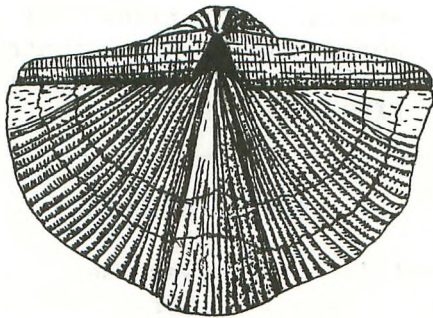


M.A.P.S. *Digest*

Official Publication of
Mid-America Paleontology Society

Volume 13 Number 7
October, 1990

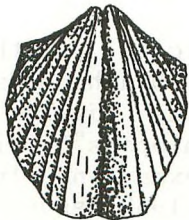


Neospirifer
cameratus
X1

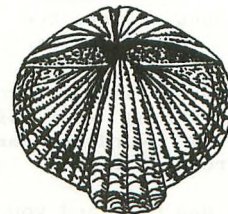


Punctospirifer
kentuckyensis
X2

TEXAS PENNSYLVANIAN SPIRIFERS



Neospirifer
texanus
X2



Anthracospirifer
matheri
X1

MARK YOUR CALENDARS

<p>6 OCT MAPS FIELD TRIPS--ROCKFORD BRICK & TILE, ROCKFORD, IA</p> <p>Meet at the quarry at 9:30. We will be hunting in Devonian rocks for a wide variety of fossils, including brachs, pelecypods, corals, microfossils, and possibly trilobites and crinoids. This is a large quarry just outside of Rockford to the west. Easy hunting. For better directions contact Marv Houg: 319-395-0577.</p>	<p>2 NOV FOSSILMANIA VIII</p> <p>3 AUSTIN PALEO & DALLAS PALEO SOC.</p> <p>4 Oakdale Park, Highway 144 South, Glen Rose, TX.</p> <p>Joan Crane, show chairman. 1603 Twilight Ridge, Austin, TX 78746. (512) 327-4005</p> <p>RV hookups, Cabins, Campsites, Fellowship, Swapping, Selling, Bar-B-Q Dinner, Baked Potato Bust</p>
<p>10 NOV MAPS MEETING. NOTE CHANGE OF WEEKEND. Place to be announced.</p> <p>1:00 Board & General Meeting combined. NOTE this is a change from having the board and general meetings at separate times.</p> <p>2:00 Program</p>	<p>19 APR 1991 MAPS National Fossil Expo- 20 sition XIII--Lagerstatten 21</p> <p>The theme for EXPO XIII is Lagerstatten, which means very special locations of fossils world wide. To contribute an article, contact Maggie Kahrs, EXPO <i>Digest</i> editor.</p>
<p>5 OCT BONE VALLEY FOSSIL SOCIETY, INC.</p> <p>6 7TH ANNUAL FLORIDA FOSSIL FAIR</p> <p>7</p> <p>Best Holiday Trav-L-Park & Campground. 2.6 miles east of Cypress Gardens on S.R. 540 or one mile west of U.S. 27 on S.R. 540, Winterhaven, Florida.</p> <p>Public Invited; Free Admission; Dealers; Displays; Concessions.</p>	<p style="text-align: center;">ABOUT THE COVER</p> <p>This month's cover was sent by Tom and Rosemary Akers, Spring, TX. The accompanying article (see p. 3) comes from the Brachiopod Study Group of the Paleontology Section of the Houston Gem & Mineral Society consisting of Dorothy Hall, Mary Morton, Schunke Lynch, John Herbert and the Akers. The group has completed its work and its <i>Publication Number 4, Texas Pennsylvanian Brachiopods</i>, is now available. It covers all 165 of the Texas Pennsylvanian brachiopod species mentioned in the professional literature and is over 240 pages long. It costs \$15 plus 8.5% Texas sales tax and postage.</p> <p>Two other articles by the Akers on Texas Pennsylvanian brachiopods have been published in the <i>Digest</i>: "Two Texas Pennsylvanian Brachiopods"*, in the March 1989 issue, and "Texas Pennsylvanian Chonetids" in the December 1989 issue.</p>

*** 90/10 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--90/10 means 1990/October. 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 your **name exactly as it appears on your mailing label** (or just 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

* **CORRECTION:** Tom and Rosemary wish to make a correction to the March 1989 article. They have found that the name of the brachiopod, *Teguliferina armata* (Girty) was changed to *Plainispina armata* (Girty) in 1960 by Muir-Wood, H.M. and Cooper, G.A. in their "Morphology, Classification and Life Habits of the Productoidea (Brachiopoda)".

SUMMER PICNIC AND MEETING

A MAPS picnic and meeting were held at the home of Doug DeRosear in Donnelson, IA, on July 29. It was good to see MAPS friends we usually don't see over the summer. The food was delicious, and we were treated to a tour of Doug and Connie's beautiful home and a look at Doug's fabulous fossil collection! Some of us even tried our hand at using Doug's air brace to clean what we hope weren't valuable fossils. It sure is lots easier and faster than chisels and picks, but, then, one can also make mistakes lots easier and faster.

The summer picnic/meeting was initiated this year to provide some continuity for the board through the summer. We look forward to next year's get-together and hope more of you will be able to join us.

**JULY 29, 1990 MAPS MINUTES
(exerpts)**

Motion was made by Peggy Wallace to raise annual dues to \$15.00 as of September, 1990. Overseas and airmail will remain \$25. Seconded and carried.

Motion was made by Gerry Norris to raise advertising charge to \$5.00 per 6 lines by 1 column. Seconded and carried.

Fossilmania Show date conflicts with MAPS in November; therefore, MAPS will delay the November meeting to Sat., Nov. 10. Moved by Gerry Norris, seconded and carried.

Motion was made by Allyn Adams to contribute a \$500 scholarship to the Paleo Society in the fall. Seconded and carried.

Doug DeRosear will go to the National GSA meeting in Dallas and present the scholarship then.

It was decided to limit tables at EXPO to 2 per customer. More can be allowed if there is no waiting list.

Announcements: Middle Tennessee State has established a scholarship honoring Onsbys Hammons. Andy Howard sent a donation of \$25 in memory of Onsbys Hammons for the MAPS Scholarship fund.

**VOTE ON BEW BLM/FOREST SERVICE FOSSIL RULES
by John Boland, MAPS member**

Two meetings in the last nine months involved negotiating new collecting rules by BLM/Forest Service, amateurs, and commercial dealers for fossils on public lands. These rules were briefly outlined in previous *Digests*. All society members are asked to vote on these new rules when published in the Federal Register in late September/early October. We will have 60 days to comment from the date of publication. In conversations with the BLM, we were informed that a representative vote would be at least 20,000 letters from interested citizens.

After the publication of the new rules in the Federal Register, we will give a summary and notify you in the *Digest* of the closing date for your vote. Review your past issues of the *Digest* (see *May and Summer, 1990*) for the proposed rules. It is important that all members be informed in advance so that a knowledgeable membership can vote quickly.

Interior Secretary Manuel Lujan and BLM Director Cy Jamison (Washington DC 20240) are reviewing the proposed regulations now. You can write to them now and encourage their approval of the fossil collecting regulations and continued multiple-use of public lands. Satisfactory regulations for collecting minerals and petrified wood by the hobbyist, are already in place.

SEDIMENTARY NOTES

David Cassel and wife, Nancy, sent a note from Czechoslovakia saying "the people and wine have survived Communism." Perhaps we'll see some fossils from Czechoslovakia at EXPO this year.

The Loyd J. Crawleys are spending the next three years in Belgium. See address change on page 9.

TEXAS PENNSYLVANIAN SPIRIFERS

by Tom and Rosemary Akers, Spring, TX 77389

Pennsylvanian outcrops in Texas boast 14 species of "spirifers" or wing shells belonging to the genera *Spirifer*, *Anthracospirifer*, *Neospirifer*, *Punctospirifer* and *Spiriferellina*. These extinct brachiopods are members of the two superfamilies, SPIRIFERACEA and SPIRIFERINACEA. Spirifers are generally transverse shells that in life had a short pedicle or stalk attaching them to various objects on the ocean floor. The shape of the spirifers allows ocean currents to bring food into the lophophore or brachia.

Identification of spirifers involves careful observation of the internal and external physical characteristics of the shell and elimination of species not occurring in the rock formation or group. Physical characteristics include size, shape and ornamentation. Ornamentation is expressed in the size and depth of the sulcus and fold, number and dividing patterns of ribs on the sulcus and fold and the lateral areas and the prevalence of growth lines. The sulcus is found in the center of the pedicle valve and fold is found in the center of the brachial valve.

A few representative and distinctive Texas Pennsylvanian spirifers are described as follows:

Anthracospirifer matheri

(Dunbar and Condra, 1932)

Marble Falls Formation (Morrowian Series)

This spirifer has a strongly convex pedicle valve with a deep, large sulcus and fold. The average size is 30 mm wide, 25 mm long and 20 mm thick. The sulcus has 7 to 9 ribs while about 12 occur on either lateral side. The ribs are few in number, strong and simple or undividing. Three other Anthracospirifer species, A. occiduus, A. opimus and A. rockymontanus, are also found in Texas.

Neospirifer cameratus (Morton, 1835)

Cisco Group (Virgilian Series), Canyon Group (Missourian Series), Strawn Group (Desmoinsian Series) and Marble Falls Formation (Morrowian Series)

N. cameratus has a transverse shape with the hinge line being roughly equal to the width of the shell. Typical measurements are 40 mm wide, 30 mm long and 25 mm thick. The sulcus and fold are prominent. The ribs generally are more numerous than Anthracospirifer and they often divide one or more times along their length. This division pattern is an important species identification feature. There are 11 ribs on the pedicle sulcus and 12 on the brachial fold. The lateral flanks on either side of the sulcus or fold have 20 to 24 ribs. Additional ornamentation includes fine radial lines and concentric growth lines. The five other Texas Pennsylvanian Neospirifer species are N. dunbare, N. goreii, N. kansasensis, N. latus and N. texanus.

Neospirifer texanus (Meek, 1871)

Cisco Group (Virgilian Series) and Canyon Group (Missourian Series)

This Neospirifer deserves special notice because of its unique shape. It is longer than wide and the sulcus and fold are prominent. Measurements are typically 25 mm wide, 30 mm long and 22 mm thick. There are fewer lateral ribs (10 to 13) than those on the sulcus or fold (10 to 12). Texas specimens are often found with the valves apart revealing strong hinge teeth with abruptly ending supports. The shape is so unique that the Neospirifer identification seems questionable. Only one paleontologist, however, has proposed a name change, and this did not receive general acceptance.

Punctospirifer kentuckyensis

(Shumard, 1855)

Cisco Group (Virgilian Series), Canyon Group (Missourian Series), Strawn Group (Desmoinsian Series) and Marble Falls Formation (Morrowian Series)

P. kentuckyensis is very transverse in shape and small to medium in size (10 to 28 mm wide and 9 to 11 mm long). The sulcus and fold are wide and prominent. The sulcus has a single rib and the fold has a single groove. Lateral ribs number from 5 to 12. Many growth lines are present. As

the name indicates the shell is punctate.
P. transversus is the only other Texas Pennsylvanian genus member.

References

1. Dunbar, C. D. and Condra, G.E. 1932. Brachiopods of the Pennsylvanian System in Nebraska: Nebr. Geol. Survey Bull. 5, 475 pgs, 44 pls.
 2. Moore, R.C. (Ed.) 1965. Treatise on Invertebrate Paleontology, Part H - Brachiopoda, v. 1 & 2, 927 pgs, illus.
 3. Plummer, F. B. 1943 (1950). The Carboniferous Rocks of the Llano Region of Central Texas: Univ. Tex. Pub. No. 4329, 170 pgs, 21 pls, illus.
 4. Spencer, R. S. 1967. Pennsylvanian Spiriferacea and Spiriferinacea of Kansas: Univ. Kansas Pal. Contr., Pap. 14, 35 pgs, 22 figs.
-

AAPS PRESENTS FIRST JIM WELCH SCHOLARSHIP*

The very first Jim (James R. Welch) Scholarship Award by the American Association of Paleontological Suppliers was made on Friday, September 14, at 7:00 p.m. during the Association's semi-annual meeting in the Rotunda at The Regency Hotel in Denver, Colorado. Members were in Denver to participate in the Greater Denver Gem, Mineral & Fossil Show. Dr. John Pojeta, Jr., President of The Paleontological Society, presented the award to James Loch, graduate student in geology from the University of Missouri @ Columbia. Mr. Loch, who was present, was awarded the scholarship for paleontological field based research.

The American Association of Paleontological Suppliers is an organization of commercial, paleontological enterprises. Its members

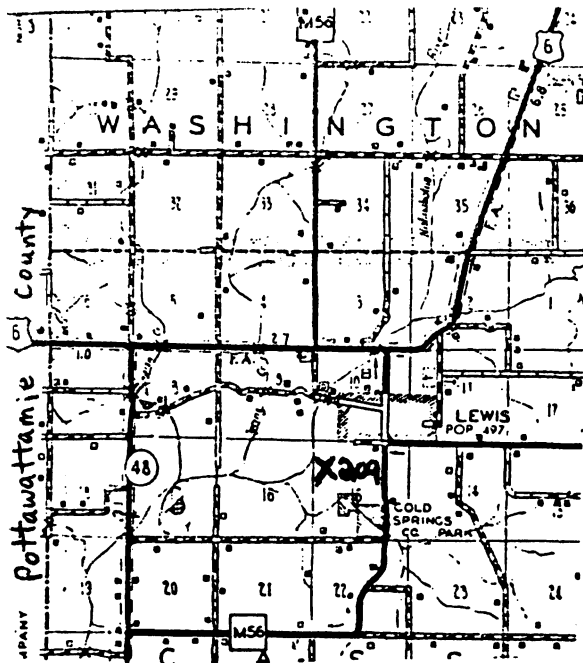
collect, prepare and provide fossil specimens to schools, museums and collectors all over the world. A primary purpose of this Association is to increase cooperation between the commercial community and the scientific, academic community in the field of paleontology. One means towards fulfilling that purpose is the creation of the Jim (James R. Welch) Scholarship to encourage graduate level, field-based research in paleontology.

The Paleontological Society, which is the largest professional association in the field of paleontology, participates in the selection of the candidates for the Jim Welch Scholarship. The AAPS membership then selects the recipient from among those candidates.

* Jim Welch was a MAPS member who was killed in a mishap while fossil hunting about a year ago.

THE OREAD FORMATION NEAR COLD SPRINGS STATE PARK, IOWA
Midwest Rockhound Services Report 209

by Robert Wolf, Midwest Rockhound Services, 3521 10th Avenue North, Fort Dodge, IA 50501



Cold Springs State Park is located about a mile south of Lewis (Cass County, Iowa) along the west side of paved County Road M-56. This is in southwest Iowa, about forty miles east of Omaha, in the NW¹/₄/NW¹/₄/NW¹/₄ section 15, T75N, R37W. In the field east of the park are exposures of Middle Cretaceous Colorado sandstone and conglomerate (report 208).

In the northern part of the park is an old road that is now closed to traffic. It leads west through the north section of the park to the East Nishnabotna River. This is about a twenty minute hike one way along the road to the bluffs along the river. The path is generally muddy in places and mosquitoes are usually abundant. However, it is a scenic walk through a flood plain forest, marsh, an old dried-up oxbow lake, and the former river channel.

Excellent exposures of the Pennsylvanian Period Oread Formation (Shawnee Group, Virgilian Series) occur along both sides of the river here, and these lie just outside the park boundary. I have not yet found a

The Oread Fm. exposed along the East Nishnabotna River near Cold Springs State Park. The river is visible in the right-hand side of the photo. Exposed from top to bottom are: the Kereford limestone, the Heumader shale, the Plattsmouth limestone, and the Heebner shale, with the Leavenworth limestone on the floor.

way to reach the bluffs on the west side. This is the best exposure of the Oread Formation that I have seen in Iowa and one of the best in the Midwest.

A minor exposure of bluish gray limestone (Clay Creek Member, Kanwaka Formation) and bluish gray shale (Jackson Park Member, Kanwaka Formation) occurs in a slope to the east of the river bluffs. The Kanwaka is slightly younger than the Oread. Neither member is very fossiliferous here.

Exposed along the eastern bank of the river is two feet of brown limestone (Kereford Member) with very abundant fusulinids, and three feet of gray-brown shale with

limestone lenses (Heumader Member) that offers good fossil collecting including an occasional beautiful shark tooth. Below that is a prominent ledge of two feet of brown limestone (Plattsmouth Member) that is quite dense in places. It has a layer of black chert, and fairly numerous fossils. The best collecting is in the upper part of the member, which has been weathered the most. Below that is 2¹/₂ feet of gray-brown shale and black fissile shale (Heebner Member). Some small fragile brachiopods occur in the brown shale, and occasional fish teeth and other fish fragments occur in the fissile shale.

Exposed at water level is at least two feet of dense, brown limestone (Leavenworth Member), but usually only the top of the

A HISTORY OF ANCIENT LIFE WRITTEN IN STONE
by Jo Ann Newberg, JOURNAL STAR, Peoria, IL
August 16, 1990

Reprinted with permission of the JOURNAL STAR

Some of the best history books are written in stone, and no one knows it better than (*MAPS member-ed.*) Mildred Scheffel Tennant, 71. She has spent years climbing the spoil piles of old shaft and strip mines searching for fossils.

The former physical education teacher at Woodruff High School has hundreds of specimens about 296 million years old. Many were obtained from the fossil-rich Mazon Creek area in northeastern Illinois, which was covered by a great inland sea in prehistoric times.

"It was a shallow sea in a tropical climate," said Tennant. "It would recede and come back, recede and come back. There was fresh water and salt water through the years, leaving behind both plant and animal fossils."

Uncovered by mining operations, the fossils are ironstone concretions, composed of silt- and clay-size particles cemented together by the iron carbonate mineral, siderite. They range in size from approximately one-fourth inch to 2 feet.

member is visible above the water. It has a few brachiopods, but collecting is difficult in the dense rock.

Fossils that can be collected here include crinoid columns, fish teeth, fusulinids, branching bryozoans, lacey bryozoans, several types of brachiopods, burrows, stromatolites, horn corals, incomplete trilobites, and echinoid spines. "Rice agate," which is black chert with white fusulinids, occurs in a few places in this part of Iowa, but no such association was seen here.

If you have any comments or information concerning this site, I would like to hear from you.

Tennant has fossils of plants, jellyfish, worms, snails, barnacles, shrimp, clams, scallops, plus 30 some specimens of the Illinois state fossil, the tully monster. She found some tullies at Mazon Creek, others at the Astoria site where fossils of the foot-long monster, described as a soft-bodied aquatic worm, were discovered.

"Look at the long neck, and the claw at the end used to grasp food particles."

Tennant's interest in fossils began when she was a young girl exploring the cliffs near her home in Litchfield and continued during her years at Illinois State University.

Today, her major obstacle in fossil-collecting is a lack of good sites. "I used to get into the Banner Mine as an individual, but they didn't want groups. Then someone killed 200 ducks there, and now it's closed to everyone."

The Mazon Creek site was mined out in 1976, and sold to Commonwealth-Edison. The company flooded much of it for a cooling pond, but allows fossil hunts in a specified area, Pit 11. Other parts of the site are now private property. "Last year, I was out there the first morning it opened after winter," said Tennant, "but there was nothing there. In 1968, the first time I went, it was great. I carried out all I

could. I have a lot of fossils piled in a shed out back, and I'm eager to get to work on them."

Work consists of labeling and mounting them in glass-topped trays. Stacks of these line the basement walls of her home on East Hines Avenue.

Fossils are sometimes freed from their flat rock enclosure by freezing and thawing temperatures over many years, which fracture them along lines of least resistance. Rocks not yet broken open will be halved by Tennant using the same method.

On one of her trips to Pit 11, she came home with a batch of muddy, frozen fossils. She put them outside and poured hot water on them. "The next morning before school, I dumped more water on them. The next morning, one popped open, and it was an egg case from a shark, a gorgeous specimen. I was on cloud 9. It was almost 290 million years old, give or take 10 million years."

Another fossil popped open to reveal an infant shark. She had received a paper about a study done on the shark just a few weeks earlier.

She smiles as she tells of the telephone call she received one day from a fellow fossil-hunter. "Eileen Mosiman was just getting started and asked me to come over and see the fern leaf she'd found. It was an amphibian. I could see that even with the naked eye. I had been looking for an amphibian all my life."

Recognized as an expert on local fossils, Tennant has been asked for assistance by paleontologists from as far away as Australia.

Dr. David Bardack of the University of Illinois at Chicago asked for help with a study of haplolepid fish from Mazon Creek. She found several specimens from Peoria-area folks, Helen Asher, Eileen Mosiman, Jack Engles, staff at Bradley University, and herself.

"He worked here from early morning until 8 p.m. His daughter was in Macomb, and he had a dinner date with her. He told me, 'Looks like I'm going to be late for dinner.'"

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 \$3.50 size.

Pleistocene Buffalo Teeth (*Bison antiquus*) \$2.50 and \$4.50; Jaws \$12.00 to \$40.00. Horn, Skull Caps, Skulls, Post-cranial material available: 8,000 to 25,000 years old. Send S.A.S.E. for list of Pleistocene fossils. **Rib River Fossils**, 1014 W. Hwy C, Mosinee, WI 54455 (715-457-6634).

FOSSILS, FOSSIL CHARTS, T-SHIRTS, INDEX to NYS Guidebooks (1956-86: \$15.00) and many more items. Send \$1 for 26 page catalog.

IDENTIFY with MAPS

StrataGraphics, 63 Knoll Top Drive, Rochester, New York 14610. 12/90

The Earth Science Club of Northern Illinois is pleased to announce their latest publication,

Keys to Identify Pennsylvanian Fossil Animals of the Mazon Creek Area.

This large 8 1/2 by 11", 136 page book has line drawings of actual specimens as found in the field, reconstructions to illustrate how these animals looked in life, and detailed anatomical descriptions.

Uniquely illustrated with over 375 original line drawings, this is the first single volume work to focus solely on all the animal phyla from the famed Mazon Creek deposit.

This work is designed to aid the user in identifying major Mazon Creek animal fossils. Employing 43 shape-form keys, the book leads the user to 96 genus classifications, 56 species identifications, embracing 12 different phyla.

TO ORDER:
MARTHA PREPP
5858 WOODWARD
DOWNERS GROVE, IL
60515

MAKE CHECKS TO:
ESCONI
\$14.00 PER COPY
POSTPAID

PLANT BOOK SOLD OUT
Let us know if you are interested
in a reprint

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

John H. Bernard
Shelloak
Route 3, Box 74
Crossville, TN 38555
615-484-7167

Specimen sea shell dealer. Also interested in fossils.

Larry Carter
RR #2, Box 156
Ridgeville, IN 47380
317-584-0737

Custodian. Will trade. Major interest trilobites, crinoids, gastropods. Has for trade a few trilobites, crinoids, some heads. Member Indiana Paleo Society. Wants to be associated with other people with the same interest; also to share that interest at show, etc.

Wes & Fran Cummins
4043 Rincon Ave.
Campbell, CA 95008
408-379-8996

Teachers. Will trade. Major interest trilobites, dinosaurs, fish--most everything--eclectical tastes. Have for trade trilobites, fish, ammonites. Want to learn, exchange ideas, trade.

Barbara Fite
16102 E. Lake Burrell Dr.
Lutz, FL 33549

Granville Twp. Lib.
200 East Main Street St.
Henry, OH 45883

Robert L Karvonen
783 Robinhood Circle
Bloomfield Hills, MI 48304
313-577-1290

Professor of Medicine. Will trade. Major interest trilobites, Precambrian.

Daniel Kuehne
209 Plymouth Place
Merchantville, NJ 08109
609-662-0004

Laborer; aspires to become geologist. Will trade. Major interest invertebrate paleontology. Has for trade cretaceous invertebrate fossils from NJ. Member Delaware Valley Paleo Society. MAPS was recommended by other members; wants the DIGEST and to expand knowledge.

Roger Dale McDonald
427 Burlington Avenue
Missoula, MT 59801

Music professor. Collecting since 1980. Amateur status only.

William F. Ray
10 Tamwood Circle
Simpsonville, SC 29681
803-967-4524

Salesman. Will trade. Major interest Cretaceous of Texas plant fossils. Has for trade Tertiary fossils, microfossils. Member SC Earth Sci. Soc. Wants to meet others and learn more about fossils.

Please Note the Following CHANGES OF ADDRESS and CORRECTIONS.

David Cassel
7000 Soquel Dr. 351
Aptos, CA 95003
408-429-9333

Major interest echinoids, arthropods & crustaceans,
and small vertebrates. Will trade.

Loyd J Crawley
Avenue Louise 114, B22
1050 Brussels
BELGIUM

OMIT WILLING TO TRADE

Thomas Coughlin
12629 Sauterne, Apt. D
St. Louis, MO 63146

Thomas E. DeRocha
395 Rich Ave.
Biloxi, MS 39531
601-388-6242

Retired. General interest in all fossils. Wants to
learn. Will trade fossils and locations.

John E. McArdle
15354 Lesley Lane
Eden Prairie, MN 55346

Joe Taylor
208 So Farmer
Crosbyton, TX 79322

Jan Van Donk
661 Hubbard Rd.
Galloway, OH 43119-9462

Lou Walter
Lou-Bon
VA

CHANGE NAME FROM LYNNE S.B. TISCHER

David Wells
7434 Sportsman Dr.
Falls Church, VA 22043-1031
703-790-9025

The Austin and Dallas Paleontological Societies Present

FOSSILMANIA VIII

FOSSILMANIA VIII will be held at Oakdale Park, Glen Rose, Texas on November 2-4, 1990. Displays, trade, or sale items are to contain only fossil or fossil-related items.

HOURS: Friday November 2, 1:00 p.m. to 6:00 p.m.
Saturday November 3, 9:00 a.m. to 6:00 p.m.
Sunday November 4, 9:00 a.m. to noon

LODGING: Trailer Sites \$11.25/night (full hook-up)
Tent Sites 7.65/night + \$2.00 each additional adult
Cabins* 36.00/night - 2 double beds, linens furnished

(3 double beds - \$41.34/night - with kitchen facilities, without linens. Rent directly from Oakdale Park, PO Box 548, Glen Rose, Texas 76043. 817/897-2321)

*All cabins are air-conditioned and heated. There is a 2-day (Friday and Saturday) minimum requirement on all cabins. A local motel and state park are listed below for your information.

MEALS: There are several cafes in town. FOSSILMANIA will sponsor a Potato Bust on Friday night at 6:30 and a Texas BBQ on Saturday night at 6:30.

EXHIBITS: Let us know if you intend to bring an exhibit. Tables will be provided free. Let us know dimensions of case and any electrical requirements.

TABLES: Tables will be assigned on a first-come, first-served basis. The cost is \$10 for a 6-foot table for the entire weekend. If tables are not already reserved, reduced cost basis for partial days will be available.

FIELD TRIPS: No field trips will be sponsored during the show. However, we will have information available for trips in the surrounding area.

AUCTION: We would like a donation of one nice fossil specimen for the live auction to be held Saturday night after the BBQ. Please be prepared to provide full data on the item and the name of the donor.

RESERVATIONS: Everyone should make advance reservations as soon as possible, but no later than October 5, 1990. Cabins not reserved by that date must be released back to Oakdale Park. Please separate the reservation form below and send it to Joan Crane, 1603 Twilight Ridge, Austin, TX 78746. Make checks payable to the Austin Paleontological Society. For additional information you may also call (after 5:00 p.m.) Frank or Joan Crane at 512/327-4005.

MOTELS/RV SITES: Glen Rose Motor Inn on US 67. Single \$38/night/\$4 extra person + tax.

Dinosaur Valley State Park - From US 67, FM 201 east 4 miles. Park Road 59 east 1 mile. Entrance \$2/day. Water/electricity/sewer hook-up \$10/day; water/electricity hook-up \$9/day, primitive camping \$4/day. The state park is popular - you can make reservations up to 90 days in advance (requires a deposit equal to the first night's cost). PO Box 396, Glen Rose, TX 76043, 817/897-4588.

SECURITY WILL BE PROVIDED BUT WE CANNOT BE RESPONSIBLE FOR LOST OR STOLEN ITEMS

Name _____ Phone() _____

Address _____ City _____ State _____ Zip _____

Cottages: 2 dbl beds \$36.00/night, linens furnished \$
PLEASE CHECK: Thurs ____, Fri ____, Sat ____
Campsites: Trailer Sites @ \$11.25/night \$
Tent Sites @ \$7.65/night + \$2/ea add'l adult \$
Meals: Potato Bust @ \$4.00/person Friday night \$
Texas BBQ @ \$8.00/person Saturday night \$
Combo PB/BBQ @ \$11.00/person (save \$1) \$
Tables: 6' table for weekend @ \$10.00 each \$

TOTAL ENCLOSED \$ _____

Exhibits: Yes _____ No _____ Case Size _____ Electricity Req'd: Yes or No _____

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 \$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 Bloomington, IN, Gem, Mineral, Fossil Show & Swap. A picnic is held the fourth weekend in July. 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: Gil Norris, 2623 34th Avenue Ct., Rock Island, IL 61202
 1st Vice President: Allyn Adams, 612 W. 51st Street, Davenport, IA 52806
 2nd Vice President: Karl Stuekerjuergen, R.R. #1, Box 285, West Point, IA 52656
 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

Dated Material - Meeting Notice

FIRST CLASS MAIL

EXPIRATION DATE..... 90/12
 Allyn & Dorris Adams
 612 W. 51st Street
 Davenport, IA 52806