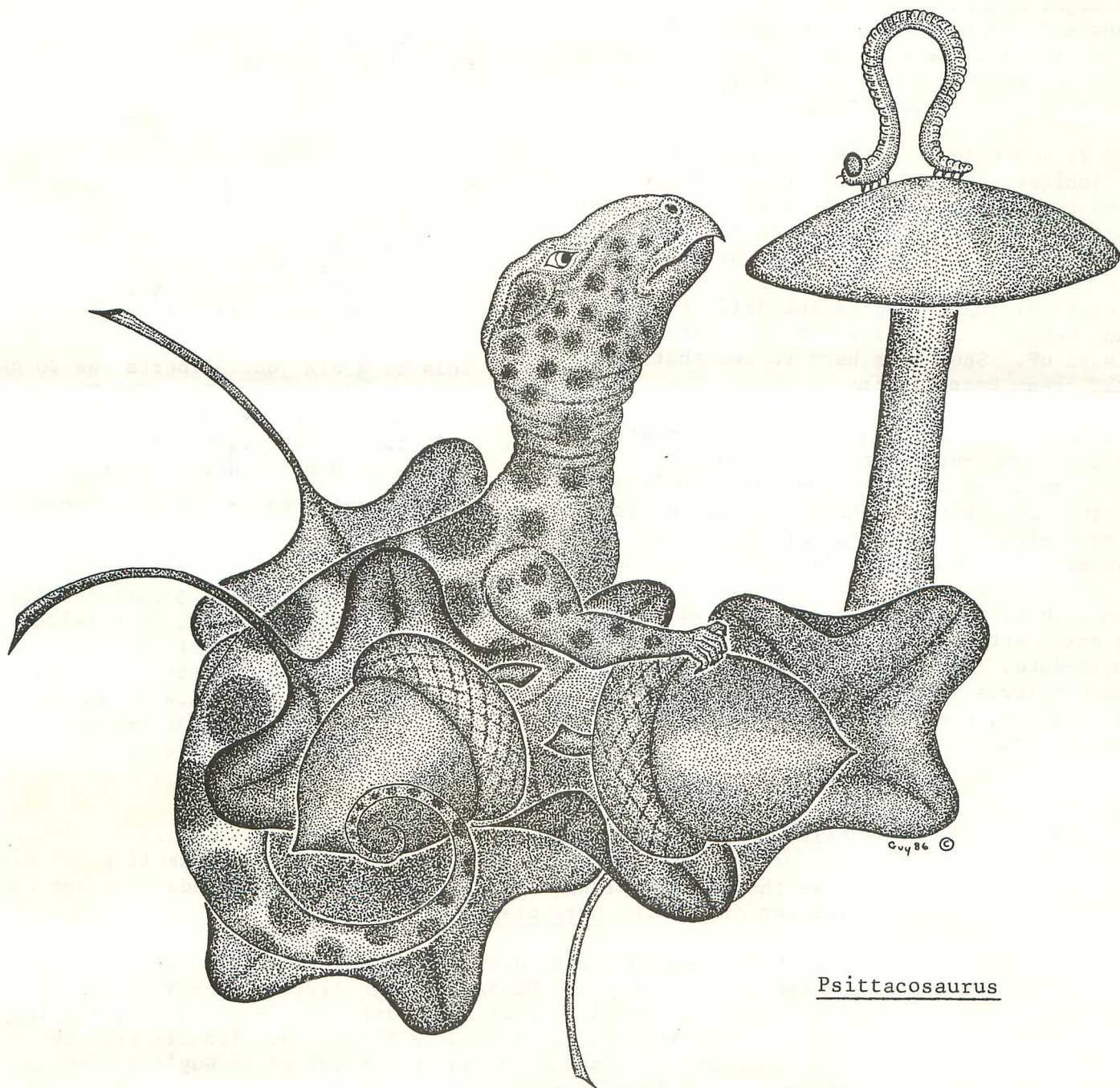


M.A.P.S. *Digest*

Official Publication of
Mid-America Paleontology Society

Volume 10 Number 1
January, 1987



Psittacosaurus

Please welcome MAPS new officers and a most sincere thank you to MAPS hard-working retiring officers. These loyal MAPS members give generously of their time and talents to keep the Good Ship MAPS afloat

New officers:

President, Gil Norris, dedicated, loyal and willing to help anyplace anytime. Gil has been President before. We are in good hands.

1st Vice President, Larry Wiedman, Paleogeologist, Department of Geology, Monmouth College, Monmouth, Illinois. Larry is an enthusiastic new member. We meet once a year at Monmouth and Larry and his student geologists are most gracious hosts. Larry's enthusiasm is intoxicating.

2nd Vice President, Doug DeRosear, LOVES trilobites. His beautiful prepared specimens are awesome. Doug is a living example of the old adage, Still waters run deep. He helps keep us on track. Lead us to fossils!

Secretary, JoAnn Good is the definition of "Rockhound". JoAnn loves people, she is always UP. She works hard to see that the MAPS dream keeps living.

Treasurer, Marvin Houg, has the toughest job of all. One never gets caught up when Treasurer. He always stays cool. He's some of the young blood in MAPS. Proud new father, busy engineer, dedicated MAPS member who has become well acquainted with his local bank.

Membership, Tom Walsh, is working with Marv to make certain our computer list is always up-to-date. Tom is well organized. A gentle man who loves finding his fossils. Always has a smile, keeps a low profile, loves all of nature.

New Board Member, Allen Adams is not new to MAPS. A sparkle in his smile, a twinkle in his eye. Soft spoken and on target. Easy to work with.

Direct any ideas, thoughts, requests to any one of these people. They each have a special feeling for MAPS. We are off to our best year yet.

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2 SPECIAL REMINDERS

DUES are due -- \$10.00

Make checks payable to MAPS

Mail to: Marv Houg, Treasurer

3330 44th St. N.E.

Cedar Rapids, IA 52404

NEW MEMBERSHIP DIRECTORY -- Too many errors in last year's Directory. Send any changes or new information to:

Mrs. Alberta Cray

1125 J Avenue, N.W.

Cedar Rapids, IA 52405

This is a big job. Alberta has to organize and then the Computer Man has to up-date. Please don't wait. It only takes about 15 minutes. Let's have a good up-to-date Directory.

MARK YOUR CALENDAR

10 Jan -- MAPS MEETING -- Augustana College
Fryxell Museum, Rock Island, IL
1:00 Board Meeting
2:00 MAPS Meeting -- A Dinosaur Dig -- Dick Johannesen,
Curator, Augustana Fryxell
Museum, Rock Island, IL

ABOUT THE COVER -- Psittacosaurus is a Cretaceous dinosaur found in Mongolia. It is one of the smallest known dinosaurs. The juvenile skull found was less than an inch long. Psittacosaurus were bipeds and were the forerunners of the Ceratopsians.

MAPS Member Guy Darrough drew this cover especially for this issue of the Digest. Guy and Doris Darrough live at 3619 West Maline, St. Louis, MO 63121. Their major interest is dinosaurs, but they collect fossils from the Gasconade Formation. Fossils from the Gasconade are as distinctive and beautiful as is Guy's art work. Thank you and love from us in MAPS. Say hello to Guy and Doris in Macomb at EXPO IX.

7 Feb -- MAPS MEETING -- Monmouth College
Geology Department, Monmouth IL
1:00 Board Meeting
2:00 MAPS Meeting -- Larry A.
Wiedman, Paleoecologist,
and his geology students in
charge. It will be great!

24 Apr -- MAPS EXPO IX -- Western Illinois
25 University, Macomb, Illinois
26

Well, are you ready? Doug's trilobites are packed! Gil's little drawered box with all the locks--filled! Marv Houg can't be reached--he traded trilobites for an air dent, now he has to replace trilobites--no phone in the quarry. Frank Holmes, Australia, found so many echinoids he's still washing them. But he'll be there. It's time to get in gear! It's almost ice cream time.

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A NOTE TO YOU

How to say thank you to each one? Your continued support with beautiful Digest covers, fascinating original articles, newspaper clippings, new member referrals, and just YOU are what make MAPS. Many of you write special personal notes which put a song in the heart.

When the going gets tough go to your collection, look into the windows of the past, and think about the absolute joy of the people because of those fossils--each one special. What an incredible hobby.

MAPS Digest, Volume 1 Number 1, dated April, 1978, says "HALLELUJAH.....". What's in store in '87? Won't it be fun to discover. Aren't we all lucky!

Kindest regards and much love to each of you,

MAPS BOARD OF DIRECTORS

A D V E R T I S I N GA D V E R T I S I N GA D V E R T I S I N G

North America's leading producer of high quality reproduction fossils takes pride in featuring a few spectacular reproduction trilobites from our vast collection. Satisfaction guaranteed. Add \$3.00 each item for shipping, excess refunded. Lists available.

Huntonia linquifer a 5" specimen on matrix. Finest collected to date and now in the Doug DeRosear collection.
RT62. \$15.00

Dipleura dekayi a giant 7½" specimen on matrix from N.Y. now in the Jeff Aubry collection.
RT89. \$18.00

Ceraurus pleurexanthamus a giant 3" specimen on matrix. RT87. \$15.00

Isotelus maximus 9 X 6" specimen on matrix. Excellent. RT14. \$25.00

MID-LAND SCIENTIFIC SERVICE, P.O. Box 601, Stryker, OH 43557

BUSINESS CARDS FOR FOSSIL HUNTERS

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.

Sample Business Card



(215) 536-6038

Tom & Linda Arnold
FOSSIL COLLECTORS

P.O. Box 367
Richlandtown, PA 18955

A D V E R T I S I N GS E C T I O NC O N T I N U E D

CONSIGNMENTS WANTED

We are seeking quality fossils to sell at the upcoming Tucson show. Please contact MAPS members Jim Welch (406-252-3599) or John McLeod (406-256-6124) or write P.O. Box 3322, Billings, MT 5913

SEE SEDIMENTARY NOTES--Gary Rakes

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SEDIMENTARY NOTES

JOHN E. ALMOND, Cambridge, ENGLAND--I am a Research Fellow in palaeontology at Cambridge University, England and I am currently working on Palaeozoic terrestrial Arthropoda (particularly Myriapoda: millipedes and centipedes) from Europe and North America. I have spent a considerable amount of time working on specimens from Mazon Creek, IL. I understand from Bret Beall of the University of Michigan that it would be very worthwhile to ...request further material through the Mid America Paleontology Society Digest.

(Following is the formal request of Mr. Almond) FOSSIL MYRIAPODS (centipedes, millipedes). Any specimens and locality information of fossil myriapods for incorporation in a comprehensive review of North American Palaeozoic Myriapoda would be greatly appreciated by John E. Almond, Department of Earth Sciences, University of Cambridge, CAMBRIDGE CB2 3EQ, ENGLAND.

(Editor comment: Will the real Bret Beall please stand up? At least they know MAPS cooperates with scientific studies, but who are "they"?)

SCOTT C. MCPHILLIAMY, 120 Jepson Avenue, St. Clairsville, OH 43950--How did I miss MAPS? I never heard of your organization until this week when I saw a MAPS Digest and a 1986 Membership Directory. Looks fantastic!

LLOYD & FRIEDA GUNTHER, 28 N. 200 W. Brigham City, UT 84302--We will be helping BYU again this winter. Their Earth Science

KEYS TO IDENTIFY PENNSYLVANIAN
FOSSIL PLANTS OF THE MAZON CREEK AREA

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, IL 60516 Cost -- Illinois \$8.50; Out-of-State \$8.00; Foreign add \$1.00; Air Europe add \$3.00; Australia add \$4.00.

Museum is now in the planning stage and plans are developing nicely. It should be a dandy when it becomes a reality.

GARY RAKES, P.O. Box 26800, 66 Knob Road, Rochester, NY 14626

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 \$8.50 per book plus \$1.00 shipping and handling. Orders of \$10 or more: \$7.50 each + \$1.00 shipping and Handling.

(Sorry, Gary, I jumped over your letter when writing the ads.)

CLARENCE SCHUCHMAN, 4812 "F" Parkway, Sacramento, CA 95823--The following paragraph relates to AN EXAMINATION OF THE SPECIES Letuscollectus fossili, MAPS DIGEST, Volume 9 Number 7, an article written by Clarence, presented in Sacramento last summer at the California Federation Show and Exhibit.

"It seems that in the absence of Bill Pitt last summer I relied on memory and secondary sources for information on his Galapagos adventure, and garbled things. Actually, due to his contacts in Ecuador, Bill set up the whole study in the first place, then enlisted the help of paleontologists from UC Berkeley and UC Davis--a still more spectacular Letuscollectus fossili event!"

Congratulations, Bill Pitts, thanks Clarence.

NEW STUDY DISPUTES QUICK END TO DINOSAURS
Dinosaurs didn't go out with a bang, but with a whimper, say researchers who believe the prehistoric creatures lived at least 750,000 years after the asteroid strike that's believed to have wiped them out.

Popular theory suggests dinosaurs were killed when a giant asteroid hit Earth 65 million years ago, but Robert E. Sloan and J. Keith Rigby, Jr., citing evidence from southern China and Montana's McCone County, dispute that.

Sloan and Rigby presented their findings at the annual meeting of the Society of Vertebrate Paleontology at the Academy of Natural Sciences, Philadelphia.

"The implications of our findings are monumental," said Rigby, a professor at the University of Notre Dame. "At the minimum, they show that an asteroid did not cause the extinction of the dinosaurs."

Sloan, a professor at the University of Minnesota, and Rigby said several reasons contributed to the creatures' decline over a 7-million-year period. They said the Montana excavations showed that half the plants in the region died over 3 million years, drastically altering the dinosaurs' food supply.

Also, changes in the sea floor caused the global sea level to drop 1,000 feet during the same period, creating land bridges between Asia and North America. More animals migrated into the dinosaurs' habitat, increasing competition for food, the two said.

In 1980, Luis Alvarez, a Nobel Prize-winning physicist, and his son Walter, a geologist, first proposed that a 6-mile-wide asteroid smashed into the planet at a speed of 40,000 mph. The impact would have been 1,000 times greater than a blast created by exploding the world's entire nuclear arsenal.

The father and son team said the impact sent so much dust and soot into the atmosphere that sunlight was blocked and temperatures plummeted. As a result, plants withered, animals starved or froze to death and the dinosaurs became extinct, enabling mammals, and eventually humans, to dominate Earth.

Rigby said that at most, two species of dinosaurs became extinct...findings show that 11 species survived the impact and ensuing disruption.

From DESERET NEWS -- 11-10-86. Sent by MAPS member Lloyd Gunther, Brigham City, Utah.

FOSSILS IN CHINA PRODUCE HYPOTHESIS ABOUT WHY DINOSAURS DIED OUT-- When he was an 18-year-old geology student, Zhao Zhikui listened with fascination as a professor described the Mesozoic world of dinosaurs, some of them small, delicate creatures but others the biggest beasts the Earth has seen, and he wondered why they had disappeared so abruptly from their lush habitats about 65 million years ago.

Today, Zhao is 46 and a senior researcher at the Chinese Academy of Sciences' Institute of Vertebrate Paleontology and Paleoanthropology and he still wonders why....

The answer is to be found, at least, in part, in the dinosaurs' eggs, Zhao believes. "The shells got thinner and thinner, with less calcium to harden them, until they reached the point where the shells simply could not protect the eggs until they hatched," Zhao said.

This suggests significant changes in the dinosaurs' diet and thus in their environment, particularly the climate, he continued, "but that is about as far as we can take it for now."...

Chinese research into the life and times of the dinosaur is of considerable importance because China has fossils from more than 100 different species of dinosaurs, some found nowhere else, nearly 500 eggs from 40 of those species and a large amount of evidence of the dinosaurs' habitats. Each year, more fossils are excavated--an area in the southwestern Chinese province of Sichuan has yielded more than 200 large packing crates of dinosaur bones...

"As a continent, Asia emerged earlier and was never submerged again, as were North America and Western Europe, so we have continuous strata from bottom to top, a continuous record of geological formation."...

The Chinese began finding and examining dinosaur bones more than 3,000 years ago--they are the "dragon bones" of Chinese legends and traditional Chinese medicine--but formal research began only 50 years ago, after foreign scientists trained Chinese assistants.

Some of the greatest finds of dinosaur fossils were made by foreigners working in China, said Zheng Jiajian, another researcher at the Paleontology Institute, "but they took them away to America, Sweden, the Soviet Union. In the last 30 years, however, we have found hundreds--actually thousands--of fossils, including a number of whole dinosaur skeletons and hundreds of eggs...

The current focus of Chinese dinosaur research is on the late Cretaceous Period of the Mesozoic Era about 70 million years ago when dinosaurs began to die out....

A working hypothesis developed by Dong, Zhao and other Chinese researchers is that over their 115-million-year history dinosaurs grew larger and larger, requiring increasing amounts of food, whether they were meat or plant eaters, until they were so big that they could not get enough to eat..."We know they were not getting enough calcium," said Zhao..."and that alone may have been fatal."

Dong added that given the amounts of food the big dinosaurs required--the largest skeleton found in China is nearly 72 feet long, more than 11 feet tall, and the dinosaur probably weighed more than 50 tons--any change in climate could have had a tremendous impact.

"When we have a two or three year drought today, we can cope, but only with difficulty," he said. "What if there were successive droughts? What if there were a small but significant change in the climate that over a million or 2 million years raised temperatures, reduced rainfall, affected certain plants that supported the dinosaur population? There is evidence of such changes, and so we are studying their impact..."

by Michael Parks, LOS ANGELES TIMES, June 24 1982. From FOSSILETTER, December, 1986

BONES OF A NEW KIND OF DINOSAUR FOUND IN MONTANA--A new kind of horned dinosaur, Avaceratops lammersi, the first to be found in North America in 35 years has been discovered by a team of scientists headed by Peter Dodson, the Academy of Natural Sciences, Philadelphia.

Dodson eventually concluded that he had discovered a new genus of dinosaur, one of the approximately 280 genera of dinosaur known to have existed.

Its distinctive feature is the shape of the bones on the bony frill projecting from the back of the skull. All horned dinosaurs have the frill,...but this frill was apparently solid, while other horned dinosaurs had a pair of large holes in the frills.

Avaceratops lammersi, "Ava" honors Ava Cole, a fossil collector and the wife of Cole. "Ceratops" means "horn face" and "lammersi" honors the Lammers family, owners of the ranch where the bones were discovered.

SAN JOSE MERCURY NEWS, 12-18-86. Sent by Larry Oliveria, Milpitas, California

NEW DINOSAUR SPECIES NAMED IN HONOR OF PLUMBER London--Scientists announced the discovery of a previously unknown flesh-eating species of dinosaur that had 15-inch claws, 128 teeth with fine serrations probably used to eat fish as well as land animals, and weighed up to 2 tons.

The dinosaur probably spent most of its time on all fours by the river using its snout and perhaps its large claw to catch fish much as grizzly bears swipe fish out of the river.

THE ARGUS, Rock Island, Illinois, 11-29-86 Sent by Gerry Norris, Rock Island, Illinois

DINOSAURS RANGED GLOBALLY, ANTARCTIC FOSSIL FIND CONFIRMS--Dinosaur fossils now have been found in all the Earth's large land masses. The bones were uncovered by an Argentine Expedition led by Eduardo Olivero. With the discovery, it now can be said that the great reptiles in their prime were a truly global phenomenon.

Analysis of the few fossils has led Argentine scientists to identify the specimen as a new plant-eating species...

The discovery was of great significance because it verified for the first time the existence of dinosaurs in Antarctica. This, in turn, is additional evidence that the continent, which once was connected to South America and Australia, had not yet drifted to its present position and had enjoyed a much milder climate.

CHICAGO TRIBUNE, 12-7-86. Sent by Gerry Norris, Rock Island, Illinois

EXPO HOURS: Friday, April 24 -- 8:00 a.m. - 7:00 p.m.
7:30 p.m. Lecture
Saturday, April 25-- 8:00 a.m. - 5:00 p.m.
2:00 p.m. Lecture
6:30 p.m. Lecture
Sunday, April 26 -- 9:00 a.m. - 3:00 p.m.

No plane service to Macomb at this time, but we will help to arrange transportation from Moline, Illinois, airport if you will made ADVANCE arrangements with Mrs. Gerry Norris, 2623 - 34th Ave. Ct., Rock Island, IL 61201 (309/786-6505), or Mrs. Madelynne Lillybeck, 1039 - 33rd St. Ct., Moline, IL 61265 (309/764-0921).

Macomb zip code -- 61455

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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. -- FRUSTRATION!

MEALS

Meals are available in the Union. Fast food stands in the lower level. Ice cream! There are restaurants in town and a deli bar in a grocery nearby.

EXPO REGULATIONS

Everyone is requested to make advanced registration by MARCH 31, 1987. Mark your calendars now so you don't forget! Send the registration form found in the DIGEST with your requests for tables, display space, and Union housing reservations to: Tom Walsh, 501 East 19th Ave. Coal Valley, IL 61240 Phone 309/799-3626.

ALL TABLES WILL BE ASSIGNED. If you want a table next to someone, or specifically located, PLEASE say so when you send your money. Cost of tables is \$10.00 each for a 6' table for the weekend. Half tables may be rented for \$6.00.

The Committee insists that all materials be fossil or fossil related. Mountings, gemstones, minerals, Indian relics, etc., are not permitted.

DISPLAYS

EXPO is special because of displays. They are a gift. Take time to give everyone a glimpse into ancient epochs. Look forward to another display from the National Museum. Tables are provided at no cost--8 ft. limit. If you need more space, please contact Show Chairman, Karl Stuekerjuergen. This is the YEAR OF THE ECHINOID. Look forward to seeing many fine echinoid specimens.

ALL RESERVATIONS WILL BE ACKNOWLEDGED

OTHER ACTIVITIES

Look forward to a continuous echinoid slide show. There will be a speaker Friday evening at 7:30 p.m. followed with a short business meeting. Look forward to a speaker on Saturday at 2:00 p.m. and one at 6:30 p.m.. No banquet this year at membership request. If we miss it, we can reinstate it next year. A LIVE AUCTION Saturday evening. Everyone is asked to provide a quality specimen, with full data and the name of the fossil doner. Specimens can be left at the Information Desk up until 3:00 p.m., Saturday. If you wish to mail your specimen, send it with pertinent information to Paul Rechten, 7405 Shields, Harvard, IL 60035. Paul will send a postal acknowledgement on receipt of the mailed specimen.

Show Chairman. . . . Karl Stuekerjuergen, Rt. 1, Box 28A West Point, IA 52656 319/837-6690
 Table Reservations . Tom Walsh, 501 E. 19th Ave., Coal Valley, IL 61240 309/799-3626
 Auction. H. Paul Rechten, 7405 Shields, Harvard, IL 60035 815/943-4178
 Reception Desk . . . Peggy Walsh, 501 E. 19th Ave., Coal Valley, IL 60035 309/799-3626
 Slide Program. . . . Gil Norris, 2623 34th Avenue Ct., Rock Island, IL 61201 309/786-6505
 Liaison Wallace Harris, 325 E. Franklin, Macomb, IL 61455 309/833-4869
 Steve Durnal, Western Illinois University, Macomb, IL 61455
 Publicity. Tom Witherspoon, Sr., 6611 Miller Road, Dearborn, MI 48126 313/582-313

If you have any questions, please contact any of the above.

NATIONAL FOSSIL EXPO IX. -- REGISTRATION FORM

Please complete the form below, enclose a check payable to MAPS, and mail to:
Tom Walsh, 501 East 19th Avenue, Coal Valley, IL 61240, before March 31, 1987.

NAME: _____ PHONE NO: _____

ADDRESS: _____
city state zip

_____ Yes, I will provide a display for EXPO. It will require _____ linear feet of table.
8ft maximum display.

_____ I request (number) of 6' tables for selling and swapping. Cost is \$10.00 per table.
_____ 1/2 table \$6.00 I have enclosed a check in the amount of \$_____.

_____ Number of chairs I will need.

_____ Will you attend EXPO for all three days?

_____ I request to be next to _____ for my sell/
swap table.

_____ 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.

Questions:

Suggestions:

DID YOU SEND YOUR CHECKS FOR YOUR DUES? A gentle reminder. Checks payable to MAPS to:
Marvin Houg, 3330 44th St. N.E., Cedar Rapids, IA 52402

HAVE YOU UP-DATED ALL INFORMATION FOR THE MEMBERSHIP DIRECTORY. Send information to:
Mrs. Alberta Cray, 1125 J Avenue, N.W., Cedar Rapids, IA 52405

NO ONE EXCEPT THE GUARD IS ALLOWED ON THE SHOW FLOOR FOR ANY REASON AFTER SHOW HOURS.

A post EXPO field trip on Monday, April 27 is being considered. The weather should be
fine, but bring warm clothes. Maybe green grass, rippling brooks and lilacs.

Thanks and see you at EXPO IX. It will be just fine!

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
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 52402
Membership: Tom Walsh, 501 East 19th Avenue, Coal Valley, IL 61240



CYATHOCRINITES

MID-AMERICA PALEONTOLOGY SOCIETY

Mrs. Madelynn 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