

Official Publication of Mid-America Paleontology Society

Volume 18 Number 1 January, 1995



MARK YOUR CALENDARS

FEB NO MAPS MEETING

4 MAR MAPS MEETING, UNIVERSITY OF IOWA. IOWA CITY, (TENTATIVE LOCATION)

> 1:00 Board and Regular Meeting Combined 2:00 Program

25 MAR 1995 TAMPA BAY FOSSIL CLUB SHOW 26

This is a change. Consult MAPS Directory for further information

7 APR 1995 MAPS NATIONAL FOSSIL **EXPOSITION XVII—CRINOIDS** 9

Fri., Apr. 7: 8am - 6pm Sat., Apr. 8: 8am - 5pm Sun., Apr. 9: 8am - 3pm

PLEASE NOTE: THE DATES ARE INCORRECT IN THE 1994 DIRECTORY

*** 95/01 DUES ARE DUE ***

Are your dues due? You can tell by checking your mailing label. The top line gives the expiration date in the form of year followed by month--95/01 means 1995/Jan. Dues cover the issue of the Digest for the month in which they expire.

We do not send notices but will let you know if you are overdue by highlighting your mailing label on your *Digest*. We carry overdues for two months before dropping them from our mailing list.

Please include your due date and name exactly as it appears on your mailing label -- or include a label.

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

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

NOVEMBER COVER--COMURA--CORRECTION

November's cover photo of Fred Wessman's Comura trilobite was taken by Tom Whiteley, Rochester, NY, a MAPS member. We regret that we did not have this information when the photo was published.

ABOUT THE COVER

This month's cover photo was sent by Gil Norris, Rock Island, Illinois. specimen. from his collection, is the Mississippian bryozoan Archimedes sp. and is from Alabama.

DINOTOUR 1995 TEXAS DINOSAURS - FROM BEGINNING (TRIASSIC) TO END (CRETACEOUS) sent by Leslie Adler, Calgary, Alberta, CAN

Philip Currie, Head of Dinosaur Research at the Royal Tyrell Museum in Drumheller, Alberta, CAnada, will lead Dinotour's nene day trip to museums, labs, quarries and sites throughout the State of Texas. Highlights will include:

- Triassic dinosuars of northwestern Texas (Texas Tech U. at Lubbock with Dr. Tom Lehman)
- Cretaceous dinosaur footprints and tracksites (Glen Rose, Austin, F6 Ranch, Fort Stockton, assisted by Dr. James Farlow)
- Big Bend National Park (where the giant pterosaur, Quetzalcoatlus, was found, assisted by Dr. Barbara Standhardt & Dr. Tom Lehman)
- Cretaceous dinosaurs in north central Texas (Fort Worth/Glen Rose, assisted by Dr. Louis Jacobs)
- Natural science museums in, Lubbock, San Antonio, Austin, Waco & Fort Worth

The tour begins in Lubbock, Texas, on Friday, April 21, 1995, and ends in Dallas Sunday, April 30. Cost in U.S. is \$1,074 (dbl), and \$1.275 (single).

Deposit was due December 1, 1994. Contact Dinotour, c/o 12231 Lake Fraser Way S.E., Alberta, CANADA T2J 3T2. Bill (403)239-6454 or Corliss Morre (403)271-2350 (evenings) to see if there are still openings.

Volume 18

MAPS NATIONAL FOSSIL EXPOSITION XVII CRINOIDS

April 7, 8, and 9 are the dates for the 1995 MAPS EXPO. This month's issue of the Digest includes all the information you need for registration and hotel and travel arrangements. Tables will be limited to 2 per family/membership this year and MAPS members will be given priority until March 1. All tables were sold out last year, and we won't have an extra room this year, so Get your reservations in early!

See Page 8 for registration form.

ADDRESS CHANGES, UPDATES, DUE FEB. 15

If you have any changes that you want to appear in the Directory Update, you must get that information to the **Editor** by February 15, 1995. And please send it as soon as possible.

It was voted at the 1993 EXPO to print only an update to the Directory in 1995, and every other year thereafter, because of the expense.

DUES HAVE RISEN

As was voted on at the 1994 EXPO, dues are now officially \$20 per year for U.S./Canadian memberships. Overseas memberships are \$20 for surface mail or \$30 for airmail. Library/institution rates are \$25. Rising postage rates and costs of the EXPO Digest/Directory made the raise necessary.

1995 OFFICERS

The following slate of officers was elected to serve for 1995:

PresidentGil Norr	is
1st V. PLyle Kugle	er
2nd V. PAllyn Adam	ns
SecretaryAlberta Cra	
TreasurerSharon Sonnleitne	er
Director (97)Blane Phillip	

The other two Directors are:

Tom Walsh (95). Roy Gustafson (96)

ADVERTISING SECTION

Ads lines x 1 are \$5.00 per inch (6 column--43 spaces). Send information and checks payable to MAPS to: Mrs. Gerry Norris, 2623 34th Avenue Ct., Island, IL 61201. Phone: (309) 786-6505. is a \$5.00 size. <u>This space</u>

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 up to 8 lines by 54 spaces can be printed in smaller type to fit a 1" space.

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18 Barker Ave., Toronto, Ont.
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DINOSAUR SEQUENCE ISOLATED?

by David J. Kaplan, Ph.D., Div. Chem. Toxicology, Wayne State University, Detroit, Michigan

The following report deals with information obtained from a recent scientific journal "DNA article entitled sequence Cretaceous Period Bone Fragments (Science. vol 266, Nov. 18, 1994, pages 1229-1232; authors Scott R. Woodward, Nathan J. Weyand Bunnell)." This Mark report also includes information from the research news section (page 1159 of the same journal) by Ann Gibbons dealing with this paper.

A brief summary of the paper indicates that Scott Woodward (Brigham Young University, Provo, UT) and co-authors have obtained 9 DNA sequences of 174 base pair length from two relatively large bone fragments (80 million years old) found in sandstone matrix from the roof of a coal mine bed in the upper Cretaceous Blackhawk formation of the Mesa Verde Group, Eastern Utah. They utilize the technique of PCR (polymerase chain reaction) to amplify the micro quantities of DNA that were in these bones levels where they could then be and read through conventional sequenced the sequences techniques. All obtained using an identical set of primers. (Identical sets will often amplify the same region of DNA for a number of different organisms providing that these sequences are not too evolutionary diverse.) Primers short DNA fragments that will recognize and bind to specific DNA sequences from where the PCR reaction or polymerization can proceed to reproduce a new DNA strand. Use of two different primers for opposite strands of the DNA double helix will then allow for a reproduced copy of the double strand DNA sequence located between and sequence stretch of the including the Numerous cycles of the process primers. lead to amplification of the original DNA In this case they amplified and template. sequenced a DNA region corresponding, but identical to, the region (base #s 15,603-15,777) of the human mitochondrial gene cytochrome b. Comparison analysis of the consensus read out of these sequences to sequences in two genetic data banks demonstrated that they vary equally 30% from both mammalian-reptile and bird DNA sequences for this region of cytochrome b; to a number of puzzling variation scientists since they suspect dinosaur DNA

to be closely related or homologous to avian DNA. Woodward and co-authors. however, indicate that this limited region of the gene encoding cytochrome b may be too short for use in phylogenetic analysis of distantly related organisms. In other words, more regions of cytochrome b or other evolutionary conserved genes should sequenced to determine the full degree of variance. For purposes of comparison. should be noted that 174 bases is a relatively short stretch of DNA and represents only 0.000006% of the human genome!!!

It is important to note that no official statement in that paper is made as to these whether two bone fragments (20cm/6cm/3cm & 20 cm/2cm/1cm)definitely dinosaur bones. It is inferred only in part to the large size of the bones obtained from the upper Cretaceous period and the fact that Scott Woodward is convinced that the DNA is very old and is "likely" to be from a dinosaur. Scott is being conservative in his Woodward paper; a policy which is consistent with the work he has done with these two bones which I feel (as a scientist myself) has been done very will. His work on this highly detailed. project was extensive and clean and included numerous and necessary scientific controls which in my opinion has eliminated contaminating DNA sources as the source of the reported DNA sequences. Some people do feel, however, that these sequences may come from a microbe that was already present in past and this both bones from the contamination. therefore represents а remains a possibility, it this should be noted that the PCR primer sets used in Woodward's experiments did not amplify a number of different bacterial DNAs tested and therefore eliminates at least some groups of microbes as possible Woodward and co-workers feel culprits. furthermore that some of the variations that exist between the 9 different PCR sequences are at least due in part to some degradation of the DNA that occurred over time that the **PCR** enzyme and misincorporates the wrong base(s) in the damages portions of the DNA helix. It is conceivable that this may account for some variability seen between the the ("average") consensus DNA sequences obtained from the bones and the mammalian/reptilian and avian DNA sequences they were compared to.

bottom line of Woodward and co-authors' work, which also includes my opinion as a research scientist, is this: (1) Their extensive and clean work as reported leads believe that there is to and observable chance) possibility (i.e. that they do indeed have some bona fide dinosaur DNA sequence (albeit the discontinuous). Eliminating possibility of a strange anomaly or some incipient microbial contamination that should permeate large sections of both bones (the two bones may be from two species different individuals or dinosaur). Woodward and group may be one of first the ones to report dinosaur sequence. (Possible T. Rex DNA has also reported from at least two different groups previous to this. The two groups and Cano & are Schweitzer & Horner This of course may also require Poinar.) t.hat. the bones they used are definitely from dinosaurs. From their size they have a good chance of coming from a dinosaur. possibility the Nevertheless. in support of his work. acquiring further Woodward 18 dividing up fragments of remaining bone to send to other labs for verification. (2) Again the variability in PCR the sequences from present dav reptilian. and especially avian, sequences should not immediately lead one to conclude sequences are not dinosaur that these Again we are dealing with a sequences. comparison of a limited sequence stretch (somewhat damaged) for only one gene in a field of thousands of genes in the genomes of the compared organisms. We do not know. furthermore, how close genetically the related dinosaurs are to the birds. although we do know there is a strong general morphological relation. (3) Amber proven has to possess been properties and it has been a preservative good source of stretches of DNA sequence for a number of ancient organisms. The search for dinosaur DNA in amber, however, a difficult process since it the indirect approach of acquiring requires DNA from blood sucking insects

whose last meal might have been derived from a bird or rodent. The DNAs derived may be, if not degraded, a mix of insect and non-dinosaur DNA at best. (There is however, possible of relatively intact Dinosaur white blood cells from where DNA can be isolated.) Although. utilization of dinosaur bone would be a more direct process to acquire dinosaur DNA, this tissue is more subject degradation during the fossilization DNAs would probably deteriorate process. durina the first moments of the fossilization process, geologically Woodward's work, speaking. however, was done on internal sections of very well There was no preserved dinosaur bones. indication of replacement of the organic substances by inorganic minerals which occur during permineralization associated fossilization. The bones used, furthermore, had a 2:1 ratio of calcium to phosphate and no detectable silicon and aluminum. a composition similar to that of contemporary bone. This seems to reveal the presence of well preserved bone.

In conclusion, it should be noted that the difficulties in Woodward's work reveal the colossal effort that would be required to sequence just percentage of total а DNA if it were available. Even dinosaur human genome, which is most for the available, readily we have sequenced roughly only 1% at best and even this has involved thousands of researchers (including myself). Hypothetically, even we were handed a full dinosaur genomic sequence on a platter, there would be the great difficulty of overcoming the hurdles chromosome construction, producing a viable egg, ensuring the development as survival well. as of the developing The reality of Jurassic Park. embryo. therefore, remains in the arena of science fiction at this point. But because there is science, there is the possibility. At this time, however, we can only dream.

ADVERTISING SECTION



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

Nicholas Angeli 1715 Stemwood Way Fenton MO 63026-3024 314-249-7768

John H. Bernard Shelloak Route 3, Box 74 Crossville, TN 38555 615-484-7167

John & Susan Brewer P.O. Box 821 Lebanon OH 45036 513-583-5230

Paul L. Burdeno 515 Tamarack Court Lompoc Ca 93436

Gary H. Burgess 16513 Pollack DR KPN Lakebay WA 98349 206-884-3234

Jim & Cindie Connett Erin & Kelsey 2027 Main St. Alton IL 62002 618-465-9334

Carl J. Cook 1904 Santa Fe St. Charles MO 63303-5122 314-949-2614

Alma Damrow 1014 W. Hwy C Mosinee WI 54455 715-457-6634

Carolyn Dohme 1418 Westbury Drive Hoffmann Estates IL 60195 708-358-4160

Cecilia E. Duluk 6700 Ambov 313-278-9109

Elsie Gualco 1427 Central Av Kemmerer WY 83101 Refrigeration Mech. Will trade. Early life, problematic, stromatolites, Cambrian fauna. Nothing for trade now. Member MO Soc. of Paleo. Wants better access to information.

Specimen sea shell dealer. Also interested in fossils.

Manager of Medical Device Manufacturing. Will trade. Major interest Ordovician fossils. Has for trade many examples of Ordovician fossils. Want to learn more about fossil collecting throughout the U.S.

Will trade. Major interest Midwest fossils, dinosaurs. Member of Eastern MO Soc. for Paleo. Want to contribute their ideas and time to MAPS.

Respiratory Therapist. Will trade. Major interest cleaning & preparing fossils for display. Will trade services of fossil preparation for fossils. Member of Eastern MO Soc. for Paleo. Wants to network, gain exposure to a greater number of fossils & collectors, and increase and broaden his knowledge of fossils.

Legal Assistant/Typist--Home Office. Will trade. Major interest Echinoderms (Crinoids); Inverte-Dearborn Heights MI 48127-3966 brates; Educational Materials and books on fossils; phylogeny and evolution of life. Member of Paleo. Soc. Wants to get back into sharing info on fossils and attending MAPS EXPO.

Wife of J.J. Abello.

Mike Harrell P.O. Box 661 Spring TX 77383

John Kopchik 1418 Westbury Drive Hoffman Estates IL 60195 708-358-4160

Greg Kuss 356 Highgate Ave. Worthington OH 43085 614-885-3051

Jeff Lane 6-2814 Bloor St. West Toronto, Ontario CANADA M8X 1A7 416-239-3467

Steve LoDuca 5868 Willowbridge Rd. Ypsilanti MI 48197 313-487-2986

Steven Makara 5192 Sparrow Dr. Huntington Beach CA 92649 714-894-5224

Allen Marquette 924 10TH ST IDAHO FALLS ID 83404 208-524-9161

Craig Neitzel 1529 Alima Terrace LaGrange Park IL 60525 708-354-2334

Greg Wilson 2350 Foster Ave. Grand Rapids MI 49505 616-364-6966

Shunxin Zhang Dept. of Geology & Mineral Res China University of Geoscience 2 9 Xuwyuan Road BEIJING, CHINA 100083

Publisher. Will not trade now. Major interest dinosaurs, shark teeth, trilobites, amber, plants, insects, and fish. Just getting started (94). Wants to further knowledge and meet collectors for possible field collecting.

Has own Business. Will trade. Nothing for trade at present. Member of Dry Dredgers. Wants to gain access to more locations for finding fossils and meet the people associated with that.

Graphic designer. Interested in collecting all types of fossils. Planning to open a store specializing in the retail sale of fossils in Spring, 1995.

Paleontology Proffessor at Eastern Mich. Univ. May trade. Major interest trilobites, graptolites, noncalcified algae. Wants to share his interest and knowledge of fossils with others.

Postal Clerk. Major interest Trilobites & other Paleozoic arthropods. Interested in MAPS Digest.

Paleontology. Will trade. Major interest insects, plants, all types of fossil collecting, preparation, and study. Has for trade fossil leaves, cones, flowers, insects, fish (museum quality). Wants to share knowledge, information and collecting of fossils worldwide.

Painter. Will not trade yet. Major interest Pleistocene mammals, trilobites and any or all extinct reptiles. Makes a chocolate candy "fossil" product called TRILO-BITEStm. Loves fossils and wants to know about places to go to collect and buy them.

Geology Instructor--Grand Valley State Univ. Will trade. A geomorphologist who is renewing an old interest in fossils. Department curator at GVSU.

PLEASE NOTE THE FOLLOWING CHANGES OF ADDRESS OR CORRECTIONS:

James Brubaker 3705 9th St. Apt. 215 Rock Island IL 61201 309-786-3034

NATIONAL FOSSIL EXPOSITION XVII

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 7, at 8:00 a.m.

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EXPO HOURS:

Friday, April 7 - 8:00 a.m. - 6:00 p.m. Saturday, April 8 - 8:00 a.m. - 5:00 p.m. Sunday, April 9 - 8:00 a.m. - 3:00 p.m.

(Many people leave early Sunday)

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

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

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

Macomb area code - 309

Macomb zip code - 61455

(prices subject to change) Starr Motel - Hwy 67 S and 136 E Time Out Motel - Hwy 67 North 1507 E. Jackson Rd. 837-4817 837-4838 311 University Dr. Single \$25.00 Single \$26.00 2(one bed) 29.00 (per night) 25.00 (per night) 2(one bed) 32.00 (plus tax) 2(two beds) 35.00 (plus tax) 2(two beds) 3(two beds) 35.00 3(two beds) 35.00 4(two beds) 38.00

Holiday Inn - 1400 N. Lafayette - 833-5511 or 1-800-HOLIDAY \$47.00 Each additional up to 6: \$6.00. Single 47.00 (plus tax) King

Travel Inn -	Hwy 136 W.		<u>Super 8</u> - 313 l	Jniversity Drive	:
833-4521	1414 West Jackson		836-8888	(Price includes tax)	
	Single	\$26.00		Single	\$40. 93
(per night)	2(one bed)	30.00		2(one bed)	45.37
(plus tax)	2(two beds)	35.00		2(two beds)	50.92
	3(two beds)	38.00		3	53.14
	4(two beds)	38.00		4	56.47

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

Union - Contact Allyn Adams, 612 West 51st St., Davenport, IA 52806 (319-391-5443) to see if rooms are available. If rooms are available, send payment, payable to MAPS to Allyn Adams.

DO NOT CONTACT Western Illinois University. These rooms must be rented for both Friday and Saturday. You must request rooms early and pay for them before March 15, 1995. You may wish to be on standby.

Single Double

\$65.50 (weekend)

3 people 4 people

\$ 101.02 (weekend) 111.00 (weekend)

91.02 (weekend) Children 10 or Under

\$1.50/night

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

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

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

Expo REGULATIONS

Everyone is requested to make advance registration by March 30, 1994.

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

ALL TABLES WILL BE ASSIGNED. Cost of the tables is \$15.00 each for a 6' table in the Ballroom for the weekend; \$15/table in the Lobby. (Lobby tables will be used only for overflow.) MAXIMUM of 2 tables per family/membership initially. Over 2 tables wanted? You may request extra tables, and if they are available you will be notified after March 15th (pay for these at EXPO). Requests for extra tables will be filled in rotation—one table per person per round until all space is gone. Also, those with special needs for more than 2 tables may apply to the Board by March 1 for an exception. All decisions will be made as soon as possible, with all decisions made by March 7. MAPS memberships will have first chance at all tables requested before March 1.

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

<u>DISPLAYS.</u> EXPO is special because of displays. They are a gift. They give us all a look at the ancient epochs of the world. Display tables are provided at no cost - 8 ft. limit. Bring your own lights, if you need lighting.

ALL RESERVATIONS WILL BE ACKNOWLEDGED

OTHER ACTIVITIES. CRINOIDS will be this year's theme. Keynote Speaker will be Dr. Thomas Guensburg, Rockford, Illinois. His Friday night speech is entitled "Early Crinoids." A live auction will follow a short business meeting and awards presentation on Saturday evening. Proceeds go to a geology scholarship. Everyone is asked to provide a quality specimen, with full data and the name of the fossil donor. Specimens can be left at the information desk until 3:00 p.m. Saturday. If you wish to mail a specimen, send it with pertinent information to Paul Rechten, 7405 Shields, Harvard, IL 60035. Paul will send a postal acknowledgment on receipt of specimen.

Show Chairman...Gilbert Norris, 2623 34th Avenue Ct., Rock Island, IL 61201...(309) 786-6505 Co-Chairman...Allyn Adams, 612 W. 51st Street, Davenport, IA 52806.......(319) 391-5443 Table Reservations..Karl Stuekerjuergen, 1503 265th Ave, West Point, IA 52656.(319) 837-6690 Auction...H. Paul Rechten, 7405 Shields, Harvard, IL 60035.......(315) 943-4178 Publicity...Tom Witherspoon, Sr., 6611 Miller Road, Dearborn, MI 48126......(313) 582-3139 EXPO DIGEST editor...Maggie Kahrs, 9145W U.S. Hwy 50 East, Seymour, IN 47274..(812) 522-6093

John & Gloria Cornish 40 CEDAR GLEN LN PORT ANGELES WA 98362 360-457-7630

Luis De Los Santos P.O. Box 4147 Ontario CA 91761 909-355-9860 H 909-355-9860 W

Walter Drabek 201 Tiffany Lane Lancaster NY 14086 -685-0438

Mark B. DuBois 116 Burton Street Washington IL 61571-2509 309-444-2999

Gary Eichhorn 3517 S. Cook Spokane WA 99223 509-533-0754

Eugene F. Hartstein 9 Verbena Dr Newark DE 19711-6207 302-234-4488

Mrs. Margaret Kahrs 9145W US HWY 50 EAST SEYMOUR IN 47274 812-522-6093

Steven Marhut & Tina Marhut 34 N. Albert St. Mt. Prospect IL 60056-2551 708-577-5376

L.G. Milton Jr. 4129 Trevor Circle Durham NC 27705

Michael & Teri Reagin 3494 Antisdale Avenue Cleveland OH 44148

Dan Rokosz 4832 S.E. Ogden St. Portland OR 97206-8352 503-774-5763

C. Douglas Rorex 1117 Keiffer Drive Olney IL 62450 618-375-9271

Robert J. Smith 8316 11th Ave NW Seattle WA 98117-3339 206-296-5505 Entomologist specializing in ants (systematics and biology.) Interested in fossil ants and other fossil insects. Will trade.

Director of Animal Care. Membership chair NC Fossil Club. Will trade. Interested in all types of fossils. Interested in other sites and info from members. 919-471-6361

Photographer. Has for trade Cenozoic fossils of OR and WA from many localities. Active field collector. Wants to correspond with other fossil folks. Always learning things about fossils.

TO NE REGISTRATION 1995 NATIONAL FOSSIL EXPO XVII-APRIL 7-8-9,

Please complete the form below, enclose a check payable to MAPS, and mail to Karl Stuekerjuergen, 1503 265th Ave, West Point, IA 52656, before March 15, 1995. NAME:

(STATE ZIP
PHONE NO. : (CITY ST
N AME :	ADDRESS:

Check enclosed: **\$_____(Only send payment for up to two tables per person**; any extras assigned through request will be paid for at time of notification or at EXPO.) MAPS Cost is \$15.00 per members will have first chance at all tables requested before March 1. I request 1 or 2 (circle) 6 ft. tables for selling and swapping. table. 2 tables per family/membership maximum.

Number of chairs I will need.

Will you help run EXPO?
Front desk--Fri_a.m. p. Sat_a.m. p. Sun_a.m.

Elevator--Friday: 8-9, 9-10, 10-11, 11-12, 12-1, 1-2, 2-3, Sunday: 11-12, 12-1, 1-2, 2-3

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

The Mid-America Paleontology Society (MAPS) was formed to promote popular interest in the subject of paleontology; to encourage the proper collecting, study, preparation, and display of fossil material; and to assist other individuals, groups, and institutions interested in the various aspects of paleontology. It is a non-profit society incorporated under the laws of the State of Iowa.

Membership in MAPS is open to anyone, anywhere who is sincerely interested in fossils and the aims of the Society.

Membership fee: One year from month of payment is \$20 per household. Institution or Library fee is \$25.00. Overseas fee is \$20.00 with Surface Mailing of DIGESTS OR \$30.00 with Air Mailing of DIGESTS. (Payments other than those stated will be pro-rated.)

MAPS meetings are held on the 1st Saturday of each month (2nd Saturday if inclement weather). October & May meetings are scheduled field trips. The June meeting is in conjunction with the Bloomington, IN, Gem, Mineral, Fossil Show & Swap. A picnic is held the fourth weekend in July. November through April meetings are scheduled for 1 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 April, May/June, July/August/September.

President: Gilbert Norris, 2623 34th Avenue Ct., Rock Island, IL 61201

1st Vice President: Lyle Kugler, 612 8 E. 3rd St., Aledo, IL 61231

2nd Vice President: Allyn Adams, 612 W. 51st Street, Davenport, IA 52806 Secretary: Alberta Cray, 1125 J Avenue NW, Cedar Rapids, IA 52405

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

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



FIRST CLASS MAIL

MID-AMERICA PALEONTOLOGY SOCIETY

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

Dated Material - Meeting Notice