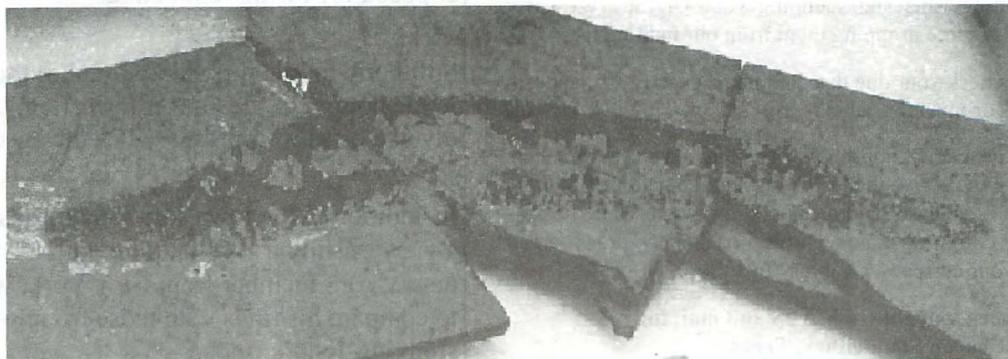
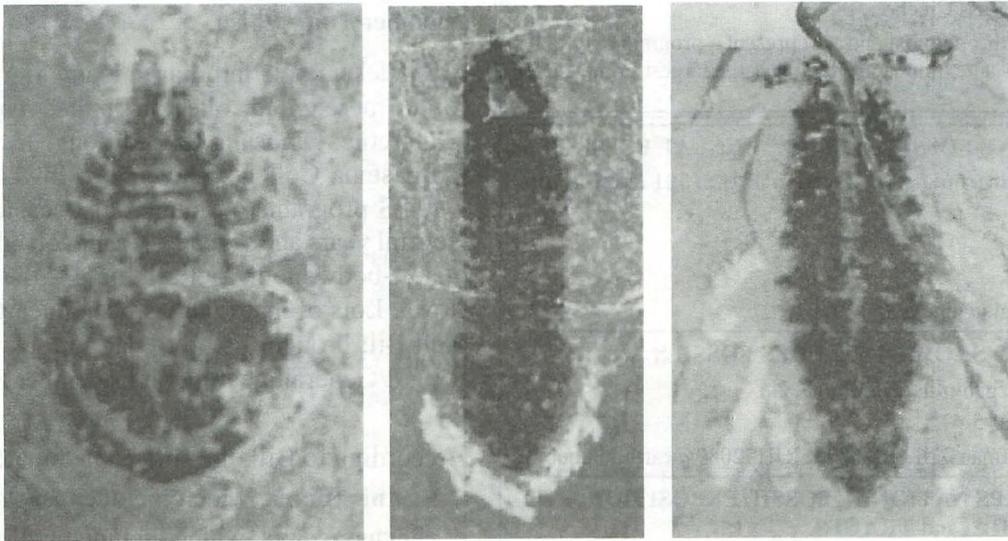


M.A.P.S *Digest*

Official Publication of
Mid-America Paleontology Society

Volume 24, No 9
December 2001



MARK YOUR CALENDARS

Jan 12 MAPS MEETING

Trowbridge Hall, University of Iowa, 123 N. Capital St., Iowa City, IA. Main Lecture Room, #125.

1:00 Board and General meeting

2:00 Program—Chris Brochu

Chris is the new vertebrate man at Iowa. He was involved with the preparation of Sue at the Field Museum but he will present a program on his main interest - before and after Sue - crocodiles.

Feb 9 MAPS BOARD AND GENERAL MEETING & PROGRAM

Trowbridge Hall, University of Iowa, 123 N. Capital St., Iowa City, IA. Main Lecture Room, #125.

1:00 Board and General meeting

2:00 Program—Russ Ciochon

Russ is a paleoanthropologist and will present a program on Gigantopithecus - an extinct ape which was the largest primate ever to roam the earth.

Mar 9-10 TAMPA BAY FOSSIL CLUB 15TH ANNUAL FOSSILFEST

Florida State Fairgrounds, intersection of U.S. 301 and I-4, just east of Tampa

Sat. 9-6

Sun. 9-4

tampabayfossilclub@juno.com

Mar 24-25 BUFFALO SHOW—INCLUDES FOSSILS

Erie County Fairgrounds, Hamburg, NY

Sat. 10-7; Sun. 10-5

Contact Bob Hoffman 716-681-6875; RJH52089@earthlink.net

Apr 12-14, 2002 MAPS NATIONAL FOSSIL EXPOSITION XXIV

- TRACKS, TRAILS, and TRACES

Western Illinois University, Macomb, IL

Fri., Apr. 12 8 am - 5 pm Keynote Speaker @ 7:30

Sat., Apr. 13 8 am - 5 pm Meeting & Live Auction @ 7:00

Sun., Apr. 14 8 am - 12 noon

Information will be included in the December issue.

991/12 DUES ARE DUE

Are your dues due? You can tell by checking your mailing label. It reflects dues received by December 15. The top line gives the expiration date in the form of "99year" followed by month—991/12 means 2001/December. 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 and stamping your Digest. We carry overdues for two issues before dropping them from our mailing list.

Please include on your check 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 check payable to MAPS and mail to:
Sharon Sonnleitner, Treas.
4800 Sunset Dr. SW
Cedar Rapids, IA 52404

ABOUT THE COVER

Photos (by Sharon Sonnleitner) Show Specimens Near Actual Size

Pictured on this month's cover are soft-bodied animals found in the very top of the Scotch Grove formation of the Upper Silurian in Eastern Iowa. Specimens pictured are (from top left): horseshoe crab, phyllocarid-like animal, remipede-like(?) animal, phyllocarid, worm-like arthropod. The specimens were found in a working quarry over a period of five years by Bill Hickerson of Black Hawk College in Moline, Illinois, Randy Wheeler, and MAPS member Tom Walsh.

Bill Hickerson is familiar to many MAPS members as one of the more gifted collectors in the area. He participated in Antarctic Dinosaur expeditions by his alma mater, Augustana College, Davenport, Iowa. He has presented MAPS programs on numerous occasions—including one several years ago when he was involved in the discovery of a soft-body site in—of all things—the Silurian of Eastern Iowa. Lots of material has been unearthed since that time and Bill brought us up to date on his work at our MAPS Board/General meeting on December 8.

According to Bill, the soft-bodied material includes:

uniranians, which include insects and millepedes

crustaceans, which include phyllocarids, remipedes, isopods, ostracods

trilobites

chelcerates, which include spiders, horseshoe crabs

unknowns

The animals found at this site did not live together where they were found. Instead, they were washed off to an anoxic environment, and many are broken up. The fauna, is dominated by the *Dalmanites* trilobite and includes fish. Phyllocarids (up to three feet long) are the most common soft-bodied fossils found there. At present, no material is exposed for further collecting.

Soft body fossils were also found in the Anamosa member in the bottom of the Gower formation, but they were not as diverse or as well preserved as the specimens pictured.

In addition to the Iowa soft-body fossils, we were treated to a view of similar fossils found in Ontario by John Spina, a new MAPS member from New York, who drove ten hours to compare his finds with those from Iowa. A researcher is studying John's finds.

**PROCEEDINGS OF THE BOARD
DECEMBER 8, 2001**

Board Members Present: Karl Stuekerjuergen, Dale Stout, Marv Houg, Gil Norris, Tom & Walsh, Alberta Cray, Blane Phillips, Sharon Sonnleitner

The following items were acted on or discussed:

EXPO: Karen Chin declined as Expo keynote speaker because of a very busy spring-semester schedule. Marv will ask Mary Droser, Anthony Martin and S. George Pembleton (in that order) to be the keynote speaker. Western Illinois University has made no changes in security yet, but will inform us of any that are forthcoming. We have heard nothing from the Field Museum regarding an exhibit at this year's Expo. Dates for the 2003 show are March 28-30. (No dates were open in April.) Gil will chair the 2003 show with Karl as co-chair.

DAVID JONES FOUNDATION GRANT: Karl noted a request by Allan Goldstein that some of the grant be used to sponsor student programs at the Falls of the Ohio. It was also noted John Catalani inquired about sponsorship of a publication. Action tabled.

ELECTION: The following slate of officers was elected on a motion to instruct the secretary to cast a unanimous ballot:

- President: Marvin Houg
- 1st Vice President: Dale Stout
- 2nd Vice President: Gil Norris
- Secretary: Alberta Cray
- Treasurer: Sharon Sonnleitner,
- Director (thru 2004): Blane Phillips

Officers continuing on the board are:

- Dir: Tom Walsh (thru 2002), Allyn Adams (thru 2003)
- Immed. Past President: Karl Stuekerjuergen

EXPO DIGEST: **Charlie Oldham** is editing this year's Expo *Digest on Tracks, Trails, and Traces*. If you can supply an article, contact Charlie:

Charles Oldham
7405 West Hwy 22
Crestwood, KY 40014
502-241-8755

**SEND YOUR CHANGES
FOR THE 2002 MAPS DIRECTORY**

We will publish a complete Directory in 2002. Please send all your changes of address, phone numbers, area codes, blurbs, etc., to the editor by **March 1**. Any changes you have sent previously with dues, etc., are recorded and do not need to be resent. The new Directory will come out at Expo.

Send updates to:

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

MACOMB ATTRACTIONS

For those of you visiting Macomb for Expo, the following is a list of area attractions:

- **Blandin House Museum.** 215 S. Chestnut, Blandinsville, IL 61420. 309-652-3673/3111
- **Haeger Pottery**—home to world famous line of art pottery and lamp bases. 204 W. Jefferson, Macomb. 309-837-1914. Thurs-Sat 11-5, Sun 1-4.
- **Historic Barn Tour**—4 self-guided tours. McDonough County. 309-833-1315.
- **Museum of Geology.** Free tours during open hours and by invitation from Expo at announced times. Western Illinois U., Tillman Hall. 309-298-1368, RE-johnson2@wiu.edu. Mon-Fri noon-4:30.
- **The Old Bailey House**—a beautiful Eastlake style Victorian structure, built in 1887. 100 S. Campbell, Macomb. 309-833-1727. Weekdays 9-5.
- **University Art Gallery/Museum.** 309-298-1587. Mon-Fri 9-4.
- **Western Illinois Museum**—includes a dentist office, early 1900s kitchen, Civil War artifacts and regional memorabilia. 309-833-1315.
- **Argyle Lake State Park**—fisherman's delight; hiking, camping, boating, canoe/boat rentals. RR #1, Colchester, IL 62326. 309-776-3422.
- **Lakeview Nature Center**—home to deer, turkey, fox, beaver, geese, ducks, coyote, etc. Trails. 10050 N. 1500th Rd., Macomb. 309-833-4562/5052
- **Spring Lake Park & Campground**—fishing, camping, boat/canoe/paddle boat rental. 595 Spring Lake Rd. Macomb. 309-833-2052
- **5 Golf Courses** in area.

FOSSIL PREPARATION

by Marc Behrendt

previously published in *Fossil News* 12/99

You have been collecting really great fossils all day, you get home, set the box on a chair and spread your treasure onto the kitchen table to look at it closer. It's pretty neat stuff, but wouldn't it look better if all that mud and rock still stuck to it were gone?



Author with Field Find

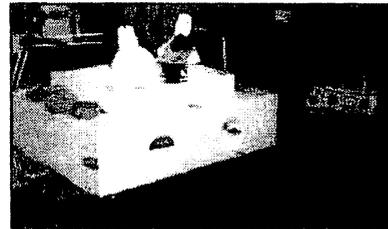
Fossil preparation or cleaning can be done in the home or in a fancy lab. Sometimes all it takes is a toothbrush and water. If the fossil is sturdy, like coral and many brachiopods, this method will remove all the mud and loose matrix. However, if your fossil has any cracks in it, if it is fragile, or if it sits on soft shale, do not try to brush it off with water. Fossils like

trilobites, bones and fragile brachiopods will dissolve or fragment and leave you with an empty rock and memories. To make something fragile look better, you need a different method to clean your specimen.

If you have access to the right equipment, you are in good shape. Or you could send your specimen to a fossil preparation lab. Let's assume you have a complete trilobite and would like it cleaned. Part of it is buried in the rock and part is exposed but covered with a thin layer of shale.

The first step is to stabilize the specimen. When the rock dried after it was dug up, all the water evaporated, leaving countless microscopic cracks both in the rock and in the fossil. Apply super-thin super glue under a microscope by dipping the tip of a pin into a drop, then touch the pinpoint to a crack, which sucks up the glue instantly. The glue hardens, filling in the crack and holding everything together. If too much glue is used, such as with a single regular drop, then the glue will have to be cleaned away before the matrix can be cleaned from the trilobite.

Now the fun begins! To expose the buried portion of the trilobite, pneumatic hammers will be used. These are just like the loud jackhammers road workers use to dig holes through the roads, except fossil preparing hammers are so small they must be used under a microscope. Ever so carefully the hammer's pounding chips away tiny fragments of the matrix hiding the trilobite. Usually the matrix touching the trilobite shell pops right off after most of the upper matrix is removed. Great care is taken not to touch the trilobite with the hammer, because a hole in the fossil is not pretty.



Home Fossil Prep Lab

Before micro-airhammers were used, fossils were exposed using small steel picks like dentists use (this process is still used in many labs today). The method works very

well, as you can see in any older museum collection, but it takes a long, long time to accomplish what an airhammer can do in a short time!

OK, the trilobite has been totally exposed, but is still covered by a thin layer of shale. It is time to pull out the microsandrblaster. Also known as air abrasive machines, these instruments, using high air pressure, shoot a tiny regulated amount of powder through a hose and nozzle onto the fossil, eroding the soft rock away while leaving the harder trilobite's shell intact.

Depending on the type of rock and the hardness of the fossil, the air pressure, the amount and type of powder, and the size of the nozzle can be changed to meet the situation. Imagine this — you have a big rock and you want to break it in half. You first choose your hammer. Will it be small and delicate or big and heavy? Should it be made of rubber or metal? Then, do you swing it really hard, or gently tap the rock? Too much hammer or too much swing and your rock is dust. Too little hammer or tiny taps may crack the rock

in a day or two. The right hammer with the right swing will cause the right impact to break the rock in a controlled manner in a short time.

The same concept is used with the air abrasive machine. With experience or careful experimentation, the air pressure and powder flow are adjusted to remove the matrix from the fossil without "burning" the trilobite's shell away with the rock. All the work is done under a microscope under the watchful eye of the preparator, who is alert for new or previously unnoticed cracks in the shell that will need to be stabilized.

Although it is important to clean the entire trilobite carefully, the eyes need special attention. Many kinds of trilobites have the lenses still in the eyes, and these are very fragile. With delicate and precise micro-sandblasting, the entire eye is cleaned so each lens is

perfectly exposed without being damaged!



Cleaned *Flexicalymene meeki*

Finally, the rock itself is spruced up. All the chisel marks from the hammers are ground away using either a combination of airhammer and air abrasive, or with a grinder like a dremel tool. The matrix is shaped into the way it best displays the trilobite.

Occasionally, new fossils are discovered under the matrix during this step. These are cleaned up and make nice surprise additions for the piece.

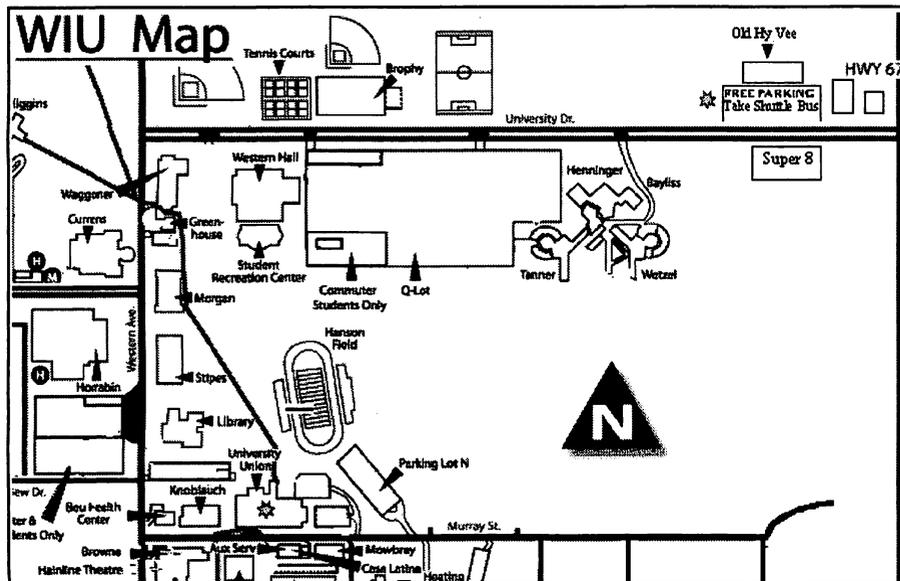
When it's all done, sit back and admire your trilobite. It's no longer grey and covered with rock — it is a beautiful black or brown color, looking like it will crawl off the rock any moment.

There are many other techniques available for preparing fossils. Several books are available which describe these different methods. Three of the many are:

Paleotechniques edited by Rodney M. Feldmann, Ralph E. Chapman, and Joseph Hannibal. Published by the Paleontological Society at the Department of Geological Sciences, The University of Tennessee, Knoxville, TN 37996.

Handbook of Paleo-preparation Techniques by Howard H. Converse Jr. Published by Florida Museum of Natural History, University of Florida, Gainesville, FL 32611

Fossil Preparation Manual by Tom Whiteley and Gerry Kloc. Published by the authors, 1995.



EXPO PARKING

Parking at Expo on Friday is very tight. Also, all parking close to the Union is at meters, some of which have four-hour limits before they need to be fed again.

One solution to the problem is to unload at the Union and then park at the Old Hy Vee across from the Super 8 and take a shuttle bus. The green route runs past the lot and down Western Ave. every 10 minutes from 7:30 a.m. - 4 p.m. and every 20 minutes from 4-5 on Friday. Parking there is free.

ADVERTISING SECTION

Ads are \$5.00 per inch. 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 can be printed in different sizes of type to fit a 1" space.

2002 CENTRAL ILLINOIS FOSSIL SHOW

Macomb Inn (Days Inn)
1400 N. LaFayette, Macomb, Illinois

HOURS: Wed., April 10 10:00 p.m. until late evening
Thurs., April 11 9:00 a.m. until late evening
Fri. & Sat., April 12-13 . . . By appointment during
MAPS show times & eves.

The intent of this show is to enhance MAPS Expo and to allow dealers who need it more selling space.

For show info, contact: **Dan Damrow 715-457-6634**
Chuck Warren 517-439-5632

To reserve a selling room contact Macomb Inn at: 309-833-5511 (Tiffany)

FOSSIL PREPARATION

- Museum quality preparations
- Low hourly rates, fast return

References, Rates, Questions:

billkephart@juno.com
Bill Kephart (217) 403-0270

Over 200 Museum Replica Fossils

www.PaleoClones.com



1-800-822-6788

NEWS | MUSEUMS | LINKS | CLUBS

**PREHISTORIC
PLANET.COM**

The World
Of Fossils
And
Natural
History
Online™

SUPER CROC

by Ed Metrin
from *Bone Valley Fossil News*, 12/01

In the December issue of *The National Geographic*, there is an article by Paul Sereno about a giant crocodile he and his team found. The crocodile was discovered in Niger at a place called Gadoufaoua. The richest dinosaur beds in Africa are located in this area.

**Fossil Collector's
Guidebook to the North Sulphur River**

Published by **The-Dallas Paleontological Society**

The definitive source on the collection and identification of fossils of the North Sulphur River in Northeast Texas. This hardbound book covers Pleistocene and Cretaceous vertebrate and invertebrate fossils with 80 species illustrated in color. See our web site at www.dallaspaleo.org for more info and an order form, or send \$28.95 per book (payable to DPS which includes shipping) to Rick Kaiser: Dept m, 6109 Scenic Dr., Rowlett, TX 75104

Professional Fossil Preparation

Quality work at reasonable rates on all fossils
microscopic to SAUROPODIAN
Specialize in Vertebrates



J-P Cavigelli

4318 Grays Gable Rd.
Laramie, WY 82072
(307) 742-4651
jpc@westernpaleo.com

WESTERN PALEO SAFARIS

Fossil hunting vacations in the American West
in search of:

- | | |
|----------------------------|-------------|
| Dinosaur bones | Fish |
| Mammal teeth and bones | Insects |
| Crocodile and turtle bones | Leaves |
| Ammonites | ...and more |



www.westernpaleo.com

Toll-free
1-888-875-2233
use PIN 7737

This giant crocodile, *Sarcosuchus imperator*, lived in Africa's rivers during the Cretaceous. Several skulls along with scutes and bones were discovered at the site. The most complete skull is almost six feet long. It is estimated that this crocodile was forty feet long and could have weighed as much as ten tons.

There were at least five species of crocodiles inhabiting this part of Africa during the Cretaceous. They range in size from a small dwarf croc to the monstrous *Sarcosuchus*.

There was a *National Geographic* special on TV about this find. The program was really interesting. Not only did it show the fossil dig but also the study of modern crocodiles. They studied modern crocodiles to help estimate the size and possible habits of the *Sarcosuchus*.

It seems that every other day you read or hear about a new fossil discovery. Each new find adds to our knowledge about the diversity of life that once existed on earth. This is what I find so fascinating about our hobby.

NATIONAL FOSSIL EXPOSITION XXIV—2002

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. - 5:00 p.m.
 Saturday, April 13—8:00 a.m. - 5:00 p.m.
 Sunday, April 14—8:00 a.m. - 12:00 p.m.

(We encourage exhibitors to stay until noon on Sunday, but many leave early)

TRANSPORTATION There are 2 highways leading into Macomb—IL 136, an E-W route, and IL 67, a N-S route. There is **no plane service to Macomb** at this time, but you can fly into **Moline, IL, St. Louis, MO, or Peoria, IL**, and rent a car and drive to Macomb.

LODGING **Macomb area code—309; Macomb zip code—61455**

★**MOTELS** We have been informed that most Macomb motels have different prices for weekends than for weekdays, so check prices if you are concerned about costs.

Motels are listed according to what has generally been the highest-priced one to the lowest-priced one except those marked*. It has been reported that some of the hotels raise the price for EXPO weekend, so you might want to check prices.

Ameri Host	1646 N. Lafayette	837-2220
Holiday Inn Express	1655 Jackson St.	816-6700
Macomb Inn (Days Inn)	1400 N. Lafayette	833-5511
Super 8	313 University Drive	836-8888
Pineapple Inn	204 Jefferson Street	837-1914
Travel Inn	Hwy 136 West	833-4521
Time Out Motel	Hwy 67 North	837-4838
Star Motel	Hwys 67 S and 136 E	837-4817
	1507 E. Jackson Rd.	
Brockway House (Bed & Bkfst)	331 E. Carrol	837-2175*

If you plan to stay in a motel, we urge you to make your reservations early.
 Local motels are generally filled during the weekends.

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

★**MOBILE HOME PARKING** is offered at **TILL JORDAN MEADOW MOBILE PARK** by calling **309-837-2883**, for those who wish utility hook-up.

★**UNION**—Contact **Gilbert Norris (309-786-6505; gilnorris@home.com)**, 2623 34th Ave. Ct., Rock Island, IL 61201 to see if rooms are available. (*There are a limited number.*) Rooms are to be paid directly to the University Union when you check in or out.

These rooms must be rented for both Friday & Saturday. You must request rooms early. You may wish to be on standby.

★**OLSON HALL**—Dormitory-style housing is available at the University in Olson Hall—Dorm rooms with community bath on floor. **CONTACT THE UNIVERSITY directly at 309-298-3500 for reservations.**

IN ALL CASES, IDENTIFY WITH MAPS

PARKING For those staying in the Union, parking will be east of the Union with room permits. For others, get visitor permits from Public Safety. Park in specified lots. After 4:00 p.m. Friday, ample parking is available. Before 5:00 p.m., patience is needed. See page 4 for parking option.

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 wanting a table is requested to make advance registration by March 1, 2002. Mark your calendars now so you don't forget! Registration forms are found on page 8 in this Digest for your requests for tables, etc. Send these forms and your check made payable to MAPS to: Marc Behrendt, 421 S. Columbus St., Somerset OH 43783. **Admission to the show is free.** Please send dues to Treasurer before EXPO—It is a lot of extra work for us to accept them at EXPO. If you pay at EXPO, be sure your dues payment is recorded before you leave the desk.

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/membership initially.** Over 2 tables wanted? You may request extra tables, and if they are available, you will be notified after March 1st (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. Decisions will be made as soon as possible, with all decisions made by March 15. Persons with MAPS memberships will have first chance at all tables requested before March 1. **(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 artifacts, meteorites, etc., are not permitted! AISLES MUST BE KEPT CLEAR AT ALL TIMES.

DISPLAYS Displays will be accommodated as space allows.

ALL RESERVATIONS WILL BE ACKNOWLEDGED

OTHER ACTIVITIES TRACKS, TRAILS AND TRACES will be this year's theme. A Keynote Speaker will present a program on the theme Friday evening. A live auction will follow a short business meeting and awards presentation on Saturday evening. Silent auctions will be held Friday afternoon and Saturday. Proceeds from the auctions support a Paleo Society scholarship, the PRI and the Strimple fund. Each dealer is encouraged to contribute a specimen/specimens equal to or greater than the cost of the tables he/she has rented to assure early 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 the specimen.

Show Chairman	Marvin Houg, 3330 44 th St. NE, Cedar Rapids, IA 52404	(319) 395-0577
Co-Chairman	Gil Norris, 2623 34 th Avenue Court, Rock Island, IL 61201	(309) 786-6505
Table Reservations	Marc Behrendt, 421 S. Columbus St., Somerset OH 43783	(740) 743-2818
Auction	H. Paul Rechten, 7405 Shields, Harvard, IL 60035	(815) 943-4178
Publicity	Tom Witherspoon, Sr., 6611 Miller Road, Dearborn, MI 48126	(313) 582-3139
EXPO DIGEST editor	Charles Oldham, 7405 West Hwy. 22, Crestwood, KY 40041	(502) 241-8755

MAPS Web Site <http://midamericapaleo.tripod.com>

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: \$20.00 per household covers one year's issues of DIGESTS. For new members and those who renew more than 3 issues past their due date, the year begins with the first available issue. 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 over the 9 yearly issues.)

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.

The MAPS official publication, MAPS DIGEST, is published 9 months of the year—October through April, May/June, and July/August/September. View MAPS web page at <http://midamericapaleo.tripod.com/>

- President: Karl Stuekerjuergen, 1503 265th Ave., West Point, IA 52656-9029
- 1st Vice President: Dale Stout, 2237 Meadowbrook Dr. SE, Cedar Rapids, IA 52403
- 2nd Vice President: MarvinHoug, 3330 44th St. NE, Cedar Rapids, IA 52402
- Secretary: Alberta Cray, 1125 J Avenue NW, Cedar Rapids, IA 52405
- Treasurer (Send Dues To): SharonSonnleitner, 4800 Sunset Dr. SW, Cedar Rapids, IA 52404
- Membership: Dale Stout, 2237 Meadowbrook Dr. SE, Cedar Rapids, IA 52403
- Directors: BlanePhillips (01), Tom Walsh (02), Allyn Adams (03)

Dated Material - Meeting Notice

CYATHOCRINITES



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

FIRST CLASS MAIL