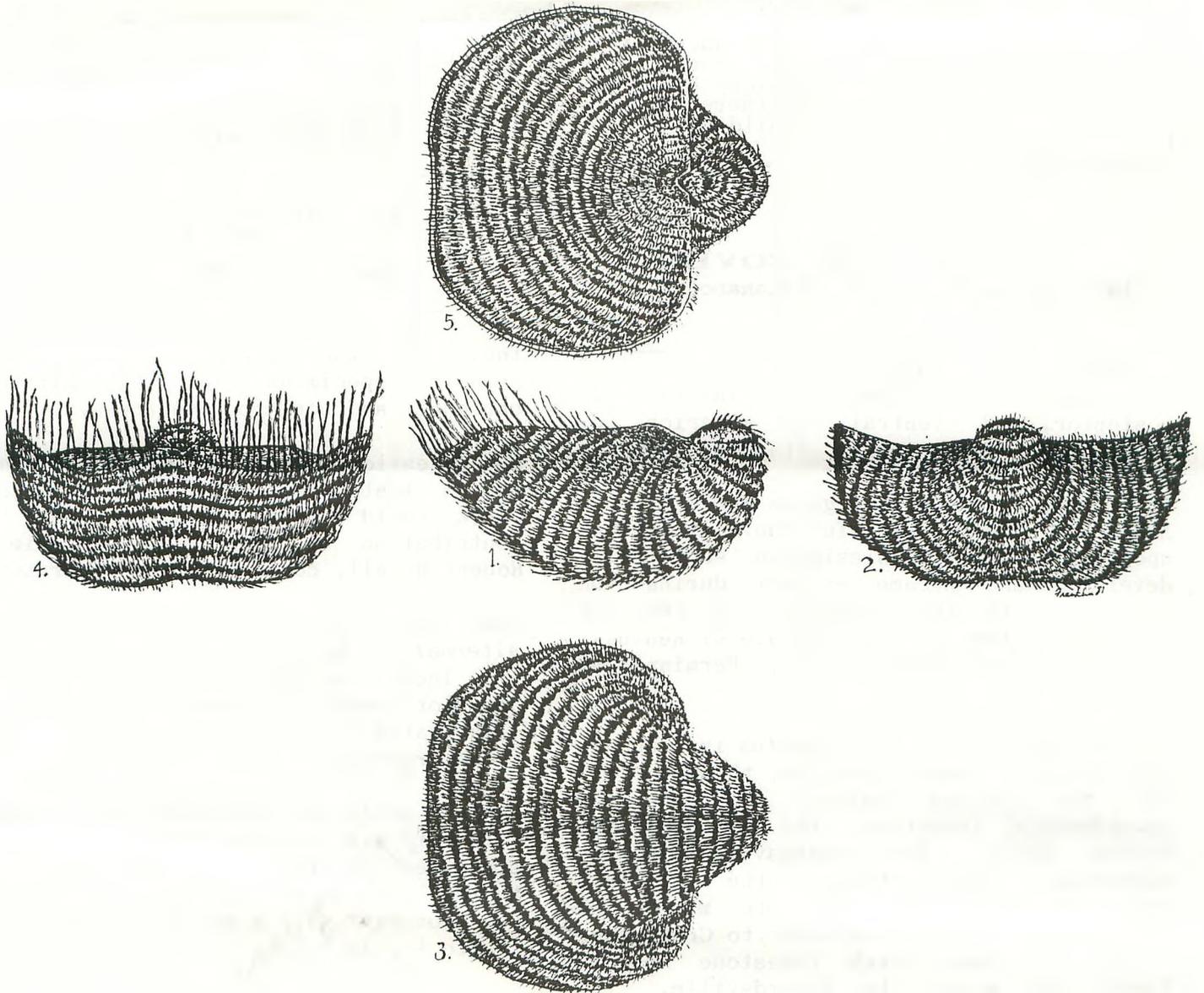


M.A.P.S *Digest*

Official Publication of
Mid-America Paleontology Society

Volume 12 Number 8
November, 1989



ECHINOCONCHUS *alternatus*
NORWOOD & PRATTEN

MARK YOUR CALENDARS

<p>4 NOV MAPS MEETING at Room 27, Trowbridge Hall, University of Iowa, 123 N. Capital St., Iowa City, IA</p> <p>1:00 Board Meeting 2:00 MAPS Meeting</p> <p>Ron Metzger, grad. student, of the Geology Dept. will speak on Microfossils in general--how to prepare them, where found, etc.</p> <p>The building usually does not open until about 1. The Library in the Geology Bldg. is open from 1-5 and there are exhibits in the building.</p>	<p>6 NOV ANNUAL MEETING OF GSA AT ST. LOUIS, MO.</p> <p>7 8 9</p> <p>CONTACT: Vanessa George, GSA, Box 9140, Boulder, OH 80301</p> <p>Paleontological Society sponsored Short Course on Dinosaurs on Sun., Nov. 5. No registration fee for the course; book fee usually about \$12.50.</p>
	<p>2 DEC MAPS MEETING at Fryxell Museum, Augustana Col., Rock Island, IL</p> <p>1:00 Board Meeting 2:00 MAPS Meeting</p>
<p>ABOUT THE COVER by Franklin E. Hadley, Indianapolis, IN</p>	<p>1990 MAPS National Fossil Exposition XII - Leaves and Grasses</p> <p>April 20-22, Macomb, IL</p>

Echinoconchus alternatus, views of reconstructed specimen. 1. lateral, 2. posterior, 3. ventral, 4. anterior, 5. brachial. Art work: Franklin Hadley.

The brachiopod of the genus *Echinoconchus* has been a very successful one. It arrived upon the early Mississippian scene fully developed and became extinct during the Permian. It is reported from the New Providence (early Miss.) Shale of Kentucky to the Root shale (early Permian) of Kansas.

In Indiana the *E. alternatus* is found in the Spickert Knob formation, the mid-slope of the Borden Delta, and in the Edwardsville formation, the top-set of the Borden Delta. The Edwardsville is the formation from which the original Crawfordsville crinoids were mined 125 years ago. In areas adjacent to Crawfordsville, the Ramp Creek Limestone Mbr. is found just above the Edwardsville. It,

too, is the source of many beautiful crinoid specimens in its alternating carbonate and noncarbonate rocks.

A suggestion by personnel of the Indiana St. Museum that the brachiopods from the Ramp Creek could be salvaged, resulted in the contribution of several good specimens by Robert Howell, collector and preparator.

Two laterally crushed specimens of *E. alternatus*, both from the Ramp Creek, had 1/2 inch long spines protruding from their anterior margins. These slender spines are illustrated in Views 1. and 4. of the reconstruction.

Since collected specimens are sometimes void of all spines, and short spines are preserved on some specimens, perhaps the typical *Echinoconchus sp.*, while living, was covered with a mat of recumbent spines 3/8 to 1/2 inch long.

Bibliography

- Carter, John L. & Ruth C., 1970, *Bibliography and Index of North American Carboniferous Brachiopoda* (1898-1968) The Geological Society of America, Inc. Memour 128
- Muir-Wood, Helen & Cooper, G. Arthur, 1960, *Morphology, Classification and Life Habits of the Productoidea* (Brachiopoda) The Geological Society of America Inc. Mem. 81
- Weller, Stuart, 1914, *The Mississippian Brachiopods of the Mississippi Valley Basin* Illinois State Geological Survey, University of Illinois, Urbana, 2 vols.

CHECK YOUR EXPIRATION DATE

Membership dues for most of you will be due in December, so please check your mailing label for your expiration date. The date appears above your address on your mailing label. The first number is the year, and the second number is the month. Membership runs through the end of the month stated on the label.

Also, when you send your dues, check your entry in the Directory to see if you want to make any changes. If you do, please make the changes on the form on page 8, and send with your check made payable to MAPS to:

Sharon Sonnleitner, Treas.
4800 Sunset Dr. SW
Cedar Rapids, IA 52404

MICROFOSSILS ADDENDUM
by Harold Tichenor, Chicago, IL

The following are additions to the December 88 and January 89 Digest articles on Microfossils, written by Harold Tichenor.

Microfossils III - Protection, Retention, and Display (Dec. 88, p. 6-7) Addendum:

Recently I came across an old catalog, Winter 1974, on the BROOKSTONE type. It included TURNTABLES, which I had sought in vain last Spring. I wrote to the old Cleveland address, with "Please Forward", and got a reply. They do have the tables, though not included in the current catalog:

Table with 3 columns: Size (6 inch square, 12 inch round), No. (71142, 71134), Price (\$2.99, 5.99)

I don't know about shipping charges. Order from: Leichtung Tool Works, 4944 Commerce Parkway, Cleveland, OH 44128

MAPS MEMBER NED GILMORE INJURED WHILE COLLECTING FOSSILS by Don Clements

On October 1st Ned Gilmore of Riverton, New Jersey, was severely injured while collecting at Big Brook, Monmouth County, New Jersey. Ned was collecting from the bone bed in the Wenonah Formation when the cliff face gave way, burying him in heavy blocks up to his chest. Luckily, he was collecting with other members of MAPS and the Delaware Valley Paleontological Society and was quickly uncovered from the heavy sediments. If he had been collecting alone, he may have perished. Ned's removal from the secluded site was hampered by topography and the distance from paved roads. The rescue squads did an excellent job removing him up a 50 foot cliff from the stream bank.

Ned required surgery for his injuries and should be recuperating at home by the time this note is published. We should all keep in mind that collecting alone can be dangerous or fatal.

Microfossils IV - Exceptions Cont'd. (Jan. 89, p. 3)

This is old stuff to many of you who were at EXPO XI and/or ESCONI's Spring show, who were victimized by my forcing them to look through a 17X lens at a small enrolled Pliomerella sp. trilobite from Brittany.

My fascination with that little creature prompted non-standard handling. I didn't want to freeze it in one position on a pedestal, which would make it impossible to see the entire beastie; the alternative was to mount it loosely on double-sided tape so that it can be rolled around to see all aspects of it. It is unconventional procedure which, in my opinion, was justified by the nature of the specimen.



D. Auler.

4X drawings of Harold Tichenor's Pliomerella sp. by Don Auler

Karl Stuekerjuergen received the following letter about the regulation of fossil collecting on Federal lands. We urge you to send your opinions to Mary Margaret Golten, CDR Associated, 100 Arapahoe Avenue, Suite 12, Boulder, CO 80302. To be considered, your opinion must reach Ms. Golten before the first week of December.

6266 W. Coal Mine Place
Littleton, Colorado 80123
September 27, 1989

Mid-America Paleontological Society
Rt. 1
West Point, IA 52656

I am writing to solicit the opinion of your organization about the regulation of fossil collecting on Federal lands. As the accompanying letter explains, the Bureau of Land Management (BLM) has instituted the technique of regulatory negotiation to draft the new set of regulations. They have employed CDR Associates to gather opinions and conduct the negotiations.

As a past president of the Western Interior Paleontological Society, I met, along with two other WIPS past presidents and John and Dixie Alf of Bartlesville, Oklahoma, with Mary Margaret Golten of CDR Associates. The purpose of our meeting, held on September 14, 1989, in Denver, was for Ms. Golten to explain the negotiating process and solicit opinions from amateur fossil collectors about collecting regulations. As our discussion progressed it became clear that the opinions of a large number of amateur fossil collectors would be needed prior to final discussion of the regulations. Toward that end I volunteered to write organizations such as yours to solicit their opinions.

The negotiations will take place the first week of December 1989, in Boulder, Colorado. Your opinions are needed prior to that time. Amateur fossil collectors will be represented at the negotiations by at least two individuals, as yet unnamed. Please, as soon as possible, send your opinions to Mary Margaret Golten at CDR Associates, 100 Arapahoe Avenue, Suite 12, Boulder, Colorado 80302. Send opinions as an organization, as individuals, or both. Also, if you have a nomination for someone to represent amateur fossil collectors, forward their name to Ms. Golten.

One topic that seems to be of major concern to amateur fossil collectors is that of permits. Should they be necessary? Who should be issued permits? What regional restrictions should apply? Any topic of concern to your group should be addressed in your letter to Ms. Golten. I suggest you be as complete as possible, with as much explanation of your position as you feel necessary. **Now is the time for the amateur fossil collectors to be heard.**

I ask that you write to Ms. Golten rather than to me because, even though I spend much time with amateur fossil collectors, I am a professional paleontologist. I do not want any bias to seep into what Ms. Golten hears from amateurs. This will be my only participation in the negotiation process.

Sincerely yours,
(signed)
Louis H. Taylor

September 18, 1989
NEGOTIATED RULEMAKING FOR FOSSIL COLLECTION
ON PUBLIC LANDS

In response to concerns regarding regulation of the collection of fossils on public lands, the National Academy of Sciences convened a committee to make recommendations to Federal agencies with land management responsibilities. The Committee made ten recommendations which they released in mid-1987. At this point the Bureau of Land Management is attempting to "operationalize" these recommendations and to draft regulations which will take into account the interests and concerns of all those who would be effected. It is using the process of negotiated rulemaking to accomplish this.

In this process a neutral third party assists in convening meetings; in helping those concerned to articulate their most important concerns (as well as to listen carefully to others' concerns); and in working with those concerned to develop an agenda and process which will facilitate creative and cooperative problem solving. The neutral third party or facilitator does not make decisions or pass judgement on the equity or fairness of agreements. This can only be achieved through the consensus of those involved. The BLM reserves the right to make final decisions regarding the regulations, but it is committed to honoring agreements reached through this negotiation process to the fullest extent possible.

In mid-1989 BLM contracted with CDR Associates to manage this regulatory negotiation process. For the past several months CDR staff have interviewed interested parties in an attempt to (1) understand the issues involved, (2) determine what form the negotiation process should take, and (3) assist parties in analyzing what role they would like to have in such a process, who their spokespeople might be, and what strategies would best serve their interests as well as those of the field of paleontology.

On December 3, 4, and 5 the negotiations will take place in Boulder, Colorado, though a number of smaller meetings may occur before that time. This meeting will be attended by approximately twenty representatives of the major interest groups involved. Members of the following groups, among others, are urged to consider what input they would like to have and to select people who might attend or act as liaisons with participants at the negotiations: amateur fossil collectors; members of the professional scientific community; members of local, State, and Federal agencies; representatives of the commercial fossil collecting community.

Those who would like more information on this process should contact officers of their own organizations or write to CDR Associates.

100 Arapahoe Avenue	1900 Wazee Streer
Suite 12	Suite 311
Boulder, Colorado 80302	Denver, Colorado 80202
(303) 442-7367	(303) 295-2244

SUGGESTED GUIDELINES FOR TRADING FOSSILS

by John A. Rivers

via PALEO Newsletter, Jean Wallace, Editor

from Bulletin of the Southern California Paleontological Society, Sept-Oct 1984

The trading (swapping) of fossils can and should be one of the more enjoyable phases of fossil collecting. Not only does it allow you to fill a few of the holes in your collection with specimens from an area which you might never be able to visit, it also brings back the joy of opening presents. Whenever I receive a box as the result of a swap, I open each "present" with anticipation.

In the process of trading fossils, and in talking with other collectors, I find that there seem to be no guidelines to be used. This lack of direction causes much confusion and many collectors who would like to trade are afraid to do so. With this in mind I asked for and received suggestions from several fellow collectors based on their past experiences. Using these suggestions and my own experiences as a guide, I am going to suggest a very few procedures to be considered in future swaps.

1. To receive new species you will probably need to trade with fossil collectors from an area other than your own. One of the most productive means of finding collectors to trade with is to join a fossil club in another state. An alternative means would be to request a membership list from the secretary of that club.
2. After finding someone to swap with, usually the first question is, "What do I have to trade that someone might want and what should I ask in return?" To answer this question it will help if you make a list of the extra specimens which you have on hand and are willing to trade. It will be too difficult to list all of these fossils in detail, but exceptional specimens such as a fine trilobite should be described with as much detail as is necessary to enable another collector to picture it; i.e., size in mm, condition, are any parts missing, is it in or out of the matrix, etc. A photograph of really

exceptional specimens is a great help. Other specimens such as trilobite parts need only be listed by name, locality, period and formation from which it was collected. If a specimen has been repaired, be sure that this is stated. The exchange of such lists will be a great help in conducting a swap.

Example:

TRILOBITES. *Greenops boothi* Green. Very fine specimen, missing the right free cheek. Flat in matrix. very dark brown on gray shale. Length 85 mm, width 50 mm. Moscow formation, Middle Devonian of Western New York.

Quality often depends on the state or type of preservation. Some specimens, such as thin-shelled brachiopods, are seldom or never found whole or free of matrix. Paleozoic mollusks are only preserved as molds or casts, while more recent specimens still have some of the original shell material.

3. Correspond freely with any collector with whom you intend to trade. In this way you will get to know each other's likes and dislikes, and the "tidbits" of information which you exchange can be very informative. A free exchange of information about your collection and collecting experiences should give you many helpful ideas as well as assistance in making a successful swap.

If you do not want to trade for specific fossils but instead those from a particular area or geologic period, it will be much easier to reach an understanding with each other. After an acceptable level of understanding has been reached through your correspondence, it should be possible to leave it up to each other as to what to send. Probably anything you receive will be new to your collection.

4. Every new "swapper" seems to fear that he or she will either be cheated or

unknowingly cheat the other collector. Fossil collectors should enter into a swap with the idea of expanding their collection and knowledge of fossils instead of monetary gain. Send the best specimen you have for trade and forget about being cheated.

If you must be concerned with getting and giving value, dollar for dollar, having several dealers' catalogs on hand will enable you to make a comparison and place a fair value on the specimens to be traded.

5. When you ship specimens, be sure that they are carefully packed in lightweight material such as styrofoam nuggets and put in a sturdy carton so that no breakage will occur in shipment. Complete identification should be wrapped with each specimen. This should include the scientific name, author, where collected, formation and geologic period from which it was collected and possibly the source of identification (Index Fossils of North America, state geologic survey bulletin, etc.).

BOOK REVIEW

by N. Gary Lane

Department of Geology

Indiana University, Bloomington 47405

Doescher, R. A. 1989. **Directory of Paleontologists of the World**. 5th Ed. International Paleontological Association, 445;. \$15 to members of IPA, \$20 to others.

Webby, B.D. 1989. **Fossil Collections of the World: An International Guide**. 1st Ed. International Paleontological Association. 216p.

These two very useful books have just appeared this month (July). They are available through the following address:

International Paleontological Association
c/o Paleontological Institute
Room 121, Lindley Hall
University of Kansas
Lawrence, KS 66-45-2124

These two volumes come free of charge to anyone who subscribes to *Lethaia*, an international journal of paleontology. Subscribers are automatically also members of the International Paleontological Association. The price for the Directory volume is given above. No price is listed for the Collections volume that I could find.

This is the 5th edition of the Directory, which began in 1960. An alphabetical listing of the names and addresses of professional paleontologists world-wide constitutes the main part of the Directory, that is, the first 306 pages. Each entry includes name, address, telephone or cable numbers in some cases, ages, kinds, and subjects of fossils studied by that person. This is followed by a taxonomic index, giving the names of fossil groups from acritarchs to zooarchaeology, with the surname and initial of each person who listed the category as a specialty. This is followed by a geographical index alphabetically by country, with the addresses of all organizations who have affiliated paleontologists.

The Collections volume is arranged alphabetically by country. Each organization within that country that maintains a fossil collection--museums, universities, government agencies--is listed. The countries range from Argentina to Venezuela. There is an address and in some cases a telephone number for each institution. Each listing includes the year of founding, the name of the person in charge, the size of permanent staff, and estimated number of specimens, broken down by categories (invertebrates, vertebrates, plants, microfossils, and so on). any special emphases in the collections are noted. Curation procedures are briefly described. If there is a published type catalogue it is listed. Services, lending policies and facilities are briefly described.

Both of these books are welcome additions to the worldwide interchange of information and ideas about fossils. Meaningful communication is one of the most important aspects of any scientific endeavor, which is why papers and books about fossils are published. These volumes are an important step in aiding such communication.

ADVERTISING SECTION

Ads are \$3.50 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 \$3.50 size.

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12/89

FOR SALE: A large Silurina trilobite *Arctinurus* over 5 in. long. For information write to:

Arctinurus
161 Siegfried Dr.
Williamsville, NY 14221

FOSSILS, TRILOBITE CHARTS, T-SHIRTS, INDEX
to NYS Guidebooks (1956-86: \$20.00) and
many more items. List \$2. Identify with
MAPS for Double refund on first order over
\$20.00. StrataGraphics, 63 Knoll Top
Drive, Rochester, New York 14623. 12/90

SEDIMENTARY NOTES

Roy K. Sharp, New Zealand, sent the following note with his dues renewal:

I have enjoyed being a member, and the trading responses from all over the world has been exceptional--so good in fact that I will have to temporarily alter my trading status from "Will trade" to "No trading meantime"...

This has been the best investment I have ever had as far as fossils are concerned, and I have Gil Norris to thank for talking me into membership...

BOOK AVAILABLE

In October the Geological Society of England published a book entitled *Origins and Evolution of the Antarctic Biota*. The volume is edited by J. A. Crame (British Antarctic Survey), and it will be No 47 in the Geological Society Special Publication series, price: 58.00 British pounds.

Outline of Contents:

Antarctica in Cambrian-Devonian Gondwana; Cambrian archaeocyaths; Cambrian molluscs and cephalopod origins; Devonian fish of Southern Victoria Land; evolution of Dicynodontia; forest growth in Antarctica; Antarctica cradle of temperate forests; Endemism in Seymour Island palynofloras Cretaceous terrestrial tetrapods; biotic links between New Zealand and Antarctica; Antarctic belemnite biogeography; evolutionary patterns in crustaceans; Upper Cretaceous Plesiosaurs; origin of Australian marsupials; floras from King George Island; evolution of Antarctic fishes; origin of Southern Ocean marine fauna; Antarctic marine mammals; Cenozoic deep-sea benthic foraminifera; Antarctica as evolutionary incubator.

CONTACT:

Geological Society Publishing House
Unit 7
Brassmill Enterprise Centre
Brassmill Lane
Bath BA1 3JN
Avon
ENGLAND

Telephone: (0224) 445046
International: + 44 225 445046
Fax: (0224) 442836

Please ADD the Following NEW MEMBERS to Your Directory:

Stuart Hanzlik
13736 Somerset Rd.
Poway, CA 92064
619-748-1049

11th grade High School student (1989). Wants to further his interest in fossils.

Russel J. Jacobson
402 McArthur Drive
Urbana, IL 61801
217-244-2425

Geologist--Illinois Geological Survey. Will trade. Major interest trilobites, crinoids, blastoids, dinosaurs. Has for trade crinoids, blastoids. Wants to keep informed about annual meetings & events where he can buy & swap fossils.

John Pojeta, Jr.
U.S. Geological Survey
National Center--MS970
Reston, VA 22092
703-648-5288

Paleontologist. Will not trade. Major area of interest early Paleozoic mollusks--late Paleozoic pelecypods.

Ernst Edinger
Gruenerweg 56
5090 Leverkusen 1
WEST GERMANY
0214-57469

Teacher. Will trade. Major interest Palaeozoic fishes, eurypterids, crinoids, trilobites. Has for trade Palaeozoic fishes, Permian fishes & amphibians, Eocene fishes (MESSEL). Wants to be in contact with others with same hobby.

Please Note the Following CHANGES OF ADDRESS and CORRECTIONS.

Steve, Pat & Leif Edmondson
4532 W. Dayton Airport Rd.
Shelton, WA 98584-8948

Rita McDaniel
519 - 7th Avenue South
Surfside Beach, SC 29575

Collecting 4 years. Major interest vertebrate fossils. Keen on trilobites and echinoids, too. Have small amount of trade items, Cretaceous and (mostly) Pleistocene. Looking for new fossil localities to make yearly 2 week collecting trip to. Want to learn more, share and exchange with others. Correspondence welcome.

Carlton T. Nash
412 E. 11th Ave
Naperville, IL 60563

Frances G. Radcliffe
1801 Laguna Ave.
Parker, AZ 85344

David M. Tanking
Rt. 1
Baldwin City, KS 66006

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 \$10.00 per household. Institution or Library fee is \$25.00. Overseas fee is \$10.00 with Surface Mailing of DIGESTS OR \$25.00 with Air Mailing of DIGESTS.

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 Bedford, Indiana, Swap. A picnic is held in August. November through April meetings are scheduled for 2 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: Peggy Wallace, 290 South Grandview, Dubuque, IA 52001
1st Vice President: Blane D. (Pappe) Phillips, 2758 J St. S.W. , Cedar Rapids, IA 52404
2nd Vice President: Doug DeRosear, Box 125, Donnellson, IA 52625
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