

MICHIANA GEM AND MINERAL SOCIETY

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Scholarship..Catherine Biek	1111 N. Huey St., South Bend, In. 46628
Display.....	
Publicity....Pat McLaughlin	515 N. Clay St., Mishawaka, In. 46545
Membership...Members and Board of Directors	

The MICHIANA GEM AND MINERAL SOCIETY, a non-profit organization, is affiliated with the MIDWEST FEDERATION OF MINERALOGICAL AND GEOLOGICAL SOCIETIES and with the AMERICAN FEDERATION OF MINERALOGICAL SOCIETIES.

Regular Meetings

Time: 2:00 PM EST	Place: Westminster Presbyterian Church
Fourth Sunday of each month	1501 W. Cleveland Road
June-Field trip meeting	South Bend, Indiana
July-No meeting	West of the St. Joseph River
August-Annual club picnic	

Dues

Individual	\$ 6.50 per year
Family	10.00 per year
Junior	2.00 per year

Rockfinder Staff

Editor..Ed Miller	114 E. Logan Street
Staff...Club members	Argos, Indiana 46501

All contributions for publication should be in the hands of the editor by the 10th of each month.

Permission is hereby granted to reprint, at any time, items published in the Rockfinder, provided due recognition is given.

THE ROCKFINDER

VOLUME 30 NUMBER 4
 PUBLISHED BY: MICHIANA GEM AND MINERAL SOCIETY INC.

APRIL 1990
 SOUTH BEND, IN.

REGULAR MEETING:

SUNDAY APRIL 22, 1990

TIME: DOORS OPEN 1:30
 MEETING 2:00

PLACE: WESTMINSTER PRESBYTERIAN CHURCH
 1501 W. CLEVELAND ROAD
 WEST OF THE ST. JOSEPH RIVER
 SOUTH BEND, IN.

PROGRAM: BUSINESS MEETING

The title of this month's program is "Beads, Ancient to modern use". Our friend Doris Kemp will be here to educate us about the use of beads including fashion and fads plus collecting fascinating beads. Anyone who has set through a Doris or Russ Kemp program knows this will also be a delight.

HOSPITALITY:

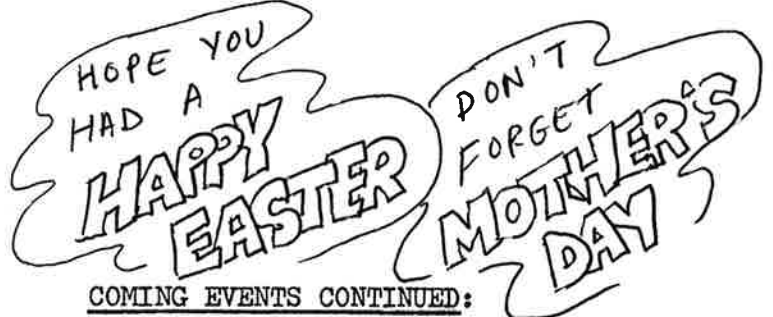
MARY MILLER
 SISTER JEANNE FINSKE
 SISTER GEORGIA COSTIN

COMING EVENTS:

APR. 20-22
 Mid America Paleontology Society
 National Fossil Exposition XII
 Western Illinois Student Union
 Macomb, Illinois

APR. 21-22
 Calumet Gem & Mineral Society
 17th Annual "Extravaganza" of
 Gems & Mineral & Jewelry Show
 Highland High School
 9135 Erie Street
 Highland, Indiana

APR. 27-29
 Blackhawk Rock Club



COMING EVENTS CONTINUED:

"Rockhound's Paradise" Show
 North Towne Mall
 3600 N. Main Street
 Rockford, Illinois

MAY 5-6
 Wabash Valley Gem & Mineral Society
 Inc.
 31st Annual Show
 Tippecanoe County Fairgrounds
 Teal Road
 Lafayette, Indiana

MAY 5-6
 Cincinnati Mineral Society
 26th Annual Gem, Mineral & Fossil
 Show
 Cincinnati Gardens
 2250 Seymour Avenue
 Cincinnati, Ohio

MAY 26-28
 Chicagoland Gems & Minerals Assoc.
 14th Annual Show
 DuPage County Fairgrounds
 2015 Manchester Road
 Wheaton, Illinois

JULY 19-22
 Midwest Federation Show
 Evansville Lapidary Society Inc.
 Green Convention Center
 7th & Walnut Streets
 Evansville, Indiana
 * * * * *

Thanks to Phyllis Smallwood for picking
 up items from Christine Shoemaker!

MINUTES OF MEETING, MARCH 18, 1990

Margaret Heinek, President, opened the meeting a few minutes after 2 p.m. There were 25 members present and two guests. Paul Godollei moved to accept the February minutes as published in the Rockfinder. The motion carried.

The Sunshine Report was given by Pat McLaughlin in the absence of Kathy Miller. She noted that Gertrude and Clarence Orrell would appreciate hearing from members of the Club; they cannot get to the meetings because Gertrude is having problems with her back and Clarence has had cataract surgery. Sister Jeanne Finske gave the Treasurer's report, which will be filed for audit. There was no Education Report.

Jane and Stan Kyle formed the hospitality committee; Joe Kossack was unable to assist them, having just left the hospital after knee surgery.

Paul Godollei reported that six of the missing books have been recovered, but several are still out. He also displayed a recently-purchased copy of Wonderful Life by Stephen Jay Gould. Books are still not being properly signed in and out, and the records continue to be confused. To straighten things out, Margaret asked that from now on she, Bob, or Paul should co-sign the takeout slips so that the Club will know where the books are, and that books be kept no longer than one month.

Pat McLaughlin, Pulicity chairman, reported that she had sent announcements to publications or Tv or radio stations, but that so far she was not aware of any of them being used. No other club members had seen or heard them either.

The newly-purchased copier has moved from Ed Miller's house to Margaret and Bob's. It has been properly installed by a workman from the company and is working very well. It takes various sizes of paper, and with some additional equipment will print in color. Toner and a master are needed. Mary Miller moved that Margaret be directed to purchased these; Stan Kyle seconded and the motion carried.

Margaret reminded the group that the Club is trying for All-American status this year. Sister Georgia Costin will keep the scrapbook, but the cooperation of all members is absolutely essential.

Margaret told the group that Christine Shoemaker must get rid of the kiddies' wheel before she leaves town, Roberta Bodan has rocks and equipment to donate in memory of her father, Kenny Stout has delivered 13 cases of rocks to Margaret's house, Bob Miller would like to get the sandbox out of his garage, and much other equipment is scattered among various members. She therefore suggested renting a 5x5x7 storagespace. his can be done in New Carlisle for \$15 a month. The Twelfth St. Storage in Mishawaka was also recommended. Mary Miller moved that Margaret be directed to find a suitable storage facility; Jessie Zeiger seconded and the motion carried.

The Kyttas mentioned having seen Bess Wise, who says that her husband Jess is in serious condition. Cards or notes of the "Thinking of you" variety would be appreciated.

James and Sherry Russell are to be added to the membership roster.

The Heineks and the Bob Millers will be attending the Midwest Federation meeting in Cedar Rapids.

Door prizes were won by Viola Robinson and Ossie and Jo Kytta. No junior members were present.

Sister Georgia Costin
Secretary

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From the March 1990 MWF
NEWSLETTER



WANTED: A FEW GOOD PROGRAMS



it is not too soon to work on entries for 1991.

The Program Contest gives individuals and Clubs a chance to earn national recognition for slide and/or video presentations on subjects related to our hobby. All Clubs appreciate good programs. Clubs who use programs from Federation Program Libraries especially appreciate access to presentations worthy of national recognition.

If you or your Club have recently put together a Program worthy of such competition, please enter it in this year's contest. If you are making or plan to make such a program this year, write now for the guidelines (rules) or even submit it for a critique.

For full details contact either:
Margaret Pearson, A.F.M.S. Chairperson,
9034 W. Lisbon, #24, Milwaukee, WI 53222
OR M.W.F. Program Library, [(313) 722-6043]
3490 S. Hannan Rd., Canton, MI 48188

MARGARET'S COLUMN

I hope you had a pleasant Easter. It seems it has taken a long time to greet Spring, what with the snow showers and cold waves we have every few days. Oh well, we will be into Summer before we know it.

Be sure to attend the meeting this month, as we will have a very interesting program given by our friend from South Holland, IL, Doris Kemp. I know some of you remember some of the programs Doris and Russ have given us over the years. So come and hear about the history of bead making.

Bob Miller, Bob and I have been very busy picking up and sorting some really super donations made to the club by a former member Roberta Bohdan. Roberta is the child of two members, Joe and his wife Leota Jochim. The donations, which we have sorted and some will be used for door prizes, some silent auction, some will be used in the Midwest Federation display in Ventura, California and some will be in the kiddie's corner at the coming show. The rock belonged to her father. We also have some good machinery of Joe's and also some that belonged to Roberta. The machinery is to be sold, we will retain some of the money for the club. Bob has made a list of the items for sale, and we will have the list and prices at the club meeting. Most of the items are new, and the others are in good condition. She also sent 2 display cases, and I know several of the members spoke up at a past meeting, when we had one for sale. Interested? They are \$15.00 each.

We have rented the storage area and were able to store some of the boxes of rock donated by Kenneth Stout, Roberta and the items belonging to the Kiddies Corner which Chris Shoemaker had at her house. The machinery & cases are in our garage, but hopefully they will be sold soon.

Bill and Marie returned from their month long vacation, and gave us excellent news on the dealers for our 1990 and 1991 shows. The dealers who have responded for the 1991 show are excellent.

Speaking of shows, I still need some of you to chair some of our booths at the 1990 and 1991 shows. Please come forward and tell me

where you will be willing to work. You know we need help, with the door, club booth, kiddies corner and next year we will have to assemble decorations to be used at the dinners and luncheons. I know there is a lot of talent in the club and I hope to use it. Don't be bashful, come forward with ideas and help.

See you at the meeting.

Margaret

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WHEN THE EARTH SHAKES

It was late afternoon, March 27, 1964. Above Alaska the sky was the color of lead, and in some places a light snow fell. Anchorage, the biggest city, lay quiet, for this gray day was both Good Friday and the eve of Passover.

This was the introduction to an account of the mighty earthquake that hit with out warning. Many shops and offices had closed early, and at 5:30 most people were home. Outside the air was raw, the sky dark, inside, lights glowed furnaces hummed, and pots simmered on stoves.

When it happened, the familiar and cozy vanished. It became strange and fearful.

On the edge of Alaska, at Turnagain, the sound of a deep rumble, like thunder was heard. Every thing began to shake. The residents felt the world was coming to an end. Turnagain was built on a high bluff, overlooking the water. The violent shaking triggered a landslide and the front of the bluff slid away, carrying houses and garages with it.

In downtown Anchorage, large buildings creaked and groaned, floors rose and fell with waves, causing large chunks to fall into the streets. A movie theater dropped 30 feet into a hole that opened beneath it. Most of Alaska experienced the nightmare.

Highways buckled. Railroad tracks

continued-

WHEN THE EARTH SHAKES cont.

twisted into curls of steel. Snow, ice and rock swept down the slopes of mountains. The shake only lasted for 5 min. but the earth still twitched for weeks.

All along the coast, port towns suffered great damage. One reason was the kind of land, rocky land that stands high above the water. The land began to slide and whole water fronts vanished under water.

Seward, a port city and the end of the oil line, which was stored in tanks waiting for shipment, was really hit hard. The tanks broke and the oil caught fire.

The entire water front slid into the bay, causing water to surge away from the land. Burning oil was carried into the bay and then swept back again, bringing the fire with it, thus destroying the tugs, fishing boats and a tanker. The night was a blazing inferno.

In the Gulf of Alaska the ocean floor rose, so did the land along the coast. A region the size of Maine rose 3 to 8 feet. Inland a big region sank. When the quake ended the town of Valdez was 10 feet higher than it had been before.

Kenai Peninsula moved sideways as much as 60 feet. Near Valdez a huge wave reached 220 feet above sea level and the earth fell into the sea. The strip of land 4,000 feet long and 600 feet wide was the victim.

The 1964 Alaska earthquake was one of the strongest ever recorded. But it took place for the same reason that all earthquakes do, because the earth suddenly shifted.

Over the years, earth scientist have mapped earthquakes. They have learned that small earthquakes can take place almost anywhere. But the big ones take place in only two regions, one of these is the rim of the Pacific Ocean, a region that is known as the Ring of Fire.

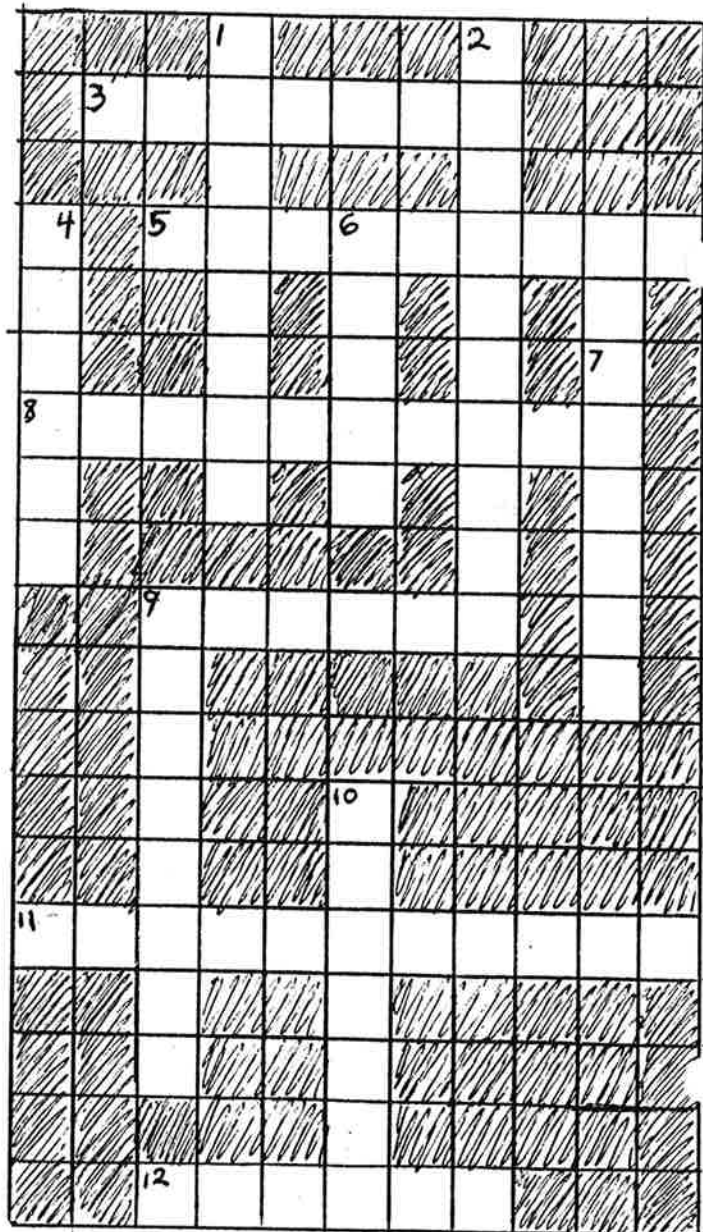
EARTHQUAKES- by Patricia Lauber 1972

DOWN

- 1. ----- RIDGE QUARRY
- 2. QUARRY IN 1 DOWN IS LOCATED IN -----, INDIANA
- 4. AFMS PRESIDENT
- 6. WHAT BOB MILLER DOES WITH OBSIDIAN
- 7. MICHIANA GEM & MINERAL SOCIETY PRESIDENT
- 9. ----- GEM & MINERAL SOC.
- 10. PREHISTORIC SEA LILIES

ACROSS

- 3. CALCIUM CARBONATE MINERAL FROM QUARRY IN 1 & 2 DOWN
- 5. IRON SULFIDE MINERAL FROM THE SAME QUARRY
- 8. HOST FOR 1990 MWF SHOW
- 9. HELPS MWF BULLETIN EDITORS
- 11. MARINE INVERTEBRATE FOSSILS
- 12. ----- DOBECKI TEACHES LAPIDARY





Is it really spring? I am not sure if it is the robins we see or the friendly faces of our snow birds back that indicate it is. **Welcome back Fred & Addie Niebauer, and Catherine McHugh** (arriving home the day after our meeting).

Bob and our family would like to wish every member a belated blessed and happy Easter. I hope everyone was able to celebrate such a joyous occasion with a good day.



Again I would like to stress the importance of sending letters, cards, or a phone call to those in our club

that for some reason or other, are not capable of coming to our meetings.

Stuart & Catherine Biek

Nelvin Chesnut

Vivian Finley

Dr. Gordon Firth

Ray Green

Margie Hawkins/McHugh

Joyce Larson

Marilyn Meier

Delton & Tess Miller

Gertrude Orrell

Chris & Jerry Shoemaker

Shirley Toney

Jess Wise

** For addresses and phone numbers, please check your 1990 membership directory.

We can look forward to another interesting and educational program by Doris Kemp this month. Doris has another new one in the making, possibly for a fall or 1991 spring program. Just a hint (how many have always wanted to try their hand at carving?)



The heat is on - and will continue to be on, in my next few months Sunshine report. Please, when planning those vacation days try to allow for a day or two in Evansville, IN. The MWF show this year during July 19-22, promises to be a great one. All air-conditioned, lots of variety in dealers, many outstanding exhibits, our own club involved. Did you know that from our club alone - six people in MG&MS will be taking active part in the MWF show/convention. Either by office, Chairmanship, Delegate, State Director, or Assistant to a Committee. **You** can join in. Our club has to have a Booth representing our 1991 MWF show for next year. It really can be fun manning this Booth. It is surprising how many people that will be in our area over Labor Day weekend and need information. Many just like to visit with you. Michiana Gem and Mineral Society is YOU. You will not be expected to sit at this booth the entire 4 days. Even a few hours a day would be great. Who can represent us but us???

Off of my soapbox - on to another track. While at the spring meeting of the MWF, I picked up a few forms on the contest EDUCATION THROUGH SHARING. This award is given to individuals who have been active sharing their knowledge and talents of the lapidary arts and the earth sciences. They may share in many different ways.

The MWF and AFMS want to know about these people so that they might honor them. There are many people in our club that qualify for such an honor. If you feel you are eligible, or you know of someone, let me know and I will give you this form with the details. It would be a great achievement for our club to have someone from MG&MS as the top educator of this year. (You have until December 31, to reach this goal).

APRIL

BIRTHDAYS

- 3 - Ed Miller
- 4 - Achal Achrol
- 5 - Stan Kile
- 28- Bill Crull
- 30- Ossie Kytta



? Jim Russell Apologies to Jim, we know April is his birth month, but I can't find the date anywhere.
HAPPY BIRTHDAY AND BEST WISHES TO ALL OF THE ABOVE

ANNIVERSARIES

- 12 - Stuart & Katie Biek
 - 16 - Fred & Addie Niebauer
- HAPPY ANNIVERSARY FOR ANOTHER WONDERFUL YEAR.**

Looking forward to seeing everyone at our April meeting.

Keep Smilin'

Kathy

Don't forget Georgia Costin... she is busy accumulating and compiling information for the All American Club award for next year. Wouldn't it be wonderful for not only our club to host the MWF 1991 show, but to receive these awards too. Don't forget, we have an Editor that doesn't do too bad receiving recognition for his hard work. Pictures are needed for proof for Georgia and the Education through Sharing. Get out your cameras people!

THE MISSISSIPPIAN PERIOD IN INDIANA -PART 2: By Paul Godollei, Club Member

Last month we discussed the Lower Mississippian formations in Indiana. We will describe the Middle Mississippian Period in this article.

The Middle Mississippian Formations in Indiana begin with the Harrodsburg Limestone at the lowest level which were described in 1897 for the beds near Harrodsburg in Monroe County. The beds are mostly coarsely crystalline limestone with some shale partings, especially in the lower beds. Chert may also be found in beds and nodules. The upper 10-15 feet is composed mostly of bryozoan remains. Ranges from 60-90 feet in thickness.

The Salem limestone is the next layer above and consists of 30-80 feet of massive granular cross-bedded limestone, grey to bluish-grey in color weathering to buff. Well developed oolitic grains-abundance of small crinoid stems and foraminifera-especially Endothura baileyi. This is the famous Indiana Limestone building stone known thruout the world .

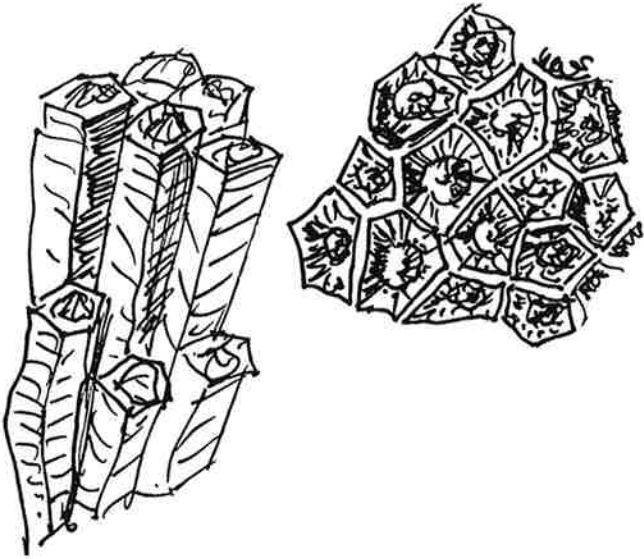
The St. Louis Limestone is a granular to lithographic limestone, medium-grey in color, thin-bedded, hard, compact, with abundant chert and black flint nodules in the middle and upper parts of the formation . Contains thin, blue-green, grey and black shale layers especially in the lower beds. In Indiana, this formation ranges from 100 to 300 feet in thickness. The index fossil Lithostrotionella castelnaui (Lithostrotion canadense) is located herein.

The uppermost formation of the Upper Mississippian is named the Ste. Genievieve Limestone and is a thick to thin bedded lithographic to crystalline limestone, oolitic in part, with cross-bedding. The color is white to medium grey. Scattered chert nodules. It is divided into the lower Fredonia bed 30-120 feet thick containing the Lost-River Chert zone ; the Rosiclaire, 2-38 feet of calcareous sandstone ; the Levias-30-60 feet with 1-6 feet of brecciated limestone at the top. The total Ste. Genievieve ranges from 75 to 170 feet in thickness. The index fossil Platycrinus penicillus is found in these beds.

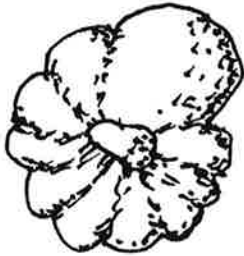
Next Month we shall discuss the Upper Mississippian Formations.

BIBLIOGRAPHY:

1. Cir3. Guide Book-"Indiana Geologic Field Conference"-1948-Upper and Middle Mississippian Formations of Southern Indiana.
2. "Excursions in Indiana Geology"-by Burger, Rexroad, Schneider and Shaver, Indiana Department of Natural Resources Geological Survey Guidebook



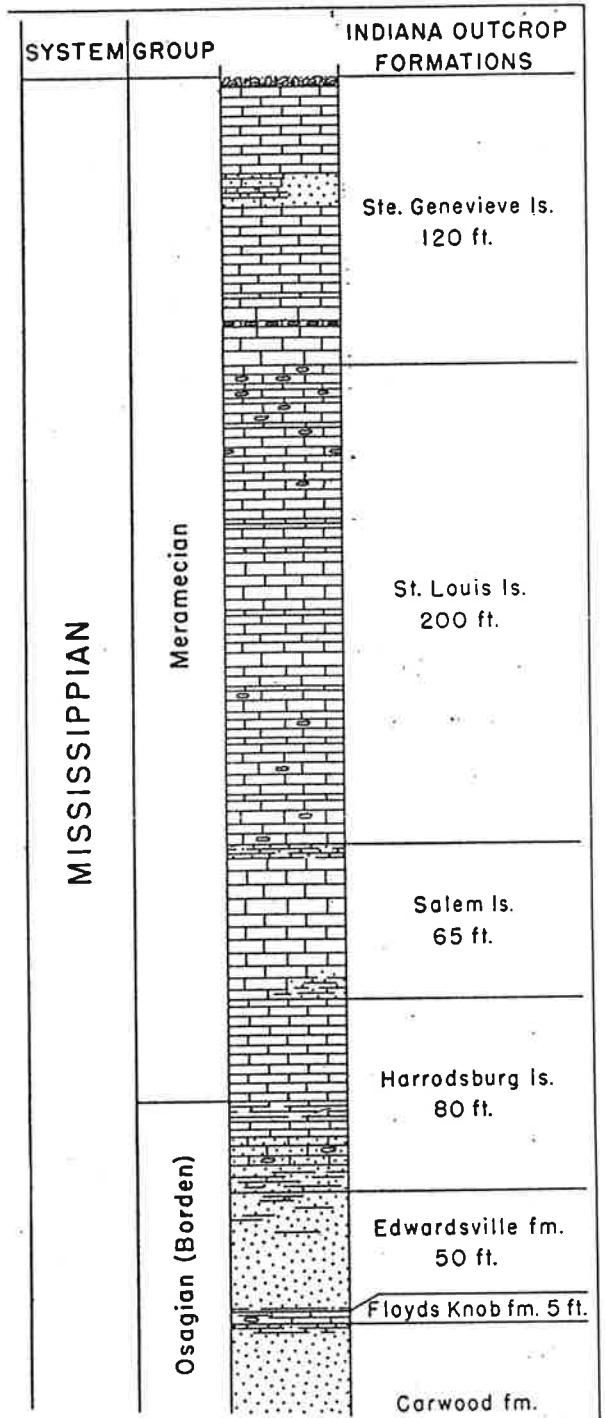
Lithostrotionella castelnaui
MISSISSIPPIAN FORMATIONS
Colonial Coral



Endothyra baileyi



Platycrinus
(Crinoid)
Part of cup base



MIDDLE MISSISSIPPIAN STRATIGRAPHY

Jess Wise is out of the hospital and is doing better.

Niebauers are back.

From the April 1990 issue of the AFMS NEWSLETTER

REPORT ON AMATEURS COLLECTING FOSSILS ON FEDERAL LANDS

Item #3 of the NAS report on PALEONTOLOGICAL COLLECTING stated "All BLM and USFS lands, except those covered by the Wilderness Act or specially set aside, shall be open to fossil collecting for scientific, (recreational, and educational) purposes. "Recreational and educational" were added in the Boulder meeting. NAS recommended one day reconnaissance collecting without notifying BLM and an extended stay required notification. Also quarrying of more than 2 cubic yards to extract fossils using only hand tools, required a permit.

Approximately one-half of the 3 day meeting was spent on negotiating item #3. A complete agreement was not reached as the following footnote in part was added "The Society of Vertebrate Paleontology recognize that the 12/4-6/89 deliberations speak to some of the concerns of the Society, including information exchange, monitoring of collecting activity on Federal lands, and education of the collecting public.The SVP registers its strong belief that vertebrate fossils should only be collected under a procedure wherein permits are required for all activities regardless of the size of the area affected or disturbed.

All participants agreed that it is important for information exchange, protection of resources, and wise land management decisions that non-commercial collectors notify the BLM or USFS of their intentions to collect fossil resources, and complete the attached informational form whenever a vertebrate fossil is discovered. The letter and form will contain relevant information on collecting within the 270 million acres of BLM land and a similar acreage of Forest Service land plus permits needed on Fish & Wildlife lands etc. The BLM and USFS wish to be aware of significant fossil deposits so multiple use planning, ie, road building, power line, gas and oil lines, mining and quarrying permits, can avoid these localities. If a specimen of unique scientific interest is discovered, the government requests that the collector consider depositing the fossil at an accredited institution for research and educational purposes. The collector will receive public recognition for this contribution to science.

The form to be returned if the collector discovers a vertebrate fossil requests the following:-

- 1) identity of individual(s) and/or institution
- 2) date of collection
- 3) geographic location (geological map coordinates or nearest road map location)
- 4) stratigraphic level
- 5) depository and date of deposit
- 6) paleontologist consulted, and
- 7) brief description of discovery, collection, and site characteristics

The casual collector should seek help on items 4-7 from your area paleontologist.

Where (a) there is a potential for significant disturbance of other resources (e.g. endangered species, archeological resources or wilderness areas, etc.); (b) mechanical equipment or explosives are used; (c) the area of surface disturbance is more than 18 square feet (BLM only); scientific, recreational, or educational collectors will be required to apply for a permit prior to collecting paleontological specimens on Federal lands.

Currently, information on collecting on BLM or USFS lands can be obtained from regional offices in each state or the geological survey office in each state. They will inform you of collecting limits of fossils, petrified wood, and mineral and gem material and indicate which maps are available. Some areas have Areas of Critical Environmental Concern-ACEC's or National Natural Landmarks which are closed to collecting except under permit

JOHN BOLAND CONSERVATION/LEGISLATION COMMITTEE

SHOWS AND CONVENTIONS

I would like to urge everyone to take in the shows near you and to make an extra effort to support your Federation show. Most of the shows would make a nice long weekend trip for you.

How about a vacation to sunny California. The AFMS Show is in Ventura in late June and July 1st. There is a lot planned at the show and a lot to see in the area also. I would hope to see all of you there.

Gene Powell, President AFMS



The Conejo Gem & Mineral Club are making their final plans and arrangements to host the combined A.F.M.S./C.F.M.S. Show in Ventura on June 28, 29, and 30 and July 1. This will be held at the Fairgrounds in Ventura and the Fairgrounds are on the beach. This is a lovely setting and there are many things to do in this area.

To carry out the patriotic theme of the show, we have some excellent exhibits.

There will be some new scrimshaw displays showing ships of the Colonial Navy and Harley Rogers is making a set of the heads of all of the U. S. Presidents. Both these exhibits will be shown for the first time.

There will be very informative and interesting programs, many excellent dealers with a variety of materials, outstanding exhibits and activities for everyone.

Plan now to include a stop in Ventura in your vacation plans. We are looking forward to having you join us for a fun filled show.

Ruth Bailey
Publicity Committee

* * *

Robert Mount of San Louis Obispo is completing an exhibit featuring ships of the Colonial Navy, including John Paul Jones first ship, Providence. He will also have the Pickering, a top sail schooner used by the revenue services to combat smuggling.



Mr. Mount has been making scrimshaw pieces for a number of years.

