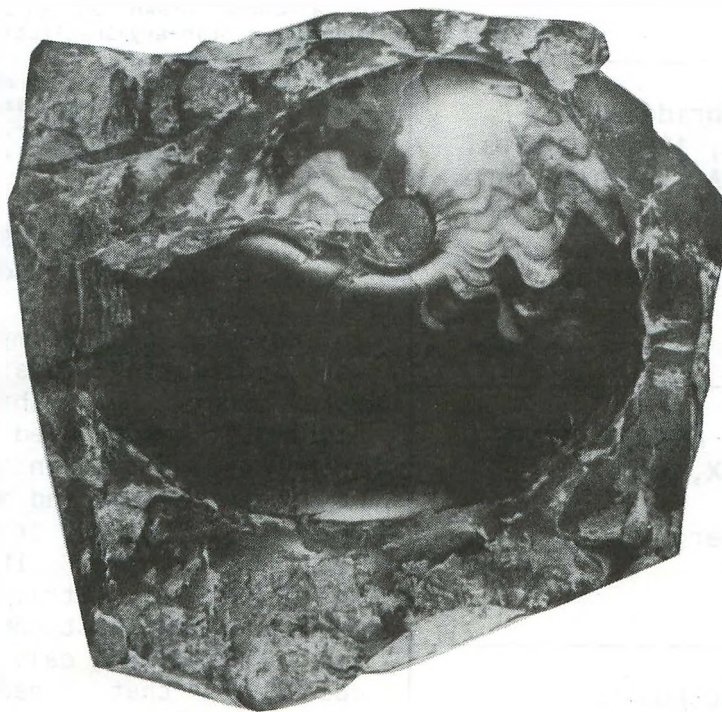


# M.A.P.S. *Digest*

Official Publication of  
Mid-America Paleontology Society

Volume 19 Number 1  
January, 1996



MAPS EXP. DATE..... 96/12  
Allyn & Dorris Adams  
612 W. 51st Street  
Davenport, IA 52806

**MARK YOUR CALENDARS**

**13 JAN MAPS MEETING. Cornell College  
Geology Department, Mt. Vernon,  
Iowa.**

1:00 Board & General Meeting  
combined.

2:00 Program: Cornell  
Professor Ray Rogers will be  
the speaker, and we will tour  
the repository.

**NO MAPS MEETING IN FEBRUARY. LAST MONTH'S  
LISTING WAS AN ERROR.**

**9 MAR MAPS MEETING. Trowbridge Hall,  
University of Iowa, 123 N. Capital  
St., Iowa City, IA. Main Lecture  
Room, #125.**

1:00 Board & General Meeting  
combined.

2:00 Program:

**7 APR 1996 DINFEST II, ARIZONA STATE  
UNIVERSITY, PHOENIX, AZ.  
21**

Contact: Don Wolberg  
(202)720-7178

**12 APR 1996 MAPS NATIONAL FOSSIL  
13 EXPOSITION XVIII—BRACHIOPODS  
14**

Fri., Apr. 12: 8am - 5:30pm  
Sat., Apr. 13: 8am - 5pm  
Sun., Apr. 14: 8am - 3pm

**ABOUT THE COVER**

This month's cover photo is a polished ammonite from Morocco. It is from the collection of Gil Norris.

**\*\*\* 96/01 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--96/01 means 1996/Jan. 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 \$20 per U.S./Canadian household per year. Overseas members may choose the \$20 fee to receive the Digest by surface mail or a \$30 fee to receive it by air mail. (Please send a check drawn on a United States bank in US funds; US currency; a money order; or a check drawn on an international bank in your currency.) Library/Institution fee is \$25.

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

**I WONDER WHO LOST THIS CRINOID?  
by Mildred D. Scheffel-Tennant**

In November of 1991 my husband, Jake, and I were collecting fossil shark teeth. We were under the fishing pier at Venice, Florida. We enjoyed the collecting and soon Jake spotted an interesting ? ? ? ? I was next to him and immediately recognized the fossil as a crinoid from Livingston County, Illinois. It was obviously one of Christina C. Strimple's crinoids. The specimen had just come in on the tide. It was a complete calyx with arms, a lovely specimen that had been beautifully cleaned. But it was somewhat scarred by the surf.

It was unbelievable to find such a beautiful specimen from a small rock quarry at Pontiac, Illinois, in the Gulf of Mexico.

Eventually, after some correspondence, Christina Strimple and I met at MAPS EXPO. She was shocked to think that a \$200 specimen of hers was found in the Gulf.

**EXPO XVIII REGISTRATION INFORMATION**

This month's issue of the *Digest* contains all the information necessary for getting tables and rooms at EXPO, April 12-14. See pages 6-7. Hotel rooms sometimes fill up at EXPO time because of other events at the University, so it's a good idea to make reservations early.

This year's keynote speaker is Tom Dutro, retired from the USGS in Washington, D.C. He will present a program on brachiopods, our theme for this year. Prior to the program, the Paleontological Research Institution will present its Kathryn Palmer Award to an amateur who has made a significant contribution to the field of paleontology. To give MAPS officials who close the floor enough time to eat before the program, we will be closing the show at 5:30 Friday. This is a change from previous years.

Once again we will be using just the main ballroom and the adjoining lobby, so we must limit tables to 2 per family/membership (with rare exceptions) so that all members can be accommodated. Materials can be stored under tables, but no material is allowed in the aisles. Also, EXPO is a fossil and fossil-related only show--no other types of materials are allowed on the floor.

**MEET YOUR NEW OFFICERS**

The following slate of officers for 1996 was elected by unanimous ballot at the November MAPS meeting:

- ✓ President: Marvin Houg
- ✓ 1st Vice President: Dale Stout
- 2nd Vice President: Karl Stuekerjuergen
- ✓ Secretary: Alberta Cray
- ✓ Treasurer: Sharon Sonnleitner
- ✓ 1 year Director: Tom Walsh  
(To fill vacated position)
- ✓ 3 year Director: Allyn Adams

✓ Blane Phillips has 2 years remaining in his term as Director.

**SEND DIRECTORY INFORMATION NOW**

A complete *Directory* will be published this year, so please send any changes of address and/or nodules to the editor by February 15. Previously-sent changes will be noted. At present, we plan to publish only an Update in 1997.

**HELP PUBLISH WORK ON DEVONIAN CORALS OF IOWA**

*Excerpts from a letter from the Paleontological Research Institution:*

...Dr. Jim Sorauf is a professor at the State University of New York at Binghamton, and an expert on Devonian corals of Iowa. He has just completed a landmark manuscript on the corals of the Lime Creek and Shell Rock Formations in Iowa, which he would like to have published in our journal, *Bulletins of American Paleontology*. Although I am neither a coral worker nor an expert on Iowa fossils, I know excellence when I see it. This work is destined to become the authoritative source on these important and beautifully preserved fossils for at least the next generation. It would be enormously useful to and valued by not only professional paleontologists and geologists, but also the many amateur collectors in the Midwest.

Because of its size and number of illustrations, however, the costs of publishing this magnificent piece of work will be high. Jim has managed to raise \$2100 of the \$7000 needed, but he has run out of places to look for the rest. I am wondering whether...any...members of MAPS...might have any ideas of individuals or foundations that might be interested in supporting the publication of a work that would have such great significance for understanding the geological history of Iowa. All contributions in support of publication would of course be tax-deductible to individuals. Any leads at all would be most appreciated.

Thanks in advance for your help...

Sincerely, Warren D. Allmon, Director

P.S. I would be happy to provide an inspection copy of the manuscript to any interested parties.

## FOSSIL STRENGTHENS LINK BETWEEN DINOSAURS AND BIRDS

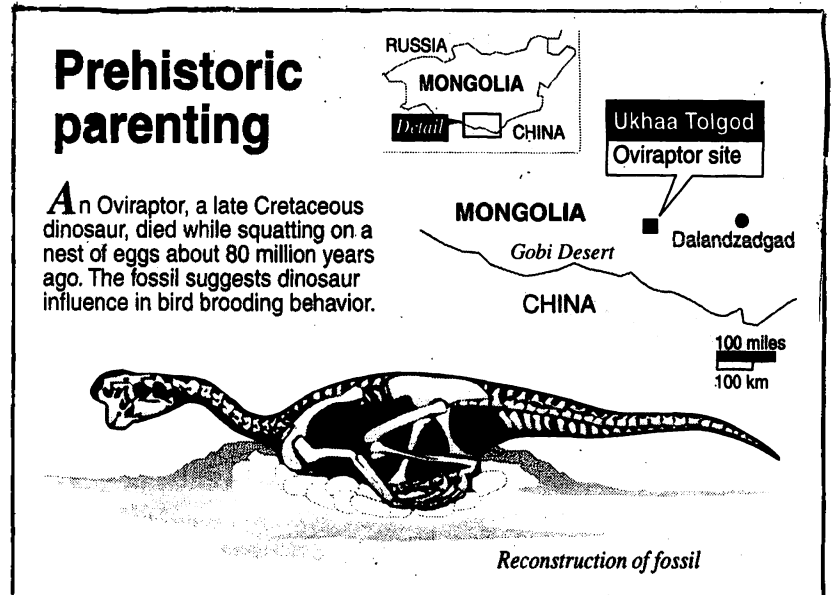
sources: Wilford, John Noble. "Fossils show link to birds," *The Denver Post*. 12/21/95.  
 "Fossil reveals dinosaurs sat on eggs," *Cedar Rapids Gazette*. 12/21/95.

A site in central Mongolia's Gobi Desert that has turned out to be one of the richest lodes of reptile and mammal fossils from the end of the age of dinosaurs has yielded a spectacular fossil that links dinosaurs to birds. In 1993 scientists from the American Museum of Natural History in New York City and the Mongolian Academy of Sciences unearthed a chunk of red sandstone containing fossils that turned out to be an 70- to 80-million-year-old, 9-foot-long, dinosaur squatting over a nest filled with eggs.

The Oviraptor, a meat-eating dinosaur resembling a small, wingless ostrich with a tail, is thought to have been brooding a clutch of 15 or more eggs when it was engulfed by a sand storm, either before or shortly after it died. A quick burial deep in dry sand fossilized the animal's bones and eggs and preserved them exactly in place.

Its legs were tucked tightly behind its body in a manner corresponding to the posture of modern nesting birds such as chickens and pigeons. The arms were held back and somewhat to the side, circling the nest in a protective posture. The eggs, measuring 7 by 2 1/2 inches, were arranged in a circular pattern directly under the squatting animal, much like the eggs of modern birds.

Although the Oviraptor was excavated two years ago, the scientist did not discover the nature of their find for many months. Team leader, Dr. Mark A. Norell, a paleontologist at the American Museum said, "You could just look at it, and it jumps out at you as an animal sitting on a nest." The team concluded, "This finding provided the strongest evidence yet that modern avian brooding behavior evolved long before the origin of modern birds" and occurred in some dinosaurs.



Source: *Nature*  
 from the *Denver Post*

AP/T. Tso

Noted dinosaur expert, Jack Horner, said he considers it "one of the two best specimens of dinosaur fossils ever found." We've had nests and babies and all sorts of things, but we had never had the direct evidence of the parent with the eggs," he said. "By far this is the strongest evidence of some kind of parental attention."

## OLDEST KNOWN FROGS FOUND IN ARIZONA

source: "Rrrribbiting news: First frogs were Arizonans," *Prescott Courier*. 9/1/95.  
 sent by Jim & Sylvia Konecny

Recently prepared fossils may push the age of the frog back 5 to 15 million years. Preparation and analysis of 190-million-year-old bones found in northern Arizona revealed 2 inch long frogs now named *Posalirus bitis*, meaning "leap forward" "high over it."

Although they were discovered in the early

1980's about 60 miles northeast of Flagstaff, the fossil bones laid in storage at Cambridge, Massachusetts, while attention was focused on preparing some of the earliest mammals, turtles, dinosaurs and other amphibians also found at the sight. The jumble of bones was at first thought to belong to small lizards but turned out to belong to at least four individual frogs. Once analysis is complete, some will be displayed at the Museum of Northern Arizona, and some will stay at Harvard.

The previous oldest-known frog is a single specimen from South America. It is a different species, and while its age is uncertain, it may be anywhere from the age of the Arizona frogs to 15 million years younger.

The area in which the frogs were found, Gold Springs Quarry on the Navajo Reservation, had streams and lakes when the frogs were alive. Today it is desert and the home of the western spadefoot toad, which lives underground for most of the year. It emerges during summer rainstorms, eats a year's worth of food in two to three days and lays eggs that grow from tadpoles to burrowing adults in less than two weeks, before the rain pools dry up.

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#### ROCK COLLECTING AND THE LAW IN ILLINOIS sent by Richard Gottfried

*Jim L'Ecuyer, of the Eastern Missouri Society for Paleontology contacted the Illinois Geological Survey about arrest of fossil collectors in Illinois. This letter is the result.*

July 7, 1995

Dear Mr. L'Ecuyer:

David Gross, with whom you spoke today by telephone, has told me that one of your club members was recently arrested by a police officer for violation of the Illinois Archeological and Paleontological Resources Protection Act (20 Illinois Compiled Statutes, Act 3435). This is the first instance I have ever heard about

regarding enforcement of this act. As one of those who helped to write the act, I am pleased to provide you with the following interpretation of its meaning and intent.

Under section 3435/02, the definition of "paleontological resource" is restricted to those fossil remains on public lands "that are known and are included in the files maintained by the Illinois State Museum under Section 10." The underlined phrase limits the protection of the act to those fossils remains that are contained in sites already known and registered in the files of the Illinois State Museum. The intent of the act was to protect only already known sites where rare or exceptional fossils, especially large vertebrates such as mastodons and mammoths, have been collected. The definition of a paleontological resource in the the act was intended to specifically exclude from protection the huge numbers of invertebrate fossils available from the thousands of road cuts and outcrops scattered across the state on both public and private lands. To my knowledge, the Illinois Historic Preservation Agency has never promulgated any regulations for this Act.

I have checked with Dr. Bonnie Styles, Assistant Director for Science, Illinois State Museum, Spring and Edwards Streets, Springfield, IL (217) 782-7475. She stated that the only sites recorded in the files of the Illinois State Museum are those where *vertebrate* remains are known. Currently, therefore, **there are no sites in Illinois that are protected in any way because of the presence of invertebrate fossils.** Of course, collecting of any kind is prohibited in state parks, nature preserves and other similarly protected public lands.

Should you wish to do so, you may forward a copy of this letter to the police jurisdiction where the arrest occurred. Your club members may also wish to have a copy of this letter with them when collecting in Illinois.

Cordially,  
Jonathan H. Goodwin, Head  
Technical Services Group



## NATIONAL FOSSIL EXPOSITION XVIII - 1996

**LOCATION AND TIME** EXPO will be held at the Student Union, in the Grand Ballroom, on the campus of Western Illinois University, Macomb, Illinois. The simplest way to the site is to turn off IL 67 west on University Drive, then go south to the Union. (Follow the signs.) Set-up is permitted on Friday, April 12, at 8:00 a.m.

EXPO HOURS:      Friday, April 12 - 8:00 a.m. - 5:30 p.m.  
                          Saturday, April 13 - 8:00 a.m. - 5:00 p.m.  
                          Sunday, April 14 - 8:00 a.m. - 3:00 p.m.  
                          (Many people leave early Sunday)

**TRANSPORTATION** There are 2 highways leading into Macomb - IL 136, an east-west route, and IL 67, a north-south route.

There is no plane service to Macomb at this time, but we will help to arrange transportation from Moline, IL, airport if you will make **ADVANCE** arrangements with Mrs. Gerry Norris, 2623 34th Ave. Ct., Rock Island, IL 61201 (309-786-6505). Or you can fly into St. Louis, MO, or Peoria, IL, and rent a car and drive to Macomb.

**LODGING** Persons traveling in self-contained camping units may park on the parking lot. See Public Safety located in the Union. **IDENTIFY WITH MAPS.**

**Macomb area code - 309**

**Macomb zip code - 61455**

Prices on motel rooms will no longer be published in the Jan. *Digest* because there were complaints last year from some motel guests about a change in prices, and one motel manager was very perturbed that we had listed prices in the *Digest*. We have also been informed that most motels now have two prices, one for weekdays and one for weekends. When you call for reservations, it may be a good idea to ask, if you want prices.

Motels are listed according to what has generally been the highest-priced one to the lowest-priced one in order to give you a general idea of the price range. It has been reported that some of the hotels are raising the price for EXPO weekend, so you might want to check prices.

<b>Ameri Host</b>	1646 N. Lafayette	837-2220
<b>Holiday Inn</b>	1400 N. Lafayette	833-5511 or 1-800-HOLIDAY
<b>Super 8</b>	313 University Drive	836-8888
<b>Travel Inn</b>	Hwy 136 W.	833-4521
<b>Time Out Motel</b>	Hwy 67 North	837-4838
<b>Star Motel</b>	Hwy. 67 S. and 136 E. 1507 E. Jackson Rd.	837-4817

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 If you plan to stay at a motel, we urge you to make your reservation early.  
 Local motels are generally filled during the weekends.  
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**Union** - Contact **Gilbert Norris**, 2623 34th Ave Ct., Rock Island, IL 61201 (309-786-6505) to see if rooms are available. Rooms are to be paid directly to the University Union when you check in or out.

**DO NOT CONTACT** Western Illinois University. These rooms must be rented for both Friday and Saturday. You must request rooms early and pay for them before March 30, 1996. You may wish to be on standby.

**DON'T FORGET - In all cases identify with MAPS.**



**PARKING**

For those living in the Union, parking will be east of the Union with room permits. For others, get visitor permits from Public Safety. Parking in specified lots. After 5:00 p.m. Friday ample parking. Before 5:00 p.m. - patience needed.

**MEALS**

Meals are available in the Union: fast food in the lower level and a deli in the basement. Ice cream is also available! There are many restaurants in town and a deli bar in a nearby grocery store.

**EXPO REGULATIONS**

Everyone is requested to make advance registration by March 30, 1994. Mark your calendars now so you don't forget! Registration forms are found on page 8 in the *Digest* for your requests for tables, display space, etc. Send these forms and your check made payable to MAPS to: Karl Stuekerjuergen, 1503 265th Avenue, West Point, IA 52656-9029. Please send **dues to Treasurer** before EXPO--it is a lot of extra work for us to accept them at EXPO.

**ALL TABLES WILL BE ASSIGNED.**

Cost of the tables is \$15.00 each for a 6' table in the Ballroom for the weekend; \$15/table in the Lobby. (Lobby tables will be used only for overflow.) **MAXIMUM of 2 tables per person initially.** Over 2 tables wanted? You may request extra tables, and if they are available you will be notified after March 15th (pay for these at EXPO). Requests for extra tables will be filled in rotation--one table per person per round until all space is gone. Also, those with special needs for more than 2 tables may apply to the Board by March 1 for an exception. All decisions will be made as soon as possible, with all decisions made by March 7. **(No more than 4 tables will be allotted to a person, family or group, whichever is the larger unit.)**

The Committee insists that all materials be fossil or fossil related. Mountings, gemstones, minerals, Indian relics, etc., are not permitted! Aisles must be kept clear at all times.

**DISPLAYS.**

EXPO is special because of displays. They are a gift. They give us all a look at the ancient epochs of the world. Display tables are provided at no cost - 8 ft. limit. Bring your own lights, if you need lighting. If you need more space, please contact Doug DeRosear.

**ALL RESERVATIONS WILL BE ACKNOWLEDGED****OTHER ACTIVITIES.**

BRACHIOPODS will be this year's theme. Friday's **Keynote Speaker** will be Tom Dutro, retired from the U.S.G.S., Washington, D.C. His program will be on brachiopods and will be preceded by the presentation of the **Kathryn Palmer Award** by the Paleo Research Institute. A **live auction** will follow a **short business meeting and awards** presentation on Saturday evening. Proceeds go to a geology scholarship. Each dealer is expected to contribute a specimen/specimens equal to or greater than the cost of the tables he/she has rented in order to assure consideration for table space at the next EXPO. Include full data and the name of the fossil donor. Specimens can be left at the information desk until 3:00 p.m. Saturday. If you wish to mail a specimen, send it with pertinent information to Paul Rechten, 7405 Shields, Harvard, IL 60035. Paul will send a postal acknowledgment on receipt of specimen.

Show Chairman...Gil Norris, 2523 34th Ave. Ct. Rock Island, IL 61201.....(309) 786-6505  
Co-Chairman...Allyn Adams, 612 W. 51st Street, Davenport, IA 52806.....(319) 391-5443  
Table Reservations.Karl Stuekerjuergen, 1503 265th Ave., West Point, IA 52656.(319) 837-6690  
Auction...H. Paul Rechten, 7405 Shields, Harvard, IL 60035.....(315) 943-4178  
Publicity...Tom Witherspoon, Sr., 6611 Miller Road, Dearborn, MI 48126.....(313) 582-3139  
EXPO DIGEST editor...Maggie Kahrs, 9145 U.S. Hwy 50 East, Seymour, IN 47274...(812) 522-6093



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

Kevin Burgart  
& Janet Shapouri-Burgart  
PO Box 60684  
Nashville TN 37206  
615-262-8078

Donna Cummings  
Geological Enterprises, Inc.  
P.O. Box 996  
Ardmore OK 73402  
405-223-8537  
fx. 405-223-6965

Lawrence Gagnon  
72 Elm Street  
Waterville ME 04901

M. Craig Miller  
2311 Scenic Dr.  
Lancaster OH 43130

Mark D. Paulhus  
7102 67th Drive NE  
Marysville WA 98270  
360-653-2792

Director of engineering--boat company. Major interest invertebrates, particularly cephalopods. Interested in meeting & communicating with other fossil enthusiasts.

Harriot Printz  
614 McCully St.  
Pittsburgh PA 15243  
412-343-5831

Teacher. Interested in fossiling partners in NE USA or Ontario. (Has summers off.)

Jeff H. Smith  
J & M Enterprises  
PO BOX 3125  
LAGRANGE GA 30241  
706-882-1320  
fx. 706-884-7020

Fossil dealer and collector, also owns printing company. Wants to make contacts with others for selling, buying and trading of good quality of fossils for own collection and resale.

Ed Swiatovy  
Rte 2 Tee Taw Circle #14  
Sherman TX 75092  
903-892-6864

Retired. Will trade. Major interest Cretaceous marine fossils including shark, mosasaur, plesiosaur, ammonites and echinoids. Has for trade Cretaceous shark teeth, mosasaur bones. Member of Dallas Paleo Soc. Wants to meet and correspond with people with similar interests.

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

Ron Baalke  
1618 E. Orange Grove Blvd.  
Pasadena CA 91104

Kevin Shannon  
311 Kings Rd  
Whiteville NC 28472  
910-640-2037

Michael Hill  
4412 26th Loop SE  
Lacey WA 98503-3234

Dale Stout & Family  
2237 Meadowbrook Dr. S.E.  
Cedar Rapids IA 52403  
319-365-7798

Mrs. Ruth Kirkby  
P.O. Box 12455  
Scottsdale AZ 85267

Patrick Norton  
11 Harvey Brook Drive  
Freeport ME 04032  
207-865-0583

**NATIONAL FOSSIL EXPO XVIII--REGISTRATION FORM**

Please complete the form below, enclose a check payable to MAPS, and mail to Karl Stueker-Juergen, 1503 265th Ave., West Point, IA 52656, before March 30, 1996.

NAME: \_\_\_\_\_ PHONE NO.: (\_\_\_\_) \_\_\_\_\_

ADDRESS: \_\_\_\_\_ CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

\_\_\_\_ Yes, I will provide a display for EXPO. It will require \_\_\_\_\_ linear feet of table space - 8 ft. maximum display.

\_\_\_\_ I request \_\_\_\_\_ (number) of 6 ft. tables for selling and swapping. Cost is \$15.00 per table. 2 tables/person/membership maximum initially; Maximum limit of 4/family or group in all (assigned only in special need cases or if extras are available).

Check enclosed: \$\_\_\_\_\_ (Only send payment for up to two tables per person; any extras assigned through request will be paid for at time of notification or at EXPO.)

\_\_\_\_ Number of chairs I will need. \_\_\_\_\_

\_\_\_\_ Will you help run EXPO?  
Front desk--Fri \_\_\_\_\_ a.m. \_\_\_\_\_ p.m. \_\_\_\_\_ evening Sat \_\_\_\_\_ a.m. \_\_\_\_\_ p.m.

Sun \_\_\_\_\_ a.m. \_\_\_\_\_ p.m.

Elevator--Friday: 9-10, 10-11, 11-12, 12-1, 1-2, 2-3,  
Sunday: 11-12, 12-1, 1-2, 2-3

**NO ONE EXCEPT THE GUARD IS ALLOWED ON THE FLOOR FOR ANY REASON AFTER HOURS!**

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 \$20.00 per household. Institution or Library fee is \$25.00. Overseas fee is \$20.00 with Surface Mailing of DIGESTS OR \$30.00 with Air Mailing of DIGESTS. (Payments other than those stated will be pro-rated.)

MAPS meetings are held on the 2nd Saturday of October, November, January, and March and at EXPO in April. A picnic is held during the summer. October through March meetings are scheduled for 1 p.m. in Trowbridge Hall, University of Iowa, Iowa City, Iowa. One annual International Fossil Exposition is held in April.

MAPS official publication, MAPS DIGEST, is published 9 months of the year--October through April, May/June, July/August/September.

President: Marvin Houg, 3330 44th St. NE, Cedar Rapids, IA 52402  
 1st Vice President: Dale Stout, 2237 Meadowbrook Dr. SW, Cedar Rapids, IA 52403  
 2nd Vice President: Karl Stuekerjuergen, 1503 265th Avenue, West Point, IA 52656-9029  
 Secretary: Alberta Cray, 1125 J Avenue NW, Cedar Rapids, IA 52405  
 Treasurer: Sharon Sonnleitner, 4800 Sunset Dr. SW, Cedar Rapids, IA 52404  
 Membership: Dale Stout, 2237 Meadowbrook Dr. SW, Cedar Rapids, IA 52403

Dated Material - Meeting Notice

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

MID-AMERICA PALEONTOLOGY SOCIETY

CYATHOCRINITES



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