

M.A.P.S. *Digest*

Official Publication of
Mid-America Paleontology Society

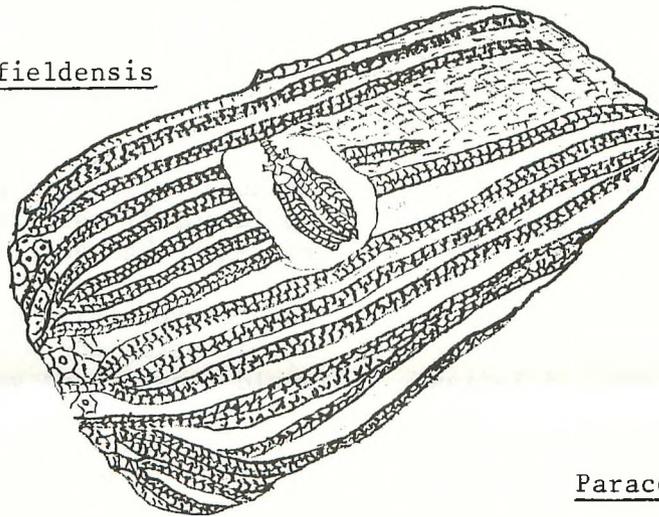
Volume 10 Number 3
March, 1987

Top View

Paracometocrinus richfieldensis

on

Cusacrinus daphne



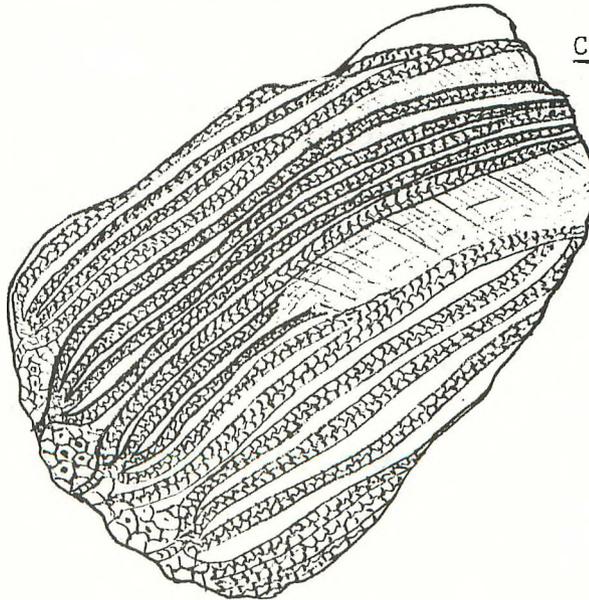
Bottom View

of

Paracometocrinus richfieldensis

on

Cusacrinus daphne



ONE OF A KIND

14 Mar MAPS MEETING--Home of Bob and Margie Cooper, 5012 Pfeiffer Road, Peoria, Illinois
 12:30 Meeting before adjourning to a lecture in the Cooper Biological Museum.

PLEASE TAKE NOTE

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

11 Apr MAPS MEETING--Cedar Rapids Gem and Mineral Show, Cedar Rapids, IA
 1:00 Board Meeting--Last meeting before EXPO IX
 2:00 Entertainment by Cedar Rapids Club.

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.

24 Apr MAPS International Fossil Exposition, Western Illinois University
 25 Union Building, Grand Ballroom,
 26 Macomb, Illinois

(())

NOW YOUR DUES

It's time to get serious. Better every year. It seems impossible but it happens.
 Dust off your cases.
 Pack up your fossils
 See you in Macomb. (Don't forget your toothbrush).

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.

EXPO IX -- ECHINOIDS

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

12 Jun BEDford, Indiana, Bedford Indiana
 13 Rock Swap. 4-H Fairgrounds
 14 2:30 MAPS Meeting

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

(Ed apology--In a recent DIGEST I said this show was in conjunction with MAPS Indiana Society of Paleontology. It has been called to my attention, this is not so. The Indiana Chapter of MAPS will host the MAPS Meeting. Thank you.)

before the EXPO. Many Thank yous!

(())

15 Oct Florida Fossil Fair sponsored by
 16 Bone Valley Fossil Society
 17 Mulberry, Florida at the Mulberry
 18 Phosphate Museum. For more
 Information Call: 813-681-4350

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 goooood ice cream.

1988 April 22, 23, 24 EXPO X Macomb, Il
 1989 April 14, 15, 16 EXPO XI, Macomb, Il

(((())))

(((())))

(((())))

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.

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.

A D V E R T I S I N G S E C T I O N - -

We make fossils affordable. We offer the finest reproduction fossils and the largest variety available anywhere. Add to your collection without getting a loan. Here we feature a few spectacular specimens from our collection. Add \$3.00 each item for shipping, excess will be refunded. Lists available. Satisfaction guaranteed.

Crotalocephalus gibbus a flat 3½ " trilobite on matrix from the Devonian of Morocco. A rare and fantastic item. RT86 15.00

Dalmanites limulurus three excellent 2" trilobites on matrix from the Silurian of N.Y. RT91 15.00

Echioceras raricostatoides three excellent 2½: ammonites on matrix from the Jurassic of England. RC4 12.00

Hypsilisaurus priscum a giant 7 x 8" - 5" high dinosaur egg from the Cretaceous of France. Excellent. RD27 25.00

SEE US AT THE MAPS SHOW IN APRIL

Mid-Land Scientific Service, P.O. Box 601, Stryker, Ohio 43557

(())

(())

KEYS TO IDENTIFY PENNSYLVANIAN FOSSIL PLANTS OF THE MAZON CREEK AREA

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:

Published by ESCONI 60 pages 8½" x 11". Over 330 original drawings showing major plants with characteristic roots, bark, cones, seeds fronds, and leaves.

Jerry Prepp, 5858 Woodward, Downers Grove, Illinois 60516 Illinois \$8.50
Out-of-state \$8.00 Foreign add \$1.00
Air Europe add \$3.00 Australia \$4.00

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

BUSINESS CARDS FOR FOSSIL HUNTERS

Sample Business Card

Tired of collecting names of fossil friends on a lot of scraps of paper, only to lose them, or forget what they are interested in?

NOW YOU CAN BE SURE YOUR NAME WON'T BE THE ONE LOST - WITH A CUSTOM MADE CARD ILLUSTRATING YOUR FAVORITE FOSSIL!

Send a self-addressed, stamped envelope to:
Tom Arnold, P.O. Box 367, Richlandtown, PA 18955.
I will send you information concerning price, availability of fossil illustrations, and options of color & typestyles.

MAKE YOURSELF UNFORGETTABLE, SO YOUR FRIENDS WILL KNOW YOU'RE NOT EXTINCT.

(215) 536-6038



Tom & Linda Arnold
FOSSIL COLLECTORS

P.O. Box 367
Richlandtown, PA 18955

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

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

No. 568. Donovan, S. K. *Pelmatozoan columnals from the Ordovician of the British Isles.* 14 pds.

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

No. 570. Owens, R. M. *The Carboniferous trilobites of Britain, Part 1.* 10 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, Palaeontological Society
c/o British Geological Survey
Keyworth
Nottingham NG12 5GG
ENGLAND

(00)

(00)

(00)

(00)

(00)

(00)

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 clavacula, 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, Ananaspis 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 clavacula, Fragiscutum glebalis, Ananaspis guttulus, Proetus foculus, Dalmanites rutellum, Anasobella asper, and Cheirurus infensus. Haragan trilobites include Paciphacops raymondi, Paciphacops logani, Paciphacops inivius, 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!)

(())

* There is, however, one locality where a physical contact is recognizable between the Henryhouse and the Bois d' Arc Formation. The Bois d' Arc is a facies of the Haragan--that is, one formation grades laterally into the other.

Please UPDATE Your Membership Directory --

SABO, DONALD 176 Woodfield Green S.W., Calgary, Alberta CANADA T2W 3T9
 BALOGH, MIKE 497 RtG 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

Son, Riley, is interested in dinosaurs.

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

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

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

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.

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

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.

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

Roofer. 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.

RON DOBOVAN
 2130 Fulmer CT
 Ann Arbor, MI 48103

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

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.

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

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

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

Museum Curator. Will not trade. Is joining MAPS for Professional Interest.

- ROBERT W. HALL
2112 Masters
Dallas, TX 75227
214-289-8462
Engineer. Will not trade. Interested in invertebrates. Wants to be a member because of sincere interest in fossils.
- LISA HANKINS
7220 McCallum Blvd, #912
Dallas, TX 75252
214-380-0163
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.
- MARGARET & FRANK HARSACKY
2305
Wilmington, OH 45036
513-932-6294
Chem. Eng.-Retired. Beginning collectors. Has fossils on home property, and wants to share interest in fossils with Mary and John Boland.
- HEIDI JOHNSON (MRS.)
174 Quality Hill
P.O. Box 1221
Bisbee, AZ 85603
602-432-5880
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.)
- ROB KALEEL
872 S. Park
Springfield, IL 62704
217-787-2137
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. Knightsia, Diplomystus), Coon Creek Fossils (esp. Exogyra). Wants to meet others with similar interest, possibly trading, finding collecting localities.
- ERIC & SANDRA KENDREW
4436 Tevalo Dr.
Valrico, FL 33594
813-681-4350
Firefighter. Will trade.
- ROBERT L. KLICK
48 Roycroft Blvd.
Snyder, NY 14226
- SALLY LABERGE
4556 Honeysuckle Ct.
Oshkosh, WI 54904
414-231-4122
Geologist. Will not trade. Major interest Ordovician fossils. Trilobites, Bryozoa, Edrioasters. Wants to get acquainted with other people interested in fossils & field trips.
- GARY LUMANNICK
11770 SW 29th St.
Miami, FL 33175
305-221-4227
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).
- JAMES L. LYLE
619 8th Place
Hermosa Beach, CA 90254
213-376-0087
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 DesMoines, 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
(This member should have been listed above as an address update. Moved from Lee's Summit, MO. Editor Error.)
- KEVIN SHANNON
RD#1 Shannon Rd.
Beaver Dams, NY 14812
Collect many years. Collects in the Finger Lakes Region of New York.
- KENNETH W. SMITH
138 Beckleywood
Dallas, TX 75224
214-
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
60371-58283
(W. Germany)
- 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.
- JOEL SOCWELL
Beloit College, Box 908
Beloit, WI 53511
608-883-6681
- 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.
- MARTIN TILLET
2410 Fairview Drive
Alexandria, VA 22306
703-660-6137
- 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 introductory paleontology. Have Early and Middle Tertiary marine fossils to trade.
- BARBARA A. TILLEY
Rt. 1, Box 196A
Collins, MO 64738
417-275-4365
- 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.
- ROLLIN H. TILLIS
1009-B Cooke Lane
Norristown, PA 19401
215-279-6241
- 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.
- LOUIS J. WALTER
7213 Gentian Ct.
Springfield, VA 22152
703-451-5205
- Associated with retail store. Major interest is sales of fossils in retail store. Wants to learn more about fossils.
-
- Add to CANADIAN and OVERSEAS Membership.
- HEDY HOBBERLIN
The hobberlin Museum of
Earth and Planetary Sciences
171 Avondale Avenue
Willowdale, Ontario
CANADA M2N 2V4
- Teacher, Geologist, Curator of the Hobberlin Museum and enthusiast, interested in all aspects of natural sciences.
- PAUL MILO
1032 - 18th St. NE
Calgary, Alberta
CANADA T2# 4V7
277-4243
- Mechanic. Major interest vertebrate. Wants to increase knowledge of fossils and make contacts and friends with people in other collecting areas.
- PIERRE GONIN
40 Boucher
HULL, Quebec
CANADA T8Y 6G3
819-770-p568
- Teacher Earth Science. Trilobite collector. Find some Canadian trilobites. Has for trade also fossils from France.

- PATRICK BOMMEL Professor - Civil Engineering. Will trade or purchase.
 15, Rue de la Montgolfiere Only interested in rare and excellent trilobites. Has for
 F-93160 Noisy-Le-Grand trade many fine European trilobites.
 FRANCE
 I-43-05-44-08
- GERARD BELLIGAUD Postal trade wished. Interested in Tertiary marine gastropods
 Les Cailloux brachiopods, ammonites, trilobites, fish, echinoids. For
 87170 Isle trade: ammonites (Jurassic), gastropods, echinoids, brach-
 FRANCE iopods (Jurassic).
- PIERRE GONZALEZ Collects Devonian trilobites and Mesozoic fossils such as
 62 Rue Maurice Louis ammonites and echinoids. Will trade.
 08120 Bogny S. Meuse
 FRANCE
- GAUDIER LIONEL Will trade. Major interest trilobites. Has
 Avenue DuStade trilobites, shark teeth, urchins. Wants to find new traders.
 7070 Houdeng-geognies
 BELGIUM
 64-28-3943

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.

BILL SCHEUNEMANN, PO Box 67044, Chugiak, AK 99567--I received my MAPS February issue and noticed two possibly horrible errors. Could'a sworn I sent the order form on.

The Chugiak Gem & Mineral Society has just published a GUIDE BOOK FOR ROCKHOUNDS BUT it's only maps on sites reached from roads in Alaska! Also cost is \$9.95 plus \$1.00 for postage and Handling for a total of \$10.95.

(Ed comment. I did not keep the copy of Mr. Scheunemann's letter, so I will have to take responsibility for leaving off the \$1.00 for postage and handling. There was no order form, or I probably might have reduced it and included it. However, when I read what was in the DIGEST I did not think it was as bad as did Mr. Scheunemann. Nevertheless, my most sincere apologies for any inconvenience.

What to do? I cannot decide for the Gem & Mineral Society. But, if you have already ordered a book please sent \$1.00 for P&H. If not, the book costs \$10.95 including P&H.

I sincerely hope it did not turn out as bad as Mr. Scheunemann felt it might. Hope there were lots of orders!

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 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 61201
 1st Vice President: Larry A. Wiedman, Paleoecologist, Dept. of Geology, Monmouth, IL 61462
 2nd Vice President: Doug DeRosear, Box 125, Donnellson, IA 52625
 Secretary: JoAnn Good, 410 N.W. 3rd Street, Aledo, IL 61231
 Treasurer: Marvin Houg, 3330 44th St. N.E., Cedar Rapids, IA 52404
 Membership: Tom Walsh, 501 East 19th Avenue, Coal Valley, IL 61240



CYATHOCRINITES

MID-AMERICA PALEONTOLOGY SOCIETY

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

Dated Material - Meeting Notice



FIRST CLASS MAIL



Allyn & Dorris Adams
 612 W. 51st Street
 Davenport, IA 52806
 12/87