

JANUARY 1990

THE ROCKFINDER



ED MILLER, EDITOR
MICHIANA GEM & MINERAL SOCIETY
114 E. LOGAN ST.
ARGOS, INDIANA 46501



FIRST CLASS MAIL

LARSON, JOYCE
144 Spruce Drive
Westville, IN 46391



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| 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 1 JANUARY 1990
 PUBLISHED BY: MICHIANA GEM AND MINERAL SOCIETY INC. SOUTH BEND, IN.

REGULAR MEETING:

SUNDAY JANUARY 28, 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

Those of you who are into the jewelry aspect of the club should really enjoy the program this month. It is called "Pewter Puttering" and it deals with making pewter pieces.

This sounds like it might be pretty interesting. This program has been shown to other clubs and comes highly recommended.

The program for next month is going to be very interesting from what I have heard so far. Jessica Zeiger is going to present "Egypt" to us.

HOSPITALITY:

MARIAN FIEGE
 MOLLY ELWELL
 GORDON DOBECKI

COMING EVENTS:

MAR. 9-10

Eastern Indiana Gem & Geological
 Society
 17th Annual Show
 Wayne County Fairgrounds
 Richmond, Indiana



COMING EVENTS CONTINUED:

MAR. 10-11

Geodeland Earth Science Clubs Inc.
 10th Annual Mineral & Gem Show
 Western Illinois University
 Student Union Ballroom
 Murray Street
 Macomb, Illinois

MAR. 30-APR. 1

Flint Rock & Gem Club
 24th Annual Gem & Mineral Show
 Williams Community Education Center
 3501 Minnesota Avenue
 Flint, Michigan

APR. 4-7

Indian Mounds Rock & Mineral Club
 15th Annual Gem & Mineral Show
 Eastbrook Mall
 3655 - 28th Street S.E.
 Grand Rapids, Michigan

July 19-22

Midwest Federation Show
 Hosted by the Evansville Lapidary
 Society Inc.
 Green Convention Center
 7th & Walnut Streets
 Evansville, Indiana

MINUTES FOR NOVEMBER 26, 1989
MICHIANA GEM AND MINERAL SOCIETY

Margaret Heinek, President, called the meeting to order at 2 p.m. There were 42 members and one guest, John Taylor of Mishawaka. Betty Stout moved to accept the minutes of the last meeting as printed in the ROCKFINDER; motion seconded by Kathy Miller and carried. Christine Shoemaker read the treasurer's report, showing a balance of \$4193.55. Report was accepted and will be filed for audit.

Ed Miller reported that the new copier had been delivered to his school and he has not yet got it home, but it is in the possession of the club.

A hospitality sign-up sheet was passed around for the meetings for the rest of the year.

Paul Godollei said that 25 books are now in circulation, and some are being kept out too long. Books should be returned at the meeting after the one in which they are signed out. Two new books were purchased, one of which will carry an inscription in memory of Lucy Miller.

Education: Gordon Dobecki reported that he has new diamond wheels for the lapidary class, and that he has begun offering silversmithing class as well. To raise money to pay for the silversmithing equipment, he was offering jewelry at a special half-price sale at his home after the meeting.

Margaret spoke of the good field trip held November 12, and asked if the members would be interested in a trip to the Royal Ontario Museum in Toronto. Decision was deferred

until more could be learned about the cost and time of such a trip.

Sunshine: Kathy Miller offered the club's sympathies to Adeline Niebauer on the loss of her brother, and to Nick Pellus in a recent bereavement. She suggested sending cards to Vivien Finley, who is now housebound. Aaron Young, junior member, was congratulated on having reached the age of eleven years and having been a member for most of that time.

Various interesting rocks were passed around while Margaret thanked the members for their good work for the club, and mentioned that two clubs in the Chicago area are having trouble staying in existence.

Ed Miller displayed some colored photos from Rocks and Minerals magazine and said he would sponsor a contest among the members for illustrations of rocks, minerals, or lapidary pieces. There will be four prizes: adult and junior black and white, and adult and junior color.

Margaret presented the mail: a flier on specialty tools, which raised some interest, and one on a safari to Honduras and Guatamala, which raised none.

Those coming to the Christmas party are asked to bring a gift of \$4 value. Those who wish to add their names should call Marie Crull. Dinner will be at one p.m. in the usual meeting room.

Bob Miller presented the slate for the election of officers for 1990: President, Margaret Heinek; Vice president, Bob Miller; Secretaries, Marie Crull and Georgia Costin; Treasurer, Jeanne

Finske (a change in the slate necessitated by the fact that Christine Shoemaker is moving to Iowa); Liaison, Stan Kile. There were no nominations from the floor. Irene Ungurait moved that the nominations be closed, seconded by Marian Fiege. Fred Niebauer moved that the election be unanimous, seconded by Molly Elwell. It was so ordered.

Irene Ungurait and Jessica Zeiger agreed to serve as chairpersons of the hostesses for the year. A publicity chairperson is still needed.

Doorprizes were drawn for. Kenny Zeiger won the main junior prize, with the other juniors present sharing a second one. Adult prizes went to Josephine Kytta, Lincoln Johnson, Mary Etta Miller, Paul Godollei, and Stan Kile.

The meeting was followed by a slide show presented by Bob Miller on the trip he and Kathy took through several Midwestern states, featuring Diamond Crater State Park. They had brought back both samples and literature to share with the club. During the refreshment period, members viewed postcards and snapshots brought back by Ed Miller from the field trip two weeks ago.

Submitted by
Georgia Costin, CSC
Secretary

From the Dec.-Jan. 1990 AFMS NEWSLETTER

MIDWEST FEDERATION:

VIRGINIA L. PETERSON

a native of Ann Arbor, Michigan, received her B.A. in Geology at Grand Valley State University, Allendale, Michigan; her M.S. in Geology at the University of Massachusetts, Amherst, where she is working on her Ph.D. in Geology. Her research focuses on the evaluation of the timing and character of movement along a major ductile shear zone in south-central Massachusetts and the study of stratigraphic relationships and structural and metamorphic effects in that area.



1989 ended up in a spectacular way, 30" of snow at Hudson Lake! And 1990 looks like it is continuing the blustery weather. Old Mother Nature has been good to us the last few years, but this year she is showing she is still boss. So just keep yourself warm and away from the flu.

Have you been reading the articles about the dinosaurs in the South Bend Tribune? They are really interesting and gives us a new insight into what may have occurred when they became extinct.

Now on to our Club's new year. Our program this month is a slide program on pewter. So how about seeing if you have a friend or acquaintance who you feel would be interested in a pewter program, bring them. Many people collect pewter pieces, and unless I am mistaken, this shows "puttering" with the metal. In order to obtain programs we are all interested in, how about letting Bob Miller know what you want to see. If you are aware of someone who will be willing to speak to us, please let Bob know.

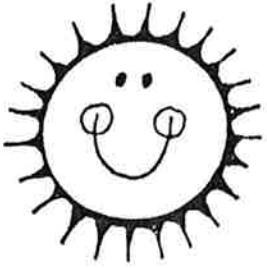
Illinois lawmakers are passing a new law, Bill SB 467, with the purpose of preserving historical resources of the state, which would require a permit to look for fossils in the state. Some states that have passed these preserving laws, have amended their law to exclude paleontological resources, before signing the Act when it was pointed out that fossils were not archaeological or historical resources and having to obtain permits for fossil collecting would not be enforceable. More on this at our meeting this month.

At this time I would like to thank everyone for all of their time and work in making this such a good club. So many clubs are struggling to get workers and members, that they fear for their existence. So keep up the good work.

I don't know how many of our members remember the man who displayed in the 1986 show, who wore an *Aussie* hat, Dick Wood, from Florida. Dick passed away on Dec. 28 after a long fight with cancer. Our sympathy goes out to Simonne, his wife.

Margaret

SUNSHINE REPORT



Have you made your **NEW YEAR'S** resolutions yet? May I suggest a few?

- 1) If you have a club vest, **WEAR IT.**
- 2) Make an effort to attend as many monthly meetings as possible.
- 3) More involvement in the club - **your club** - volunteer, be active, you will find it is fun.
- 4) Participate in the annual show, there is something for everyone to do.
- 5) When you are called upon to be a host/hostess, present a program, take a Chairmanship, or be on a committee - say **"I WILL!!!"**
- 6) If a field trip is offered - sign up. The last one to Chicago was great, and everyone had a good time.

On to more news to begin this new year. Did you see the great writeup and picture of Viola Robinson in the Sunday Scene section of the South Bend Tribune over the holidays? For members that were not aware, Viola is retired from teaching in the South Bend Community School Corporation and now has a studio at the South Bend Cultural Center.

In the January 10th issue of the South Bend Tribune, an article told of area school teachers that are volunteering their time at the Hope Rescue Mission helping to further the education for people desiring to be tutored. Larry Lanz club member, is one of these volunteers, good for you Larry, we are proud of you.

Just a hint at something special that has happened to one of our club members, ask Editor Ed for more details!



We had a great Christmas party, but a touch of sadness went along with it. That will be the last time Chris & Jerry Shoemaker will be in our company.

Jerry has another place of employment that will take them out of the South Bend area. They will be moving to Iowa the last of January. We know they have to move, but we will miss them. Chris said they will plan to attend our annual show in September. Good luck and best wishes to both of you.

Snowbirds have left us....



Fred & Addie Niebauer have rejoined former club members Carlton & Doris Pletcher, and Max & Helena Cripe in Brownsville, TX. Catherine McHugh is back in Yuma, AR staying with her daughter and son-in-law Marilyn & Joe Meier (also club members). Catherine said the weather was 70 in Yuma, cold for there, but the roses are beautiful.

I did not publish December birthdays/anniversaries in the December issue, so I will include them in this months.

BIRTHDAYS



DECEMBER

- 1 - Aaron Young
- 8 - Clayton Merrill
- 10- Margie McHugh-Hawkins
- 11- Molly Elwell
- 16- Danny Zeiger
- 29- Derek Stodden
- 29- Bob Heinek

JANUARY

- ~~6 - Paul Crum~~
- ~~14- Clarence Orrell~~
- ~~14- Gordon Dobecki~~
- ~~26- Marilyn Meier~~
- ~~31- Clifford Fowler~~

ANNIVERSARIES

DECEMBER

Christine & Jerry Shoemaker



JANUARY

Bess & Jess Wise (1944)
 HAPPY BIRTHDAY & BEST WISHES to all of the above.

Keep Smilin'

Gathy

By PAUL GODOLLEI - CLUB MEMBER

THE DEVONIAN PERIOD - PART 2

Part 1 was in the Jan 1989 Issue of the Rockfinder.

The exposed Devonian rock formations in southern Indiana begin with the Geneva Dolomite on top of the Upper Silurian formations. Above this follows the Jeffersonville limestone, the North Vernon limestone followed by the topmost layers of New Albany shale. The lower dolomite and limestone is of Middle Devonian age, while the black and greenish-gray New Albany shale above blends into the lower Mississippian age formations, and is of late Devonian age.

The Geneva dolomite is exposed in Shelby County outcrops, and consists of a light to moderate brown fine-grained dolomite bands of carbonaceous material with pockets of calcite common. It reaches a maximum thickness of 60 feet in Vigo, Clay and Owen Counties, and pinches out to the North in southern Fountain County, and disappears to the south in Sullivan County. Some fossil molds and casts can be found, but the Dolomitization of the limestone has destroyed almost all organic remains.

The Jeffersonville limestone is well exposed at the Falls of the Ohio near Jeffersonville. It is divided into three zones: the Amphibora beds or lower Coral Zone, the Brevispirifer gregarius Zone (middle), and the Paraspirifer acuminatus Zone, (Upper). The thickness varies from 25 to 45 feet where exposed, but borings show thicknesses of 200 feet in Posey County, and is 100 or more feet thick in southwestern Indiana.

The North Vernon Limestone was first discovered near North Vernon in Jennings County in 1876, and includes the Speed, Silver Creek and Beechwood members. It is medium light-gray to yellowish gray in color and fine to medium grained and slightly shaley. It ranges from one to 25 feet in thickness in exposed outcrops. The subsurface thickness in Posey County is 120 feet.

The Silver Creek Member is usually dark gray and fine grained, and contains the brachiopod *Chonetes yandellanus* Hall, corals, bryozoans many brachiopods, pelecypods, and a few gastropods and cephalopods. It is about 15 feet thick at Jeffersonville.

The Beechwood Member is 1 to 3 feet thick in most areas around Louisville, and consists of light to dark gray crystalline thick bedded limestone, with abundant crinoid columnals with an occasional crinoid head and brachiopods, pelecypods, bryozoans and many corals.

The New Albany Shale is generally black to gray shale with layers of greenish-gray shale, dolomite sandstone and sandy dolomite. At the Falls of the Ohio it contains marine sediments, logs, organic matter, and in the lower part contains the brachiopods *Leiorhynchus* and *Chonetes*, the pteropods *Tentaculites* and *Styliolona*. The overlying Selmier Member, which is over the Blocher, contains the arthropod *Spathiocaris* and a plant fossil *Sporangites*. The overlying Morgan Trail Member contains silicified logs of *Callixylon newberryi*, with the upper Camp Run Member containing specimens of the brachiopod *Lingula* and pyritized gastropods and pelecypods. The uppermost Clegg Creek Member contains fossiliferous phosphatic nodules in its upper part. These nodules contain brachiopods, arthropods, fish remains and plant fossils.

The area around the Falls of the Ohio is excellent for collecting, especially when the level of the river is low so that corals can be collected at the falls. Go to the southwestern edge of Jeffersonville along Riverside Drive at the Pennsylvania RR bridge. Over 600 species of fossils have been found there in the last 150 years.

If the water is too high, another spot for Devonian fossils not far is in western Clark County one mile North of Carwood just North of highway 60 in a roadcut south of a little stream near the 2nd intersection out of town.

BIBLIOGRAPHY:

1. Circular #10 - State of Indiana, Dep't of Natural Resources, Geological Survey, "Geology of the Falls of the Ohio River" by Richard Powell, 1970.
2. Circular #6 - "Adventures with Fossils" by Richard H. Shaver, 1959.
3. Bulletin #44 - "Stratigraphy of the New Albany Shale in Indiana" by Jerry A Lineback, 1970.

4. Bulletin #50-"Silurian and Devonian Rocks in Indiana Southwest of the Cincinnati Arch" by Leroy E. Becker, 1974.
5. "Regional Geographic Maps no. 6 & 7", State of Indiana, Dep't of Natural Resources Geological Survey..

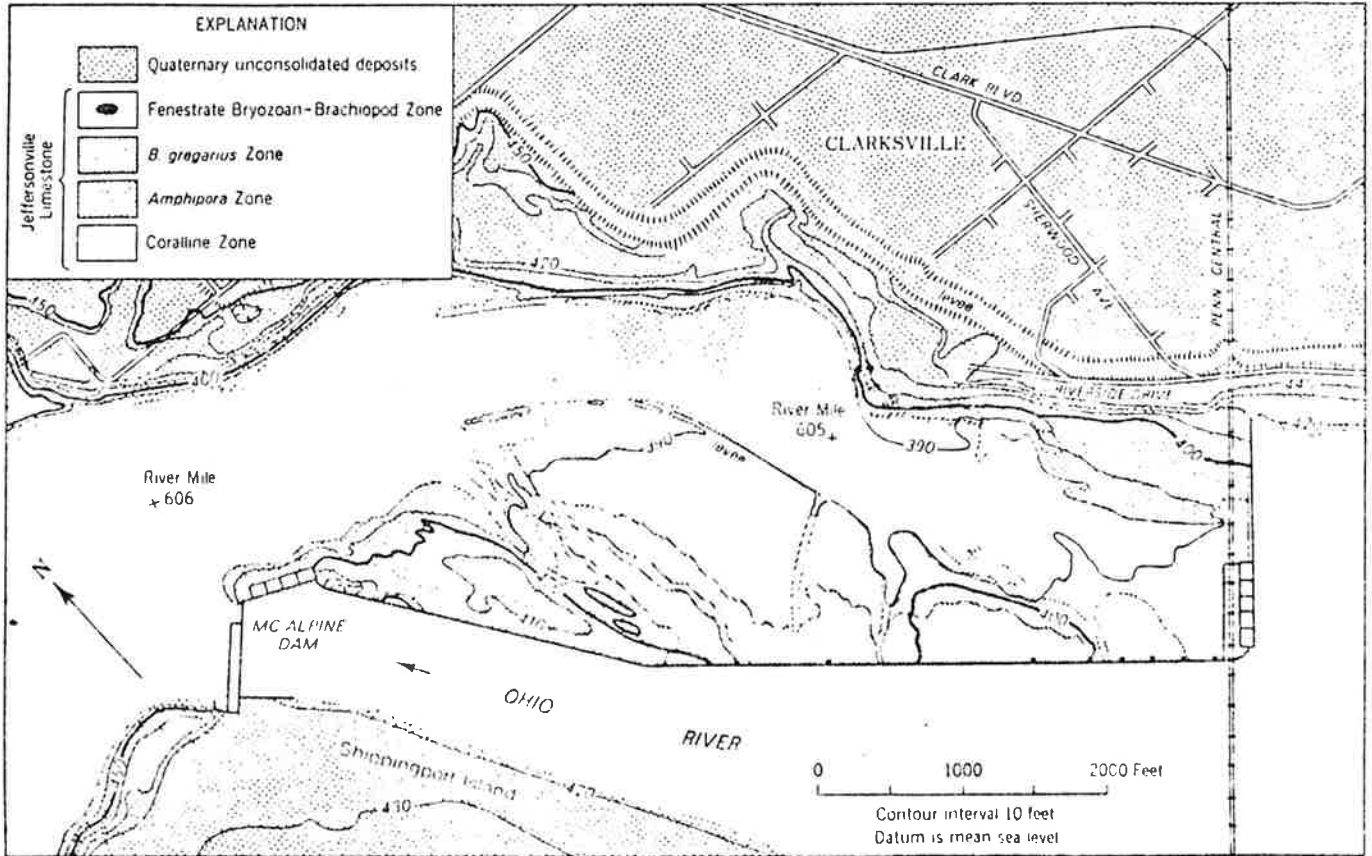


Figure 9. Geologic map of the Falls of the Ohio River showing the bedrock exposures of strata of Devonian age and areas covered with Pleistocene and Recent unconsolidated deposits. Topographic base modified from U.S. Army Corps of Engineers unpublished map, 1964.

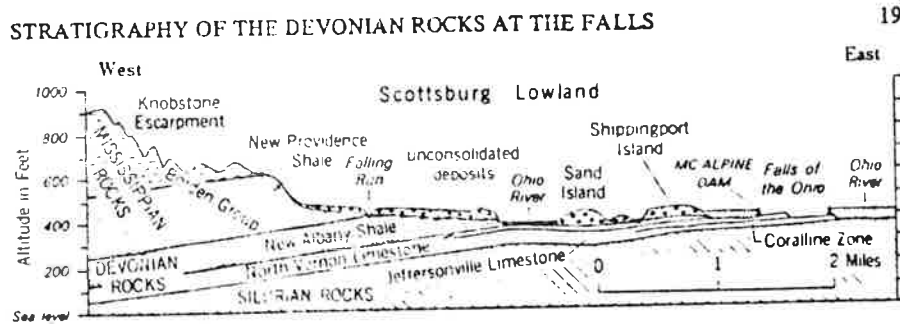


Figure 8. Generalized geologic cross section of the vicinity of the Falls of the Ohio River.

The third part of Paul Godollei's article will appear next month.

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MIDWEST FEDERATION OF MINERALOGICAL AND GEOLOGICAL SOCIETIES

Member of The American Federation of Mineralogical Societies

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December 28, 1989

Honorable James Thompson
Illinois Capital Building
Springfield, IL 62706

Dear Governor Thompson

This letter is to object to the inclusion of "Paleontological Resources" in the recently passed Bill SB 467. The stated purpose of the Act is to preserve the historical resources of the State, and in federal terms and most states, this has been defined as archaeological resources. The form of the bill is almost identical to Acts of other states that were recently amended to exclude paleontological resources. New Mexico removed the paleontological resources from their Act. The North Dakota Governor line-item vetoed "paleontological resources" before signing the Act when it was pointed out that fossils were not archaeological or historical resources and permits for fossil collecting could reduce tourism. The Utah State Geologist recently stated in a meeting that he could not administer fossil collecting laws over millions of acres, but attempted to control archaeological resources. The Governor of Wyoming recently wrote that he will be asking for removal of paleontological resources from their laws because of tourism and personnel requirements.

Paleontological resources are the fossilized remains deposited in sediments millions of years ago. Illinois land surface represents geological time mainly in the Paleozoic Era. This period includes the Ordovician Age land surface (500 million years) found along the bluffs of the Mississippi River to the Mississippian and Pennsylvanian Ages lands in the coal field of southern and northern Illinois. There is little paleontological resources in Illinois of less than 225 million years old (see Appendix A) Archaeological resources of historical value may go back 2000 years. They include human and animal bones, pottery pieces, chipped stone scrapers, and other evidence of human existence and represent our human heritage that should be preserved.

Permit-free fossil collecting is essential to Illinois as well as the nation. Two other amateurs and I attended a negotiating conference at Boulder, CO on December 3, 4, 5 with representatives of BLM, Forest Service, museums, and university paleontologists, to allow the public to collect fossils on federal lands. Agreement was reached that no permit will be required for surface collecting with hand tools within an ground disturbance area of 18 square feet. The Code of Federal Regulations CFR 261.9(h) and CFR 296.3(4) remain in force which prohibits removal of paleontological resources that are found in a site of archaeological interest. The university and museum paleontologists had high praise for the large number of amateurs that collect fossils and give specimens of significant value to them for scientific study. (see Appendix B & C). Fossil

(continued on page 8)



Midwest Federation

Golden Jubilee!



EVANSVILLE, INDIANA

July 19-22, 1990

(continued from page 7)

collectors also give talks and fossils to school children to create an interest in the earth sciences. These fossils are obtained by the free collecting on public and private lands. I hope you do not support stopping this practice. Fossils are also shown at hundreds of fossil and mineral shows held by clubs to educate the public. Illinois is blessed with an abundance of fossils and many fossil collectors come from out-of-state to collect and attend shows. School children and their parents become casual collectors and stop along the roads and rivers to collect. A permit system would not be enforceable. The Illinois Geological Survey at Champaign conducts many fossil field trips each year for teachers and interested fossil collectors

Most of the fossil and mineral clubs in Illinois belong to the Midwest Federation of Mineralogy and Geological Societies. This federation has 210 clubs in the midwest with a membership of over 11,000 members. They are part of the American Federation of Mineralogy Societies which has 50,250 members nationally. All clubs contribute to a scholarship fund that helps to support 24 graduate students each year in the earth sciences. Many clubs also contribute separately to colleges and museums.

We ask that you request an amendment to SB467 to exclude paleontological resources except where they are found in a site of archaeological interest. We thank you for support of the TULLY MONSTER as State fossil.

John Boland, Chairman
Environment/ Legislation Committee

MINUTES OF THE DECEMBER 10, 1989
MICHIANA GEM AND MINERAL SOCIETY.

A Christmas dinner was held at the Westminister Presbyterian Church. A social hour was held and dinner served at 1:00 P.M..

Rocko was played and gifts were exchanged. Fun had by all.

A special thank you to Charlotte Young and Jessie Zeiger for the lovely decorations for the party.

Also, a special thank you to all the good cooks!

Margaret Heinek, President wished everyone a MERRY CHRISTMAS and a HAPPY NEW YEAR, thanking everyone for all their help thru out the year!

Respectfully submitted,

Marie Crull, Secretary

Rockhounds and Stamp Collectors,

I am still trying to convince the Post Office to issue four stamps depicting fossils.

The stamps depicting prehistoric animals (dinosaurs) were well done and interesting, but I would like to see some of our earlier creatures and plants on stamps.

I feel few of us can collect a dinosaur but many of us have examples of the older and smaller fossils of the early Paleozoic Era such as trilobites, brachiopods, crinoids, corals and early plants.

Please encourage your rockhound and stamp collecting friends to write a short letter to Washington requesting that they issue four fossil stamps.

The address is:

U.S Postal Service
Citizens Stamp Advisory Committee
Room 5670
475 L'Enfant Plaza West, SW
Washington, D.C. 20260-6753

Tony Verdi
1225 Ledge Road
Hinckley, Ohio 44233

HAPPY NEW YEAR!!!!!!