Box 46  
Reads Landing, MN 55968

Chris Coxart  
P.O. Box 4844  
Wheaton, IL 60189-4844  
708-462-9778

Management-consultant. Will trade. Major interest Paleozoic invertebrates, esp. echinoderms, Pit 11. Collecting since 1957. Has for trade above. Member CAPS, Chicago area.

Larry Danielson  
325 S. Willard Ave. #4  
San Jose, CA 95126  
408-298-3669

Chiropractor. Will trade. Major interest fossil horses, vertebrates in general. Has for trade varied verts.

EASTERN MISSOURI  
SOCIETY FOR PALEONTOLOGY  
P.O. Box 21045  
Normandy, MO 63121-9998

Robert & Rita Helwig  
3429 Charlotte  
Kansas City, MO 64109  
816-561-2004

Fossils for kits, supplies, etc.

Richard E. Hill  
4632 E. 14th St.  
Tucson, AZ 85711  
602-325-9820

Senior Research Specialist with Lunar & Planetary Lab, Univ. of Arizona. Interested in Paleozoic Invertebrates, fossil pres., & microfossils.

Mrs. Margaret Kahrs  
9145 U.S. Hwy 50 East  
Seymour, IN 47274  
812-522-6093

Jack Kallmeyer  
325 Tuxworth Rd.  
Centerville, OH 45458  
513-433-9786

Ed Kerber  
1128 Pleasant Valley Rd.  
Suite #117  
Parma, OH 44134

Small business owner (florist) & video shop & amateur fossil collector. Collecting since 1973. Interested in hearing from other fossil hunters from around the world, New Zealand, Costa Rica, Madagascar, Australia, Hawaii, & Canada. Has collected Penn. insects and Devonian fish from around OH, and Ordovician trilobites from Ontario, Canada.

Ken Olson  
1009 W. Boulevard  
Lewistown, MT 59457  
406-538-5123

Mark D. Palatas  
3704 Wyndham Way #4  
Louisville, KY 40299  
502-266-6760

Arlene J. Pike  
516 Sellmeyer Lane  
Lewisville, TX 75067  
214-317-0981

Steven & Karlene Ramsdell  
R.R. 1, Box 139  
White Heath, IL 61884  
217-687-2799

Larry Rasmussen  
1323 1st St.  
Brookings, SD 57006  
605-697-5421

Herman P. Rechten  
7405 Shields  
Harvard, IL 60033  
815-943-3037

Vic Reynaud  
1100 W. 38th Ave.  
Denver, CO 80206  
303-433-2597

Designer/metalsmith/fossil dealer. Will trade. Major interest invertebrate: material from Wyoming & South Dakota; silver and gold smithing with all fossil material. Has for trade complete line of fossils from around the world. Member Western Interior Paleo. Soc., Denver, Central Texas Paleo. Soc., Austin.

Edwin T. Schafer  
15709 Polk Cr.  
Omaha, NE 68135  
402

W. R. Schurmann  
3833 Azure Lane  
Addison, TX 75244

Terry Sellari  
5555 Pentail Cir  
Tampa, FL 33625  
813-968-6820

Will trade. Major interest vertebra, Pleistocene, Pliocene. Has for trade Pleistocene mammal teeth, vertebra. Pres. (93) Tampa Bay Fossil Club, WSAS (Tampa).

Mr. Jindrich Statjnoch  
Luzanecka 12 Brno  
CZECH REPUBLIC 60600

Mrs. Jean G. Valey  
13934 W. Timberlane Ct.  
Lockport, IL 60441  
708-301-4189

**TAMPA BAY FOSSIL CLUB**  
P.O. Box 290561  
Temple Terrace, FL 33687

**MEET:** September through May on the 1st Saturday of the month.

**CALIFORNIA, MANHATTAN BEACH**

**SOUTHERN CALIFORNIA PALEONTOLOGICAL SOCIETY (SCPS)**  
1826 Ninth Street, Manhattan Beach, California 90266  
Att'n: Bob King, Federation Director or Emma King, Treas.

Joel Marnette, President 818-249-3859  
3516 Fairchild Street, La Crescenta, CA 91214

C.R. "Bob" King, CPMS Federation Dir. 310-379-0496  
1826 Ninth Street, Manhattan Beach, California 90266

**MEET:** 1st Sunday of each month at 1:30 pm at the George C. Page Museum, 5801 Wilshire Blvd., Los Angeles, CA 90036

**PUBLICATION:** "Bulletin of the Southern California Paleontological Society" (Bi-monthly), Floyd Jenkins S.J., Editor.

**FIELD TRIPS:** Listed in the bi-monthly bulletin.

**SPECIAL BULLETINS:** Bulletin #3: "Trilobites: Creatures of the Paleozoic Seas" \$14.00

Bulletin #4: "Anthology: 25th Anniversary Commemorative Issue" (A collection of 28 articles on fossils in celebration of their 25th Anniv. \$14.00

Bulletin #5: List of Silurian Trilobites of the United States, Canada, and Greenland" \$ 7.50

Bulletin #5; Supplement #1: List of Silurian Trilobites \$ 7.00

Bulletin #6: Remington Whales. (Recovery of a Miocene whale from So. Calif. \$10.00

(Order from June Maxwell, 3510 Hillhaven Dr., West Covina, CA 91791)

(1993)

**FRANCE, LYON**

**18th INTERNATIONAL MINERALS & FOSSILS EXHIBITION:**  
**COMPETITIVE EXHIBITS--BEST OF SPECIES COMPETITION:**

1. Epidote
  2. Native copper
- (repas "Lyonnais" et soiree dansante.)

**DATE:** 12-13-14 November 1993

**PLACE:** Espace Tete D'or, Lyon, France

**CONTACT:** Mr. Laverriere, A.S.E.M., 9 bis rue du Colombier, 69380, Chazay D'Azergues, FRANCE.

Tel. (7) 843-11-28

(1993)

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**SUMMER DIGEST**

The next *Digest* is the Summer issue, which will be mailed in mid-July. May you all have happy and successful hunting this summer!

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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

FIRST CLASS MAIL

MID-AMERICA PALEONTOLOGY SOCIETY

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

Dated Material - Meeting Notice