

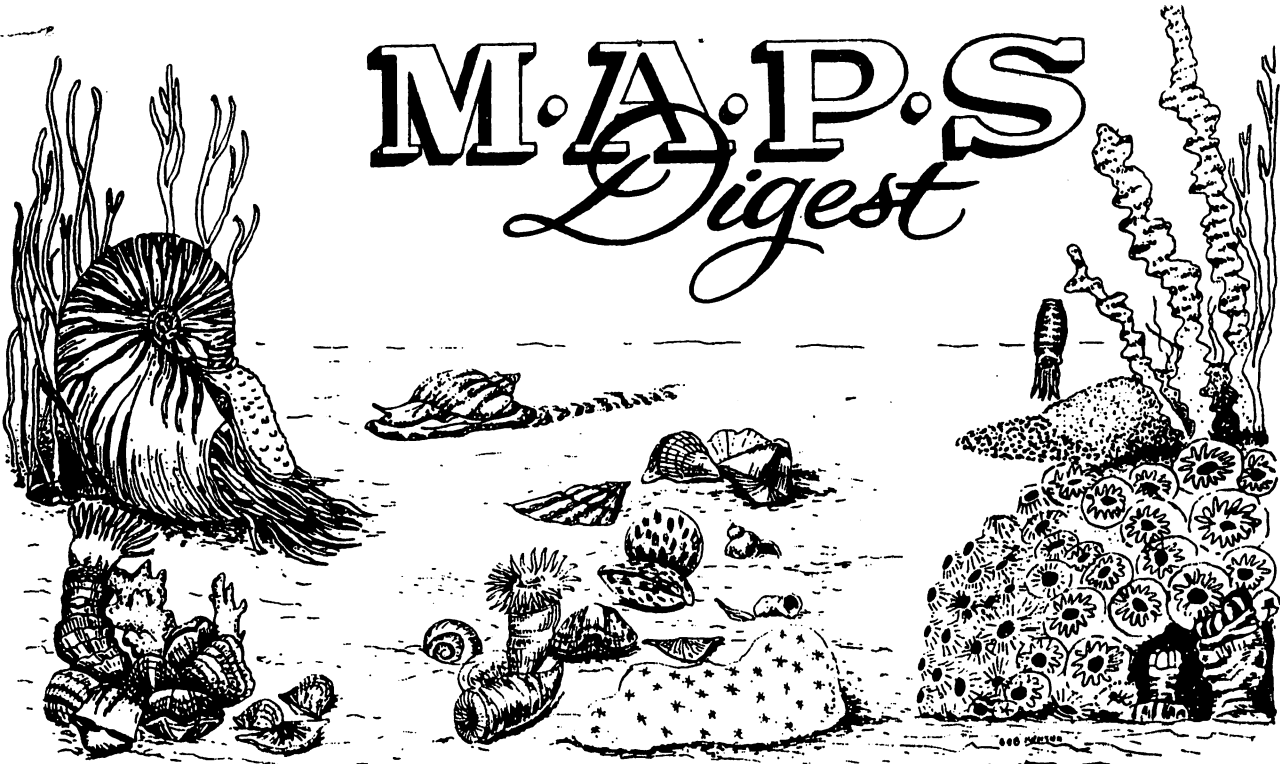
M.A.P.S Digest

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Official Publication of
Mid-America Paleontology Society

October, 1982

ANOTHER BEGINNING

Although MAPS fiscal year does not begin until January another Fall has rolled around and with it the fifth year of Digest publishing begins.

How right there is a field trip in process as the Digest goes to press. They are out in Western Iowa looking for Mississippian fossils and microfossils. Weather--superb!

and so--LET THIS YEAR BEGIN!!

If you are new to this beautiful organization--MAPS--there are a few things you will want to know. If you are an old 5,4,3, or 2 year member, you may have misplaced some of the following information:

MAPS members may purchase beautiful name tags from: Fred S. Farrar
Rte. #2 Box 295
Poplar Bluff, MO 63901
314-686-2130

The club logo, Cyathocrinites is beautifully displayed in white on a blue background. COST -- \$2.50.

NOVEMBER EDITION look forward to many publication suggestions--no room in the inn this month

The Board is in the process of deciding on the size and shape of a new patch to be worn with great pride on any item of clothing you desire. More about that in the November issue.

Local meetings are held at Augustana College, Fryxell Museum, the first Saturday of each month October through May. Should anyone be in the vicinity, please do join us for educational meetings and coffee at a local restaurant after the meeting.

(continued page 2)

MARK YOUR CALENDARS

2 Oct MAPS Meeting -- Augustana College
Rock Island, IL

1:00 p.m. Board Meeting
2:00 p.m. A Second Beginning -- Don named it. Bring some fruits of your summer hunting. Share not only the fossil but something about the area. You'll have an opportunity for a minute vacation others will have an opportunity to share your unique experience and see your treasures.

ANOTHER BEGINNING continued

There is a Digest mascot--Slincki Lincki. It is a real live treasure from the bottom of the sea!! It belongs to the phylum Echinoderm, class Stelleroidea, subclass Asteroidea. Linckia is a sea star. It is one of 1600 living species, asexual, found in the Pacific and other parts of the world. Meet Slincki Lincki.



Highlight of the year, of course, is EXPO--this year to be April 15, 16, and 17 at Western Illinois University, Macomb, Illinois. The best show anywhere anytime. Just attend one and you'll see.

SEDIMENTARY NOTES

HILDA & TOM MALONEY, semi-retired from Maloney's Fossils are building a museum behind their home in Willows, CA to house Hilda's beautiful collection. So many spectacular fossils but among the most awesome is Hilda's collection of skulls. One has to see it to appreciate it. Maloneys have been fossil dealers for some 30 years. They started out with minerals and very early switched to fossils. For many years they were the only fossil dealer at shows across the nation. If you happen to be in northern California a side trip to their museum would be worth your while.

Pac Man, I know it couldn't possibly be Slincki Lincki, must be eating up some of the US mail. DIETER GEBAUER, West Germany, is, I hope, convinced by now there really was an April EXPO edition. There seem to be at least 3 little hot spots in the mail distribution centers, (at least that is this Editor's experience) and then there's Pac Man. Hope your mail finally arrived, Dieter.

JOHN RIVERS, Rochester, NY is already making plans for EXPO 5. John suggests perhaps some guidelines could be set up for trading of specimens. Across the West as I travelled this summer this same subject came up several times.

DIANE DARE, Evansville, IN writes--Thought your members might appreciate an incident that occurred last month (June). We, with a group of 16 people from the Duneland Rock Club on a six-day trip to Bancroft, Canada, and one of our stops was at St. Mary's Cement Co. quarry near Bowmanville (Paleozoic sediments) to hunt trilobites, brachiopods, crinoids and other goodies--met a man in one area of the quarry who showed us some really fabulous trilobites and he then asked "Anyone here belong to MAPS?" He was Terry McDonald, of Islington, Ontario, Canada! Said he went collecting there quite often and had some good material, which he sells and/or trades. Never know where you'll meet another MAPS member!

LEE & LEVITA (still water runs deep) HODGES, Mission, KS have been busy this past summer attending first the Midwest Show, St. Paul, where LeVita displayed competitively. She says she didn't win the trophy but did take first place and thereby qualified for entry in the National in Houston where she did win a first place trophy. Congratulations!! LeVita is becoming interested in microfossils. Each year the Hodges have a beautiful case at EXPO.

MAGGIE KAHRS, Seymour, IN has been busy entertaining and taking friends hunting in the Silurian Indiana formations. Maggie is a delightful hostess. She reports that Dr. N. Gary Lane and Prof George D. Sevastopulo, Trinity College, Dublin, Ireland, had a display of micro fossils at the Bedford, IN Swap in August. Dr. Lane chose micro fossils because they needed work. There are thousands of them, he says and not too many people are interested in exploring them.

DR. N. GARY LANE, Bloomington, IN will again write for the Digest. His educational exhibit on the microcrinoids that he has been working on for the past 3 years were very much enjoyed by MAPS members attending the Bedford Swap. Perhaps some year he will be able to attend Expo so more can see his exhibit.

MRS. ELMER SCHNIEDEKNECHT, Montague, MI writes that she and her husband decided to give their 17" ammonite, Placenticerias and a 12" baculites in a concretion which they had collected in the field, to the Grand Valley State College, Geology Department, Allendale, MI.

"We decided that they were becoming too heavy for us to carry to shows as we have been doing

for the past 10 years. We knew that the ammonite was valuable, but hated to sell it, so we decided on the college. This way we could visit it whenever we so desired.

The ammonite has been displayed at most Midwest shows we've attended, so we have shared it with many people. Now we know it will be taken care of, and hopefully have many more admirers in the years to come..."

HARRELL STRIMPLE writes--you will be interested to know that GEOTIMES has listed maps in their directory in the August issue, p. 24. I judge this means the annual meeting and Exposition can be listed in their monthly directory of future meetings." This man has become an active promoter of MAPS in the professional world of Paleontologists. Many thanks for all your good work, Harrell. It's good to have him out there encouraging and reinforcing. Harrell will also again write for the Digest.

THE HAMMONS, Petersburg, TN like so many other MAPS members have been having lots of company all summer. Hammons live near sponge beds in a section of Southern Tennessee. Such generous people to share so many sites with professors, students and so many MAPS members. Ernie has the agility of a twenty year old and Onsbys apple pie make supper just great after an exciting day and an assortment of Silurian treasures. A trip hunting fossils with the Hammons means the-rest-of-your-life some very pleasant memories.

LLOYD AND METTA GUNTHER, Brigham City, UT are back in the desert this time on a National Science Foundation Grant for the Smithsonian. These two and their son, Val, are some of the hardest working people in the field one can imagine. Their harvests yield new species of Cambrian sponges, algae, and trilobites. Metta doesn't want to stop to cook. When you ask them what's at the foot of the rainbow their answer will not be a pot of gold. But be assured they found a treasure there. Mute testimony to their diggings can be found in University museums throughout Utah. Hopefully when winter arrives and fossil hunting wanes Lloyd will write something for the Digest. Meanwhile check elsewhere in this Digest for a reference to a Gunther publication.

DENNIS KINGERY, Rock Springs, WY and friendly competitor BARI SINES, also Rock Springs, WY

are fun and comfortable to be with. Dennis leaves frequent messages in the window of his beautiful fossil shop and then leaves on fossil forays with friends from coast to coast. Bari, knowledgeable and oh so generous with time and talents will help anyone, take you on her own fossil trips and introduce you to her animal menagerie. If you happen to be a petrified wood enthusiast Barri has a wood pile to end all wood piles. These two ooze Western hospitality.

ROZALINE JOHNSON, Napa, CA, pixie on the go, is often asked to judge at California shows. Her cases win ribbons, ribbons, ribbons. Bert goes too and introduces you to an international flavor of stories and experiences. Rozaline is producing her own fossil slide programs. (She even has a midnight special.) These two have traveled throughout Europe and Japan and have rich experiences and fossils to share.

JIM & SYLVIA KONECNY, Prescott, AZ have called to say they will be responsible for developing a slide presentation for MAPS on corals. If you have seen their beautiful cases at EXPO and traded for their Arizona materials you already know what is in store for you. Formerly of the Chicago area these MAPS members work with retired people and schools in the Southwest leading field trips, donating materials to universities and discovering new species. Many thanks, Jim & Sylvia, we look forward to the slide presentation on Coelenterates.

FROM THE PUBLICITY CHAIRMAN, R. W. Heinisch

MAPS would like to thank those persons and their respective publications who are assisting our publicity efforts. The list to date includes:

Mrs. Pansy D. Kraus, G.G., F.G.A., Editor
THE LAPIDARY JOURNAL

Mrs. Marie Huizing, Managing Editor
ROCKS AND MINERALS

Rosemary Anderson, Managing Editor
WORLD OF TREASURES & WESTERN AND EASTERN TREASURES

Renata Williams, Associate Editor
GEMS AND MINERALS.

Bob has been running ads in these magazines and you will note the response has been pretty good. MAPS continues to grow.

THE PROFESSIONAL'S CORNER -- Copyright, 1982

PERSPECTIVE AND CHALLENGE

Harrell Strimple
The University of Iowa
Department of Geology
Iowa City, Iowa 52242

There is such a diversity in the MAPS membership, that is, neophyte to research specialist, it is difficult to serve the needs of all. However, the Digest has been prepared in such a manner as to do just that. Basic information is imparted as well as reports on some of the very latest discoveries being made or ideas being proposed. There has never been anything quite like MAPS Digest all under one cover.

Another valuable aspect of MAPS is the annual Exposition. Certainly, these have been the most exciting displays of fossils and gatherings of private fossil collectors known anywhere to date. They provide for personal contacts between collectors and have attracted many professionals.

Meetings in the Quad-City area (Augustana College) have some fine speakers but, unfortunately, most of the membership reside too far away to enjoy this benefit. An Attempt is made to share the talks by reports in the Digest. Some of the talks cover research which has not reached publication.

An effort is being made by MAPS to produce a series of slide-programs covering various phyla of fossils. To date the Brachiopoda program has been completed. This endeavor has been led by Don Good.

My main effort has been to produce a series of articles on echinoderms which can be absorbed by the neophyte yet provide information for the advanced investigator. An effort has been made to remove some of the "mystery" of research. Most research is plain hard work and, hopefully, we make progress.

All of my life I have worked with amateurs but on a selective basis. My roots are that of a fossil collector and I know the potential afforded the scientific world by collectors. I also know the damage that can be done by careless or indifferent fossil collectors and that is a problem which bothers the professional field. Many, perhaps most collectors, can be reached with reasonable explanations of the scientific value of many, perhaps most, fossils which is the approach I take and advocate. There is not much that can be done about the "outlaws" except to attempt to block them whenever possible.

In any event, MAPS as an organization has now been recognized by the two largest professional organizations of paleontologists in the United States, which are the Paleontological Society (P.S.) and the Paleontological Research Institution (P.R.I.). The information recently published by a P.S. Newsletter is given here:

"The MID-AMERICA PALEONTOLOGY SOCIETY (MAPS) is an organization of amateur fossil collectors. They sponsor field trips, lecture series, shows for sale and trade of fossils and a newsletter (ten issues/yr). (Ed. comment--should read nine issues/yr). They have a membership of about 400, and therefore constitute a valuable resource in North American Paleontology. Those wishing to receive the newsletter, write an article for it, or otherwise make contact, should write to Madelynne Lillybeck, MAPS Digest Editor, 1039 33rd St. Ct., Moline, IL 61265. N. Gary Lane of Indiana University has been the P.S. liaison with MAPS. The Paleontological Society is exploring ways of strengthening the ties between private collectors and the scientific community. H. L. Strimple of the University of Iowa is the person to contact with new ideas." Newsletter #2, May, 1982.

You will notice there is an interest expressed on their part to make a closer liaison between private collector and professional. It should not be overlooked that professionals are dedicated to the promotion and dissemination of scientific knowledge. To oversimplify a complex matter many professionals are willing to help the amateur providing the amateur is willing to help them do their thing which is to report.

I am not fully aware of all the organizations and their functions in the country but will attempt to give some idea of some of the structure. In the geological field, the Geological Society of America (G.S.A.) is sort of the godfather and is

dominated by what I term hard-rock geologists. The Paleontological Society is affiliated and meetings are held jointly. Abstracts with Programs are issued by the G.S.A. along with the Bulletin, etc. In turn, there are regional sections of P.S. and they have meetings in the spring. The big annual meeting with G.S.A. is held in early winter. P.S. published a Memoir Series and Paleobiology as well as three issues of the Journal of Paleontology a year. The other three issues are published by the Society of Economic Paleontologists and Mineralogists (SEPM) whose affinities are with the American Association of Petroleum Geologists (AAPG). SEPM also publishes Sedimentology. AAPG publishes the AAPG Bulletins. Members in either P.S. or SEPM receive all issues of Jour. Paleo.

The P.S. is in process of consolidating their business office and related affairs with Paleontological Research Institution (PRI) in Ithaca, New York. PRI publishes Bulletins of American Paleontology and Palaeontographica Americana, as well as a Newsletter.

I am not up on Paleobotany or Vertebrate Paleontology but know there is a new journal on the latter being produced in Norman, Oklahoma. There is also an American Geological Institute which publishes GEOTIMES, which recently took over

THE VALUE OF FOSSILS

--

Dr. N. Gary Lane
Geology Department
Indiana University
Bloomington, IN 47405

I have been asked to make some comments on the monetary value of fossils. I'm afraid I am a very poor judge of what fossils are really worth because I have never engaged in selling them, although I have bought a few from time to time. As a matter of fact, I have never personally owned a fossil. All specimens that I have collected have belonged either to the University of Kansas, where I did graduate work, or to UCLA, where I used to teach, or to Indiana University, where I now teach. I have never had a real hankering to be able to call a specimen my own, as long as I had access to study the specimen. Consequently, I tend to value fossils based solely on their scientific worth, rather than on their rarity, their size, or their aesthetic appeal. I fully realize that a large, rare, beautiful specimen commands a high price, but if that specimen is of a well-known, named species and does not exhibit any unusual features deserving special study, then I tend to down-grade the monetary value of the fossil.

Concerning crinoids I have seen nice large crowns or heads priced at \$50 to \$100. These specimens are commonly of well-known forms and there may be hundreds of specimens available in university or museum collections for study. I would tend to say that such a specimen is overpriced. On the other hand, I have seen some really tiny crinoid heads that are virtually unique sell for \$1 because they are so small..

EARTH SCIENCE, and has numerous geological services.

In a recent letter from Art Boucot, past president of the Paleo. Soc., he mentioned his hope that more consolidation is made among various paleontology groups to stop wastage of resources in particular separate mailings, separate accounts, membership lists, etc. Everyone is having trouble meeting rising costs of printing, postage, etc.

The Paleontological Research Institution is unique in that they own their building and grounds, have a regular small staff, a large research library, a repository and several endowment funds. Membership is very loyal and supportive. Historically, they have interacted with serious amateurs more than have other professional organizations. MAPS member Philip Marcus belongs to P.R.I. and I am proud to be a lifetime member. There are probably other PRI members in MAPS. (Ed. comment--Dr. John Chiment, P.R.I. Staff has contributed articles to the Digest).

MAPS is in a position to attempt cooperative leadership in the amateur field and, in my opinion, should attempt to form some sort of close liaison with other fossil groups, whether amateur or professional.

I have snapped up such specimens for our research collections because they are rare and hard to find, and they commonly offer the unusual opportunity to study how the skeleton grows in fossil crinoids. I judge those specimens to be far under-priced.

The final thing I can say about fossil prices is: caveat emptor--let the buyer beware.

THE AIRBRASIVE MACHINE

Dr. N. Gary Lane
Geology Department
Indiana University
Bloomington, IN 47405

The miniature "sandblaster" known as the Airbrasive machine has been a boon for the preparation of fossils. This is, however, a cautionary message about the use of this instrument. Improperly used the machine can be dangerous to the health of fossils. I have seen specimens that were stripped or skinned or pitted by using the machine too long or with too hard an abrasive. Such specimens are virtually useless for scientific study. Surface sculpture or ornament may be completely obliterated unless special care is used in preparation. I don't believe that this has happened yet, but it is conceivable that new species could be described that really only differed by how they had been cleaned.

I know several professional paleontologists who now absolutely refuse to let the Airbrasive be used on any of the specimens in their care. I have seen museum and private collection specimens essentially ruined for study by careless preparation with the Airbrasive. If the machine must be used for preparation, one should use only the softest powders available. This increases preparation time but results in much less damage to the specimen. Another important point is

that all preparation should be done with magnification, either a low-power microscope or a large magnifying glass.

Good preparation of fossils is almost an art form. Like all true art there are good and bad practitioners. When examining fossils prepared by others with an Airbrasive you should always look carefully at the surface of the fossil with a hand lens to see if you can detect pitting or surface scouring.

SOLVING A PROBLEM.....MAYBE!!

From time to time we may collect or otherwise acquire a specimen that is pyritized, we think. But when we get it home and cleaned, it later develops white powdery spots on its surface: it's marcasite. And if left for a while, the white powder unites with moisture in the air producing an acid that will eat thru paper and wood. So eventually our specimen is reduced to a shapeless pile of soft white ash.

And this problem is not restricted to the US. One of our English members, Ken Machin, has been plagued with this on specimens he finds in a clay pit in Buckinghamshire, the Oxford Clay of Upper Jurassic age.

Ken has been experimenting, trying to save his specimens and has come up with a procedure that could be of help to many of us. These are his words, from a recent letter to me:

My method has been to soak for 2/3 days in fresh water, then a further 4/5 days in water containing a strong household bleach solution, a further 2/3 days in fresh water, then bake dry in the oven, and varnish.

I am now trying this method with some London Clay fossils from the Isle of Sheppey which are also notoriously difficult to preserve. I have preserved London Clay fossils previously and with success after a number of years by encapsulating in plastic, but this proved rather an expensive method so I have hopes for this new method."

Now back to my own words. If you don't want to varnish your fossil, I would suggest the use of an acrylic spray, such as Krylon Crystal Clean #1303, or Soluvar, a matte picture varnish. These both can be found in art supply stores. When using the sprays, three or four coats are advisable, letting the specimen dry well each time.

"Previously the traditional method of treating pyritized material has not yielded good results with fossils from this site and they have disintegrated within weeks. With the method I have used I have now had some of these fossils for nearly a year with little or no signs of disintegration. It's a simple procedure, and may be of help to some of us. Good luck!

Dick Johannesen
Augustana College
Rock Island, Illinois

YOU CAN DO YOUR OWN CLOSE-UPS

BY A. G. Zvirblis
Mountain Top, PA 18707

In my travels, I see many fossil collectors toting around good 35mm. cameras. Many of these collectors like to take photos of good specimens, dioramas, displays, and even other collectors. Most of these fossil hunters would like to have some really nice close-up shots of their own specimens or specimens encountered in a museum or at a show but don't have the money to buy a good close-up or macro lens. I think every collector would love to have a set of good quality slides of their own specimens to use in a slide presentation, at a meeting, or during a show, but have no way to get those really magnified shots.

Well, you're in luck! There are some very inexpensive gadgets that are designed to give you good quality magnification of your slides and prints. Rather than having to spend \$200 or more on a macro lens you can spend anywhere from \$8 to \$20 and obtain similar results.

First, you must have a 35mm single-lens reflex camera. Second, go to your local camera shop and ask for a set of simple close-up lenses. These usually cost about \$16 to \$20 and consist of three lenses of various magnifications resembling clear filters or magnifying glasses. They simply screw onto the front of your normal lens. No increase in exposure is required. You simply set your exposure as you would under normal conditions. The effect produced is magnification of an object. For example: An object the size of a pack of cigarettes, which would normally look small in your camera's viewfinder would, using close-up lenses, fill up the entire field of view in your viewfinder. When your slide or print is developed and returned, the pack of cigarettes is much enlarged exactly as you saw it in your viewfinder. The same effect is achieved using fossils, shells, coins, stamps, etc.

Another device, similar to a close-up lens set is a variable close-up lens. The variable close-up lens is constructed in such a manner that it can be turned or twisted to vary the magnification. These can be bought in any camera store for approximately \$20. They are a little easier to use than the set of three close-up lenses.

There is one other device that gives excellent magnification and clarity, it's called a "lens reversing ring." This is simply a thin metal ring. To mount it on your camera, you remove the normal lens from your camera, attach the reversing ring to your camera body, take your normal lens and reverse it, and finally reattach your normal lens to the lens reversing ring. Your lens is now backwards. This may sound a bit strange, but it does work and gives good magnification and excellent clarity to your photos.

One additional point on close-up photography is the importance of good lighting. The easiest method to use, is to set up your fossil in open shade on a bright day and simply check your exposure and shoot. The use of a tripod will hold your camera steady during a long exposure. You can also use a flash unit to photograph specimens indoors but you must be careful of your exposures. Floodlights are an excellent method for obtaining proper lighting indoors. Floodlights can be moved and adjusted to control shadows and to bring out intricate details of a specimen. If you are using floodlights, you'll need a tripod and a color correction filter to reduce the reddish hue caused by the incandescent lights (the camera store owner can help you).

If you do want to try close-up photography, it would be beneficial to you to obtain a book or pamphlet on close-up photography which will explain any questions that may arise. The Kodak Master Photo Guide, which sells for around \$10, gives detailed information on close-up photography using the previously mentioned devices.

By using these simple close-up devices and paying attention to detail, you'll be very surprised and pleased at your results. You may soon find yourself in front of an audience giving a slide lecture.

SHUTTLE REVEALS FEATURES

GEOTIMES -- August, 1982

Radar images taken last year during the flight of the space shuttle Columbia show geologic features beneath the Western Desert of Egypt and the Sudan and are a basis for research into the geologic and archeological history of the region.

After preliminary mapping and analysis of radar pictures, researchers at the U.S. Geological Survey reported that unexpected subsurface views of the Western Desert confirmed long-suspected features that are mostly invisible or undeciph-

erable, even in specially processed Landsat satellite images. The new radar pictures show abandoned river valleys, some as wide as the present Nile River valley, as well as river terraces, faults and other features.

As a result of the analysis, researchers have been able to trace former major integrated river systems. They also have confirmed that migrating dune chains tend to follow the ancient stream valleys.

Recognition of the old water-courses and bed-rock structure beneath the sands of the desert has far-reaching implications for exploitation and continuing research in the area. The shuttle's imaging radar could be a powerful new tool for mineral and water exploration and further archeological research in arid regions.

The Western Desert of Egypt and the Sudan is the center of the 480,000 square-mile hyper-arid core of the Sahara of North Africa. Rainfall there occurs at intervals of 30 to 50 years. Most of the region lacks vegetation.

However, its present hyperaridity may have been the key to unlocking the secrets of desert terrain through the radar signals sent by the space shuttle. Aridity probably contributed to the ability of the 23-cm wave-length signals to penetrate the extremely dry, loose surface sand.

THE PALEO-LOGGERS

Golden Spike News, April, 1982

A new club for petrified wood collectors is forming.

NEEDED: A serious study group (or club) devoted to those interested in the collection and study of petrified wood.

PROPOSAL: I propose the formation of a wood collectors club: Name: THE PALEO-LOGGERS
Membership: Open to any serious petrified wood collector, but with a focus in the Pacific Northwest.

Purpose: To promote the formation of petrified wood collections; the serious study of wood identification; the sharing and exchange of information among members and amateur paleo-botanists generally.

If interested, write to Steve Edmondson, 6202-48th Avenue E., Tacoma, Washington, 98443.

BULLETIN JUST RECEIVED--WARRANTS ACTION

Draft regulations dealing with the collection of fossils and minerals on the public land for hobby, commercial and scientific uses are open to public review and comment until October 18, 1982. The intent of this proposed rulemaking is to combine the collection provisions for petrified wood...and for hobby specimens...with the provisions for scientific collection of vertebrate fossils authorized under the Antiquities Act...three types of permit procedures would be provided, including a scientific free use permit, a commercial permit and a blanket authorization...would identify activities not requiring a permit and would clarify the limitations for collection of fossils and hobby mineral materials on public lands. Comments: Director (140), Bureau of Land Management, 1800 C Street NW, Washington DC 20240.

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

Ads may be placed in the Digest for \$3.50 per inch (6 lines). Send information and checks made payable to MAPS to:

Mrs. Gerry Norris, 2623 - 34th Ave. Ct.,
Rock Island, IL 61201 -- 309-786-6505

BRACHIOPODS PURCHASED: Individual specimens or stratigraphic collections of Paleozoic brachiopods wanted for private collection. I pay exceptional prices for exceptional quality. I am not interested in damaged material or seconds. Please write, giving description, locality and stratigraphic information on your specimens. All Paleozoic species are of interest.

STEVE TUFTIN, 370 E. 11th Avenue, #802
Denver, Colorado 80203

Judy Owyang

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Miami, FL 33175
305-221-4227

RICHARD P PATTERSON
Route # 6, Pleasant Ridge Rd.
Marietta, OH 45750

STEVEN J. PERRY
7472 Canal Dr.
Firebaugh, CA 93622
209-659-3093

CHANGE OF ADDRESS

CAROLE & MORGAN MARTIN, Jr.
6944 Evans
Houston, Tx 77061
645-7883

Geology Student. interested in sharks teeth, conodonts, trilobites, cephalopods, crinoids, fossil fish, plants, and just about any fossil a human can find. Will trade brachiopods and conodonts in shale.

Educator. Interested in Early Paleozoic echinoderms & Extant freshwater and terrestrial mollusca: Will trade freshwater bivalves. Enjoys writing scientific contributions.

High School Biology Instructor. Interested in Ammonoids, arthropods-all types, echinoderms-all types, fishes. Will trade fossils from most phyla.

Paleontologist. Interested in all phylum. Will trade fossils of virtually all types known. Wants to share an interest in fossils.

Service Inspector, Ben Franklin Whse. Interested in all invertebrates. Have various types for trade. Loves fossils.

Geophysicist. Interested in general stratigraphic groups. Will trade Pennsylvanian, Cretaceous, Eocene of Texas. Wants to be able to communicate with other fossil collectors.

Architect & Home duties respectively. Interested in graptolites, echinoderms & plants. Will trade but not on a regular basis due to a lack of time.

Teacher. Trilobites, oreodonts, fish. Will trade St. Clair fern fossils, trilobites, fish (Green River), various others. Wants to meet fellow collectors, exchange hunting locations.

Math teacher. Fossil horse skulls, sea scorpions, devonian fish, crinoids, trilobites, fossil skulls, large ammonites & dinosaur material. Will trade shark teeth, horse teeth, rhino teeth, mammoth teeth & other Florida material.

Interested in any articles regarding Braidwood/Essex fossils of northeast Illinois area.

Owner of San Benito Mountain mines. Interested in rare trilobites, crustaceans, vertebrates of any kind. Will trade Coalinga region fossils-mostly Tertiary marine fossils, sea-cow teeth.

JERRY J. CARTER
619 - 14th Avenue
Hampton, IL 61256

GUY E. PIERSON
P.O. Box 394
Neskown, OR 97149
503-392-3043

Black Opal dealer(Lighting Ridge opal mines) Interested in North Pacific Coast vertebrates (Marine especially) trilobites/arthropods, early mammals Cret-Pal) Will trade from the Astoria Fm. (Mid Miocene & duplicates from hunting trips around the west.

FRED & MARIAN RANCE
1609 W. Kensington Dr.
Peoria, IL 61614

THOMAS R. RICH
4 Outlook Hill
Salem, Mass 01970
617-744-8864

Sr. Research Engineer-Chemist/Geologist Trilobites, cephalopods. Enjoys all aspects of Paleontology-photographing & reproducing specimens. Will trade trilobites, cephalopods, invertebrates Exchange info on trilobites & locations

STEPHAN A ROOT
3312 Dorado Beach Drive
Farmers Branch, TX 75234
214-241-3525

Paleontologist-Mobil Oil. Interested echinoderms(particularly crinoids), trilobites, cephalopods, brachiopods. Will trade Cretaceous echinoderms, ammonites, bivalves, etc. Employed as a micropaleontologist but still interested in invertebrates especially Paleozoic

EDWARD J. RUTECKI
366 Pine Ridge Road
Buffalo, New York 14225

Machinist. Interested in silicified floral material from Jurassic (seeds-cones, buds, seed pods, seed fern hearts & sharks, ammonites, etc. Has a long list of trading material and will take take YOU hunting in his area.

RICHARD H. STEINER
722 Thomas
Worland, Wyo. 82401
307-347-3175

Gallery owner. Interested in trilobites. Will trade trilobites.

LAURENS & LORRAINE TARTASKY
P.O. Box 23
Hygiene, CO 80533
303-447-8588

Clerk for Stevedore Co. Interest not developed as yet. Nothing to trade as yet. My friends term me a "Rock Head" Has taken some courses and just loves fossils.

FRANK P TAORMINA
2138 - 69th St.
Brooklyn, NY 11204
259-8815 or 8786

Labor Relations Rep.-Ford Motor Co. Interested in Midwest fossils. Will trade Pennsylvania ferns, St. Clair fauna from Sylvania, Ohio, other materials.

EDWARD S. WILSON
39202 Dillingham
Westland, MI 48185
313-729-6247

Student. Interested in various fossils. Will trade shells and sharks teeth. Interested in fossils since a small boy.

TOM THARIN
24 Dixie Dr.
Ozark, AL 36360
205-774-8759

ULLRICH WEISS, Ph. D.
9411 Kingsley Avenue
Bethesda, MD 20814
301-530-1740

Research Chemist (organic), retired. Interested in Paleozoic fossils, animals and plants. Joining was recommended by Harrell Strimple, U of I. Wants contacts with people who share his interest.

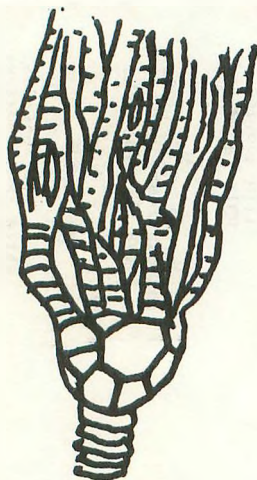
The Mid-America Paleontology Society (MAPS) was formed to promote popular interest in the subject of paleontology, to encourage the proper collecting, study, preparation, and display of fossil material; and to assist other individuals, groups, and institutions interested in the various aspects of paleontology.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

MAPS is affiliated with the Midwest Federation of Mineralogical and Geological Societies, and with the American Federation of Mineralogical Societies. Membership in MAPS is open to anyone, anywhere who is sincerely interested in fossils and the aims of the Society.

Family membership \$7.00; individual membership \$7.00; junior membership \$5.00 (between ages 8 and 16).

MAPS meetings are held on the 1st Saturday of each month (2nd Saturday if inclement weather) October through May at 2p.m. in the Science Building, Augustana College, Rock Island, Illinois.

President: Cheryl DeRosear, Box 125, Donnellson, IA 52625
 1st Vice President: Don Good, 410 N.W. 3rd Street, Aledo, IL 61231
 2nd Vice President: Doug Johnson, Box 184, Donnellson, IA 52625
 Secretary: Peggy Wallace, 590 So. Grandview, Dubuque, IA 52001
 Treasurer: Alberta Cray, 1125 J Avenue, NW, Cedar Rapids, IA 52405



CYATHOCRINITES

MID-AMERICA PALEONTOLOGY SOCIETY

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

Dated Material - Meeting Notice



FIRST CLASS MAIL

Mr. & Mrs. Allyn Adams
 612 W. 51st St.
 Davenport, IA 52806