Top View

Paracometocrinus richfieldensis

on

Cusacrinus daphne

Bottom View

of

Paracometocrinus richfieldensis

on

Cusacrinus daphne

ONE OF A KIND
**PLEASE TAKE NOTE**

A brief explanation of the date on the bottom of the address labels of your *Digest*.

This date indicates the month and year through which your dues have been paid. If you have just paid your dues, the communication between the Treasurer and the Computer Resource may not be complete. Check next month to see that all is cleared.

**NOW YOUR DUES**

The Treasurer, Marv Houg, has requested that you please send money for dues BEFORE EXPO.

Because things are so hectic at EXPO it would surely make things much simpler for him if he had your dues by then.

Many of you wait to pay your dues at EXPO but it makes the process easier if you would please send your checks to:

Marvin Houg, Treasurer
3330 - 44th St. NE
Cedar Rapids, IA 52402

before the EXPO. Many Thank yous!

**GOOD THINGS ARE IN STORE AT EXPO IX!!**

Have you made your reservations for your tables? Did you find a place to sleep.

The only all night spot in Macomb is the corner room--floor 2. Doesn't seem to dull the shrewd operations on the floor next morning.

Better diet--they have gooooood ice cream.

**COVER:** Crinoid found and illustrated by Robert Guenther, 149 East Main Street, Shelby, OH 44875

On a nice sunny mid summer day in 1983, I headed my van towards Fredricksburg, Ohio, to see if I could find some Pennsylvanian period shark teeth, in a nearby coal and limestone strip mine.
When I arrived at the office of the strip mine, I found out that there had been a breakdown of machinery, and the Superintendent had gone to Cleveland for repair parts. I didn't have any idea when he would return, so I headed the van toward a small location in Ashland County, where a shale bank about 150 ft. long by 50 ft. high, along a small stream, usually produced a couple of good Mississippian period fossils.

When I arrived at the office of the strip mine, I found out that there had been a breakdown of machinery, and the Superintendent had gone to Cleveland for repair parts. I didn't have any idea when he would return, so I headed the van toward a small location in Ashland County, where a shale bank about 150 ft. long by 50 ft. high, along a small stream, usually produced a couple of good Mississippian period fossils.

I parked the van and walked through the woods to the shale bank, where I noticed the end of a 3 inch long clam sticking out of the shale, about eye level, and with my pick worked it out.

I looked to the left along the shale bank, and could see something sticking out of the shale about 20 ft away that looked interesting, so I moved downstream to check it out.

When I saw what it was, I got so excited, I slipped on the slippery moss covered shale at the stream bank, and almost fell into the creek.

Sticking out of the shale, was the bottom of a crinoid crown about 2 inches wide by about 1½ inches thick, and all I could see was a bunch of well preserved arms disappearing into the shale bank, so I put my rock pick back to work, loosening the shale around it, and soon had a complete crinoid crown lying in my hands.

There was quite a bit of shale sticking around the center of the crown, so I sent the fossil to my friend Bob Howell, to have it cleaned. I was quite elated when I received a letter from him explaining that in removing the shale, he had found another small crinoid, of another genus, complete with a portion of the stem, lying across the top of the large crinoid crown.

Bob Howell identified the large crinoid crown as, Actinocrinus daphne which had later been renamed Cusacrinus daphne (Bowsher) 1955, and the smaller crinoid as Pachylocrinus which could probably be a new species.

Having already donated over twenty other Ohio crinoid specimens to Augustana College at Rock Island, Illinois, I decided that this beautiful ONE OF A KIND crinoid crown should go in their display case to top off the Ohio specimens. At the 1985 M.A.P.S. EXPO, I gave it to Dick Johannesen to add to the fossil display case at Fryxell Geology Museum, where you can now see it.

I did a little bit of drawing when I was a kid, so didn't know if I could turn out something that would be of some use for a cover.

Hope this finds you in good health, and enjoying this hobby as much as I do, for there are no drugs on the market that can make a person feel as good, or give me a high, like field trip that turns up specimens like I have just described.

(Ed. comment, and then, several months later the mailman brought another letter. This letter, dated January 28, 1987..)

This past week I received a letter from Dick Johannesen, thanking me for donating the crinoid specimen to Augustana College Fryxell Museum. They had neither crinoid in their collection. He advised me that the small crinoid's name has been changed from Pachylocrinus, to Paracometocrinus richfieldensis, so I have enclosed another copy with the correct names, but the names will have to be changed in the sheet containing the information of the specimen.

(Ed. comment. Many thanks, Bob, for a beautiful cover, for the donation to Augustana, every time there is a Board Meeting, we can see it, and for your loyalty to MAPS. See you at EXPO. You meet special people at MAPS.)

Thanks to Jim and Sylvia Konecny, 3036 Geronimo Road, Prescott, AS 86301

A nest and eggs of a Protoceratops and a diorama showing how the animal might have lived are the heart of a new display dedicated to memory of Donald Good, an earth science teacher, former WIU student, and a long time supporter of the Museum of Geology. Donations to the museum by friends and family made the display possible; it was designed and constructed by Robert Johnson, curator, in cooperation with Dr. Jack Bailey.
ADVERTISING SECTION

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Air Europe add $3.00

*****

THE GENESEE VALLEY FOSSIL CLUB has published a second book, a 200 page compendium of the Club Newsletters from 1977 - 1984. The book contains informative articles, collecting localities, identification guides, and many other items indexed and cross-referenced. Send requests to:

Gary Rakes
P.O Box 26800
Rochester, NY 14626

Include $9.50 per book plus $1.00 s&H. Orders of 10 or more: $7.50 each + $1.00 S&H

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Thanks to N. Gary Lany, Professor
Indiana University
Department of Geology
1005 East Tenth Street
Bloomington, Indiana  47405

The annual monographs of the Palaeontolographical Society for 1986 have been issued recently. Three volumes were produced this year. They are:


No. 569. Jones, C. R. Ordovician beyrochiocene Ostracods from Encland and Wales. 20 pds.


Members of the Society receive copies of the monographs published each year for a subscription rate of 17 pds. or $30.00. Institutional rates are $50 per year. Back issues of many of the monographs are available, as is a price list from:

Academic Press Ltd, High Street, Footscray, Sidcup, Kent DA14 5HP ENGLAND

Those interested in joining the society should contact:

Mr. S. P. Tunnicliff, Secretary, Palaeontographical Society
c/o British Geological Survey
Keyworth
Nottingham NG12 5GG
ENGLAND

THE HENRYHOUSE AND HARAGAN FORMATIONS OF OKLAHOMA
by John H. Hunter II
(Dyes AFD, TX)

For many years, the Henryhouse and overlying Haragan Formations of south central Oklahoma have been famous for their superbly preserved fossils. These formations are lumped with five others to comprise the Hunton Group. However, the Henryhouse and Haragan exhibit a curious relationship. The Henryhouse Formation is believed to be of Ludlovian (early Late Silurian) age, but even today there is still some debate on this. The Haragan Formation, however, has been confidently assigned a Helderbergian (early Devonian) age for many years. There appears to be a substantial temporal unconformity between the two. The Henryhouse strata were uplifted from the sea (or sea level fell) and exposed to erosion before being resubmerged and covered by Haragan strata. The evidence for this is found at many localities because erosion locally removed not only all the Henryhouse but also some of the underlying strata. Thus we find the Haragan in contact with formations older than the Henryhouse. In some places so much rock was removed that the Haragan is lying on top of Late Ordovician strata! Actually, many of the formations in the Hunton Group exhibit unconformities. But the Henryhouse-Haragan contact is a special case. These two formations are so closely related in lithologic character that they are indistinguishable. There are a number of sites where the contact between the two is exposed, such as in shallow creek beds or in cliff faces. However, it is impossible to discern the contact even when you are looking directly at it, making this a perfect example of a paraconformity. There is no consistent change in rock texture, color, mineral content, or bedding angle, so both must have been laid
down under nearly identical conditions.* In fact, many earlier geologists had lumped the two into one formation. But they are quite distinct in one comparison—fossils. The Henryhouse contains a relative abundance of the trilobite Diacalymene clavícula, while the overlying Haragan to date has given up only two pygidia of this species (and it is possible that these represent surface contamination). Otherwise there is no trilobite in the Haragan that even resembles this ubiquitous genus. The Haragan, on the other hand, contains a great abundance of Paciphacops trilobites.

Paciphacops has never been found in the Henryhouse, but a very similar trilobite, Ananaaspis guttulus appears sparingly. (When I speak of "abundance" I'm referring mostly to the abundance of trilobite parts. Complete and excellently preserved trilobites are not common in these formations.) The two formations contain quite distinct trilobite genera, with three rare exceptions. The first is the presence of Diacalymene in the Haragan. A couple of pygidia were found many years ago by an unknown collector. The second and third I can verify. In situ in the Henryhouse I have found delicate, excellently preserved free cheeks of Leonaspis and a Dicranurus cranidium. As far as I know, only one other occurrence of Leonaspis is noted from this formation, and it was also a free cheek. Dicranurus, to my knowledge, has never been reported from the Henryhouse. The same faunal distinctness is shown with all other animal groups, such as brachiopods, crinoids, etc. One may wonder if this faunal distinctness was caused by environmental changes rather than a withdrawal of the sea and simply represents different faunal zones within the same formation. While this idea would explain the identical lithologies, it cannot explain why there are localities where Haragan beds are present but Henryhouse beds missing. With this fact in mind, it would appear that the Henryhouse was eroded for a considerable time before the Haragan beds were deposited, but the uncertainty of the Henryhouse's exact age does not make the mystery any easier to solve. Also, it is remarkable how indistinct the Henryhouse-Haragan contact really is. I have visited places where this boundary is located in the face of a cliff. At these sites the contact has been narrowed down to somewhere in the middle of a 12-foot thick massive bed. The break must be located within a two or three foot band in the middle of this bed, as indicated by the presence of a few fossils, but close examination reveals absolutely no lithological or physical changes. It's like looking for an erosional gap in a solid block of marble. And quite a gap it is— somewhere around five million years worth.

Whatever the complexities of the local stratigraphy, there can be no denying that the two formations have yielded some beautiful trilobites. The Henryhouse trilobites are generally uncommon. These include Diacalymene clavícula, Fragiscutum globalis, Ananaaspis guttulus, Proetus foculus, Dalmanites rutellum, Anasobella asper, and Cheirurus infensus. Haragan trilobites include Paciphacops Raymond, Paciphacops logani, Paciphacops invius, Cordania falcata, Leonaspis williamsi, Dicranurus elegantus, Otarion axitiosum, Huntonia lingulifer, Huntonia huntonensis, Reedops deckeri, and Ceratonurus.

In the last couple of years many of the best collecting localities have either been leased or closed to collectors. There are still a few good sites left, most notably White Mound. Other exposures occur along I-35 where the highway cuts through the Arbuckle Mountains. The road cuts through the Arbuckle anticline and exposes many other notable formations, including the Bromide and Viola. At the southern end of the anticline, the Haragan and Henryhouse are exposed in a small hill just west of the highway and near the south end of the Arbuckle Mountains. The northern exposure is in a large hill just west of the junction of I-35 and State Highway 7.

Regardless of whether one is fascinated with the oddball stratigraphy or, more likely the beautiful fossils, the Haragan and Henryhouse Formations have made the Arbuckle Mountains internationally known.

(Many thanks, John H. Hunter II. The generosity of MAPS members never ceases to amaze!)
Please UPDATE Your Membership Directory —

SABO, DONALD  176 Woodfield Green S.W., Calgary, Alberta CANADA T2W 3T9
BALOGH, MIKE  497 Rcg PSC Box 875, APO NY 09633-6475  Also list WEST GERMANY, please.
CASSEL DAVID  Mason.  Major interest crinoids and all echinoderms.  Also likes cephalopods, Arthropods and anything nice.  Have echinoids and other things to trade.
KOSS joseph & Florence  Listed as Ross, change to Koss 26 E 700 North, Valparaiso, IN 46383
OLSON Michael W.  No initial in former listing.  229 Andover, Springfield, IL 62704

Please ADD The Following New Members to Your Directory—WELCOME! SEE YOU AT EXPO.

ELIZABETH ASKEW  607 Nutswamp Road
Middletown, NJ 07748

JOHNATHAN CAMPBELL  HC9, Box 267
Bismarck, ND 58501
701-223-6754

RICHARD P CASTOR  Glory "B" Ranch
Stignatius, MT 59805
406-745-2475

JIM DAVIS  Box 442
Viburnum, MO 65566
314-244-5238

MIKE DAVIS  2520 Crestmoor Dr.
San Bruno, CA 94066
415-873-4443

RON DOBOVAN  2130 Fulmar CT
Ann Arbor, MI 48103

KEITH DOPSON  604 South Cottonwood
Richardson, TX 75080
614-690-9789

KATHARINE EVANS  R1
Sigle, IL 62462
217-844-2143

JANICE HALL  Putnam Museum
1717 West 12th St
Davenport, IA 52804
319-324-1933

Son, Riley, is interested in dinosaurs.

High School Student.  Will trade.  Interested in Vertebrates (Mammal).  Late Cretaceous Cephalopods (You listening Dennis) Has Hoplostephanites, mammal Coprolites, Brachiopods, (Mucrospirifer, and Corals to trade.  Wants to join MAPS because, "I love Fossils".  (Welcome, Johnathan, hope you make an EXPO!)

Rancher.  Will trade.  Collector of all fossils, but collects ammonites from Bear Paw Shale, MT.  Has Ammonites for trade Interested in fossils.  Buying, trading, and collecting.

Geologist.  Will maybe trade.  Major interest Brachiopods, Gastropods, Conodonts, Penn. and Miss. age.  Wants to associate with fossil lovers and improve collection through updated information and knowledge.

Roofier.  Will trade.  Major interest Cambrian and Pre-Cambrian.  Just starting so will trade as soon as possible.  Interested in fossils and you have information that is very interesting. Plans to collect all over the states.

System Analyst.  Will trade.  Major interest Carboniferous Cephalopods.  Has Carboniferous cephalopods, will trade. Has been collecting for about 5 years.  Interested in computer applications to paleo data collation.

Retired.  Will trade.  Major interest all areas.  Has for trade fern fossils, 2 shrimp.  Wants to join because she likes fossils.

Museum Curator.  Will not trade.  Is joining MAPS for Professional Interest.
Engineer. Will not trade. Interested in invertebrates. Wants to be a member because of sincere interest in fossils.

Earth Science Teacher. Will trade. Major interest invertebrates, echinoids, and vertebrates. Has nothing to trade at this time. Wants to be a member because of a sincere interest in fossils, in meeting other collectors, and learning as much as possible about paleontology.

Chem. Eng.-Retired. Beginning collectors. Has fossils on home property, and wants to share interest in fossils with Mary and John Boland.

Substitute Teacher. Will trade. Major interest invertebrates, especially gastropods, Cenozoic plants and insects. Has Cenozoic leaves, L. Cambrian trilobites cephalons (Cadiz Fm. California). Wants contacts with other collectors and because of reputation of MAPS DIGEST. (Many Thanks. Hope it continues to live up to your expectation.)

Meteorologist. Will trade. Major interest all areas of paleontology are fascinating. I'm especially interested in collecting and preparing specimens. Has for trade Green River fish (esp. Knightia, Diplomystus), Coon Creek Fossils (esp. Exogyra). Wants to meet others with similar interest, possibly trading, finding collecting localities.

Firefighter. Will trade.

Geologist. Will not trade. Major interest Ordovician fossils. Trilobites, Bryozoa, Edrioasters. Wants to get acquainted with other people interested in fossils & field trips.

School Teacher. Will trade. Has Florida Vertebrate and invertebrate fossils for trilobites and ammonites. (Ed comment. Mr. Lumanick is not a new member but would like his nodule changed in your Membership Directory).

College Professor (Chemistry). Will not trade. Major interest Eocene fish and ammonites.
FLOYD McDANIELII
26080 Campau Lane
Mt. Clemens, MI 48045

Student. Interested in all fossils. (WELCOME!)

SCOTT C. MCPHILLIAMY
120 Jepson Avenue
St. Clairsville, OH 43950
614-695-9499

Chemist. Will trade. Major interest Fossil Shark Teeth. Has fossil shark teeth from the USA and Europe. No other fossils available. Most interested in establishing contacts with individuals from any geographical areas who would enjoy the correspondence and trading associated with fossil shark teeth.

CLAUDE E. ODINOT
1923 Oates Dr.
Dallas, TX 75228
214-327-7754

City of Dallas—Public Works—Manager. Will trade. Has Gryphea, Echinoids, Ammonites, miscellaneous. MAPS is one of the best known societies. Want to learn more about fossils from other areas.

ARLENE J. PIKE
516 Sellmeyer Lane
Lewisville, TX 75067
214-436-7140

Housewife/Student/Student Assistant Geology. Major interest vertebrates and invertebrates. Interested in increasing collection, and meeting people with the same interest. I enjoy the fossil hunts.

JOHN PAUL POPE
921 E. Washington
Winterset, IA 50149
515-462-2235

Collecting 19 years. Electronic Technician. Will trade. Interested in Pennsylvanian fossils. Wants to learn more about fossils.

VIRGINIA REEVES
3524 Halsey St.
Eau Claire, WI 54701
715-832-6275

Retired. Will trade. Major interest perhaps ammonites, crinoids, trilobites, brachiopods...try to acquire a wide variety of material from a range of sources. Trading would be limited to duplicate or surplus items. Wants to learn more about fossils, possibly attend some functions and share interests, maybe expand my collection.

RAYMOND R. RUDOLPH
5409 Ferrol Drive
Winter Park, FL 32792
305-677-4172

Electronic Technician. Collecting 2½ years. Interested in all types of fossils and fossil shells. Will buy, sell and trade.

BRUCE ALAN SCAPECCHI
1800 Grand, Apt 31
West Des Moines, IA 50265
515-225-3669

Advertising Sales, DESMOINES REGISTER. Wants to be a part of field trips and camps—for study and collecting. "Low inventory right now". Wants commercial & non-commercial contact with people of equivalent paleontological interests.

JOHN & EARLENE SCHOOLER
3814 Harrison
Kansas City, MO 64109-2650

Teacher. Will trade. Major interest vertebrate, invertebrate Pleistocene, Tertiary, etc. etc. Has for trade Texas/Oklahoma Cretaceous invertebrates (echinoids), Pleistocene vertebrates etc. etc. Wants to expand current knowledge, meet new friends.
STEVEN L. SMITH  
PSC Box 11001  
APO NY, NY 09012  
06371-58283  
(W. Germany)  

JOEL SOCWELL  
Beloit College, Box 908  
Beloit, WI 53511  
608-883-6681  

MARTIN TILLETT  
2410 Fairview Drive  
Alexandria, VA 22306  
703-660-6137  

BARBARA A. TILLEY  
Rt. 1, Box 196A  
Collins, MO 64738  
417-275-4365  

ROLLIN H. TILLIS  
1009-B Cooke Lane  
Norristown, PA 19401  
215-279-6241  

LOUIS J. WALTER  
7213 Gentian Ct.  
Springfield, VA 22152  
703-451-5205  

HEDY HOBBERLIN  
The hobberlin Museum of  
Earth and Planetary Sciences  
171 Avondale Avenue  
Willowdale, Ontario  
CANADA M2N 2V4  

PAUL MILO  
1032 – 18th St. NE  
Calgary, Alberta  
CANADA T2E 4V7  
277-4243  

PIERRE GONIN  
40 Boucher  
HULL, Quebec  
CANADA T8Y 6G3  
819-770-p568  

Capt. USAF. Will trade. Major interest arthropods, echinoidia,  
reptile/amphibian footprints. Have for trade Permian ganoid-  
scaled fish, Permian amphibians, Pennsylvanian ferns. Hobby  
has been Paleontology for over 20 years. Prior MAPS member.  

Student (Beloit College). Will trade. Major interest Tertiary vertebrates. Majoring in Geology at Beloit College and  
my main interest is in Paleontology. I would like to be a part  
of a group of collectors like myself.  

Science Teacher/Naturalist. Interested in all kinds of fossils.  
Wish to acquire (buy or trade) material from other areas world  
wide for science center exhibits and course offerings in intro-  
ductive paleontology. Have Early and Middle Tertiary marine  
fossils to trade.  

Student. Will trade. Has various crinoid and associated  
marine fossils, which I can't identify at this time. Would  
like to learn more about the subject, and learn to identify at  
least a few of the fossils in this area.  

Manager-UNISYS Corp. Will trade. Major interest fossil/  
petrified wood, invertebrates (trilobites). Has for trade  
Cretaceous shark teeth—NJ, St Clair Fern on coal shale,  
petrified wood—NJ & DE, Miocene sharks teeth—NC. Wants  
increased contacts in Paleontology.  

Associated with retail store. Major interest is sales of  
fossils in retail store. Wants to learn more about fossils.  

Teacher, Geologist, Curator of the Hobberlin Museum and en-  
thusiast, interested in all aspects of natural sciences.  

Mechanic. Major interest vertebrate. Wants to increase  
knowledge of fossils and make contacts and friends with people  
in other collecting areas.  

Teacher Earth Science. Trilobite collector. Find some Canadian  
trilobites. Has for trade also fossils from France.
PATRICK BOMMEL
I5, Rue de la Montgolfiere
F-93160 Noisy-Le-Grand
FRANCE
I-43-05-44-08

Professor - Civil Engineering. Will trade or purchase. Only interested in rare and excellent trilobites. Has for trade many fine European trilobites.

GERARD BELLIGAUD
Les Cailloux
87170 Isle
FRANCE

Postal trade wished. Interested in Tertiary marine gastropods brachiopods, ammonites, trilobites, fish, echinoids. For trade: ammonites (Jurassic), gastropods, echinoids, brachiopods (Jurassic).

PIERRE GONZALES
62 Rue Maurice Louis
08120 Bogny S. Meuse
FRANCE

Collects Devonian trilobites and Mesozoic fossils such as ammonites and echinoids. Will trade.

GAUDIER LIONEL
Avenue DuStade
7070 Houdeng-geognies
BELGIUM
64-28-3943

Will trade. Major interest trilobites. Has trilobites, shark teeth, urchins. Wants to find new traders.

Many new members. To each of you our most hearty welcome. Hope all your fossil dreams come true. May your trip with the Good Ship MAPS be friendly and filled with Fossils.

There is The Devonian Institute. Terrific!

The Devonian Institute is dedicated to encouraging communication among those interested in the history of the planet Earth, and especially in the Devonian period, 408,000,000 to 360,000,000 years ago. A bi-monthly newsletter, THE DEVONIAN TIMES is distributed to 1,000 people in 32 countries. Other publications include THE DEVONIAN: A PORTFOLIO OF MAPS, an atlas of what the world was like 400 million years ago. For further information, please write The Devonian Institute, Skip Roy, Director, Alaska Pacific University, 4101 University Drive, Anchorage, AK 99508.

Many thanks, L. W. (Bill) Scheunemann.

The Eocene climate of the Green River lake system was much different from the desert-like climate of that area today. Both the fauna (crocodiles, alligators, boa constrictors, and a few fish families whose extant members are subtropical) and the flora (such as large palm trees and balloon vines; . . . indicate warm temperate to subtropical conditions. (Bradley (1929; 1948), MacGintie (1969) and others

PALEONTOLOGY OF THE GREEN RIVER FORMATION, WITH A REVIEW OF THE FISH FAUNA

by Lance Grande
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: January 1 through December 31 is $10.00 per household.

MAPS meetings are held on the 1st Saturday of each month (2nd Saturday if inclement weather). September, October, May, June and July meetings are scheduled field trips. The August meeting is in conjunction with the Bedford, Indiana Swap. November through April meetings are scheduled for 2 p.m. in the Science Building, Augustana College, Rock Island, Illinois. One annual Internation 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 61201
1st Vice President: Larry A. Wiedman, Paleoecologist, Dept. of Geology, Monmouth, IL 61462
2nd Vice President: Doug DeRosear, Box 125, Donnellson, IA 52625
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Treasurer: Marvin Houg, 3330 44th St. N.E., Cedar Rapids, IA 52404
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CYATHOCRINITES

MID-AMERICA PALEONTOLOGY SOCIETY

Mrs. Madelynne M. Lillybeck
MAPS DIGEST Editor
1039 - 33rd St. Ct.
Moline, IL 61265

Dated Material - Meeting Notice