

CHIP & LICK



Official Publication of the Miami Valley Mineral and Gem Club

VOLUME 48, NUMBER 3

MARCH, 2002



MEETINGS: Second Sunday of the month except June, July and August.

PLACE: Small Business Development Center, 300 E. Auburn Ave.,
Springfield, OH 45505. Phone: 322-7821

TIME: 2:00 P.M.
Guests are always welcome!

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Purpose and Memberships

The objectives of the Miami Valley Mineral and Gem Club are:

To promote interest and increased knowledge in the fields of mineralogy, geology, and the lapidary arts.

To further the art of mounting and setting stones.

To encourage the collecting, identifying and displaying of specimens in these fields.

The annual dues are \$7.50 for an individual membership, \$10 for a couple, or \$12 for a family membership.

This club is a member of the Midwest Federation of Mineralogical and Geological Societies (MWF), which is a member of The American Federation of Mineralogical Societies (AFMS).



The Editor of the MVMGC is a member of S.C.R.I.B.E.

MIAMI VALLEY MINERAL AND GEM CLUB, INC.

2002 OFFICERS

President	Hugh Fulton	322-1021
Vice President	Matt Kromphardt	878-3348
Corresponding Secretary	Katrin Ruben	390-2081
Recording Secretary	Dick Faux	289-7032
Treasurer	Joyce Perry	372-8228
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Trustee (2002)	John Mercer	322-1768
Trustee (2003)	Ginny Bignell	866-8789
Trustee (2004)	Udean Babyak	322-0443

2002 COMMITTEES

Anti-Litter	All Members	
Canceled Stamps	Kay Faux	289-7032
Chaplain	Udean Babyak	322-0443
Christmas Banquet	Udean Babyak	322-0443
Field Trips/ Safety	Matt Kromphardt	878-3348
MWF Liaison	Hugh Fulton	322-1021
Photographer	Hugh Fulton	322-1021
Program	Andreas Ruben	390-2081
Refreshment	Becky Dobbs	372-9022
Scholarship	Joyce Perry	372-8118
Show Chairman	Hugh Fulton	322-1021
Spring Banquet	Udean Babyak	322-0443
Sunshine	Joyce Perry	372-8118
Swap	Hugh Fulton	322-1021
Webmaster	Katrin Ruben	390-2081



MARCH BIRTHDAYS

Richard Litzinger Mar 22
 Fay Cowan Mar 30

MARCH ANNIVERSARIES

None this month



President's Message

Our February meeting was certainly informative. Thanks to Doctor Andreas Ruben we now have a better understanding of gamma rays and how radioactive atoms emit them. Radioactivity has been in the news often lately as to where to store some 40,000 tons of accumulated nuclear waste. I wonder what other countries are doing with their waste.

Gamma rays are one section of the electromagnetic spectrum, today we will cover other parts and in April the Ultra Violet section, the magic of fluorescence.

Wasn't it good to see Art Pitstick again? Art can no longer drive. Dave and Joyce Perry picked him up and brought him to the Feb. meeting. I think he had a good time. Thanks Dave & Joyce.

Our other visitor – Bryon Smith – found us through our web page. Bryon would like to become a member. Lets hope he does. We would have had another visitor who could not find us in Fairborn. He had found the club through the Midwest Federation web page. Hopefully that will be changed.

Hugh Fulton



MIAMI VALLEY MINERAL & GEM CLUB MINUTES - FEBRUARY 10, 2002

The meeting was called to order and Hugh Fulton announced that we needed to have our program before the business meeting since our speaker, Andreas Ruben had to meet someone at the airport.

Hugh Fulton asked the chaplain to lead us in devotions Udean Babyak read a card about living simply and another reading about healing. The president then introduced a visitor, Brian Smith, and Art Pitstick a former member.

Andreas Ruben presented a program on radioactivity and radioactive minerals. There was

also a display of radioactive minerals and instruments used to detect and measure radioactivity.

Following a recess for refreshments and to allow people to look at the displays, the business meeting was held. The minutes of the January meeting were read and approved as corrected. The treasurer's report was read and accepted.

COMMITTEE REPORTS:

LIBRARY: Dave Perry reported that the new copy of the Lapidary Journal had arrived;

SUNSHINE: Joyce Perry had talked with Emory Stewart who said Beth was in the Day Spring nursing home and was able to be up and around some. She would appreciate cards;

PROGRAM: Andreas Ruben reported a change in the March program. It will be held in the Business Center. The subject will be minerals and the electromagnetic spectrum.

CORRESPONDENCE: The Mid West Federation sent us a letter thanking us for our donation to the Scholarship Fund. Alan Cowan, our member in Canada, sent us some pictures.

We received a card from Paul and Elsie Smith
FIELD TRIPS: The Brukner Club continues to arrange field trips. On Feb. 16 there is a trip to Allison's in Sidney; on March 22nd, one to D. Picking & Co in Bucyrus, Oh; and on May 22nd to Flint Ridge. Information is available from Matt Kromphardt.

The spring banquet is set for April 13th at 6:00 at the Tapestry and Tales Tea Room in Springfield. Udean Babyak would like to receive reservations and your choice of entrees at the March meeting. Plans for our Swap and our Show are progressing. Help will be needed for the Swap set up on June 7th and the Show set up on Oct. 4th. Members were reminded that annual dues are due. Philipp Ruben agreed to serve as doorman at our new meeting place since we cannot leave the door unlocked as people arrive. The meeting was adjourned.

Richard Faux, Recording Secretary.



UPCOMING SHOWS & EVENTS:

- MARCH 8-10, RICHMOND, IN
EASTERN INDIANA GEM & GEOLOGICAL SOCIETY
WAYNE COUNTY FAIRGROUNDS
FRI 9-6 SAT 10-6 SUN 11-4
- MARCH 8-10, KANSAS CITY, MO
EARTH SCIENCE CLUB OF GREATER KANSAS CITY
FRI, SAT & SUN
- MARCH 16-17, HAMILTON, OH
FORT HAMILTON GEM & MINERAL SOCIETY
BUTLER COUNTY FAIRGROUNDS; SAT & SUN 10-6
- MARCH 16-17, 2002, CANTON, OH
35TH ANNUAL GEM & MINERAL SHOW
STARK COUNTY GEM & MINERAL CLUB
SAT 10 AM - 6 PM SUN 10 AM - 5 PM
- APRIL 6-7, COLUMBUS, OH
COLUMBUS ROCK & MINERAL SOCIETY
NORTH HALL VETERANS MEMORIAL; SAT 10 - 7 SUN 11 - 5
- APRIL 27-29, TROY, OH
TROY GEM, MINERAL, FOSSIL & JEWELRY SHOW
JUNIOR FAIR BUILDING, MIAMI COUNTY FAIRGROUNDS,
COUNTY ROAD 23-A
SAT 9 AM - 6 PM, SUN 10 AM - 5 PM
- MAY 25-26 , DAYTON, OH
DAYTON GEM MINERAL SOCIETY. SHOW AT DAYTON ART-IN-
THE-PARK, RIVERBEND ART CENTER, 1301 E. SEIBENTHALER
RD., DAYTON
- JUNE 8-9, 2002, DONNELSVILLE, OH
MIAMI VALLEY MINERAL AND GEM CLUB ANNUAL SWAP AND
CRAFT SHOW
- JULY 18-21, 2002, PORT TOWNSEND, WA
NFMS AND AFMS GEM AND MINERAL EXTRAVAGANZA

VICTORIAN GEMS "A STEP IN TIME"; SPONSORED BY
PORT TOWNSEND ROCK CLUB; JEFFERSON CO. FAIRGROUNDS

- OCTOBER 5-6, 2002, FAIRBORN, OH
MIAMI VALLEY MINERAL AND GEM CLUB ANNUAL SHOW



MIDWEST FEDERATION NEWS



The following programs are recent additions to MWF Program Library:

#211. Rockhounding in Upper Peninsula, Michigan and Ontario - 102 slides

V70. Rainbow of Stone VHS Video 40 minutes.
"A journey through Deep Time..." into the Grand Canyon.

V71. The Rock Cycle VHS video 30 minutes.

V72. Yellowstone: Imprints of Geologic Time
VHS video 27 minutes. An exploration of the complex geologic history recorded in fossils, petrified forests, spectacular landforms and the constantly evolving landscape of the first National Park.

Attention MWF Clubs

When your Club Treasurer receives acknowledgement of your Club's dues and/or Insurance payment he or she will also receive a copy of the newly revised MWF Operating Manual. This copy of the OP Manual is for your Club, not for the Treasurer or any individual club member. Please see that it is made available to any member who might need it. Thank You.

Via MWF Newsletter 03/02

Electromagnetic Spectrum By Hugh Fulton

Swedish physicist Anders Jonas Angstrom (1814-1874) provided the foundation for spectrum analysis (analysis of the ranges of electromagnetic radiation emitted or absorbed). He investigated the sun spectra, he also established measurements for wave length, for which in 1907 he was honored when the Angstrom (A, equal to 10^{-10} degree M0 a unit of wavelength, was officially adopted. These units measure cosmic rays, gamma rays, X-rays, ultra violet, and the visible spectrum and infrared. The hertzian waves of radar, TV and radio are measured in cycles per second.

Ether, a hypothetical substance, once presumed to occupy all space and account for the propagation of electronic magnetic radiation through space. This theory was laid to rest in 1881 by physicists Albert Michelson and E. W. Morley in the United States their experiments on light waves led to the development of Einstein's theory of relativity. Albert Einstein proposed the speed of light is a universal constant 186,282 miles per second.

Cosmic rays are radiation from inter stellar space. Gamma rays emitted by radioactive atoms – radium and were covered in last month's program. X-rays from X-ray tubes arcs lamps similar to light but of shorter wavelength and capable of petra tiny solids and of ionizing gases as in Television sets cathode ray tube.

Ultra Violet rays from the sun, arcs, lamps, tubes. The ultraviolet region rings from shortest violet wavelengths of light that can be seen at about 4000A down to 100A. This spectrum is the subject of the April program.

The visible spectrum, white light is a mixture of wavelengths from about 4000A to 7000A. The wavelength of light determines its color. The color of an object depends on the color or wavelengths of light it reflects and transmits. A black light absorbs essentially all of the wavelengths of light. The absorbed light turns to heat. You can see this by wearing black

clothing out in the sunlight. White clothing reflects essentially all of the wavelengths and is therefore cooler. White light can be separated into its various colors: red, orange, yellow, green, blue and violet.

The infrared section of invisible spectrum is 10,000 to 100,000A. Infra from Greek = below and red puts it next to the visible red waves. Infrared results in heat from the sun, arcs or tubes.

Next come the Hertzian waves named for Heinrich Rudolph Hertz 1857-94, a Germany physicist. Measured in hertz or (KC) kilocycles per second and (M C) megacycles per second. Included her are radar, television and the standard radio broadcasts.

Micro from the Greek meaning small, we have microwave, an electromagnetic wave of extremely high frequency usually having a wavelength of 1 millimeter to 50 centimeters.

You probably have a microwave oven using high frequency waves that penetrate food causing its molecules to vibrate, generating heat within the food to cook it in a very short time.

Laser, an acronym for "Light Amplification by stimulated emission of radiation." It is a device that produces a narrow, uniform, high-intensity beam of light made up of one very pure color (one wavelength) that can be directed over small and large distances.

This pretty much covers the Electromagnetic spectrum. What does this have to do with rocks and minerals, well you can't have one without the other.

References: The Handy Science Answer Book compiled by the Science and Technology Dept. of Carnegie Library of Pittsburgh, 1997; The Story of Fluorescence by Harry C. Wain, 1965, published by Raytech Equipment Co.; The Random House College Dictionary, 1980.



**April meeting -
Program: Fluorescence**

**April Refreshments:
Ruben's
Jane Freese**



Middle Age is when your legs buckle And your belt won't

Via Dusty Rocks 02/02



BOZONE WARNING: Bozone (n.) is the substance surrounding idiots that stops bright ideas from penetrating. The bozone layer, unfortunately, shows little sign of breaking down in the near future.

From The Pegmatite 11/01, Via The Show Me Geode 02/02



Field Trip March 22nd

We will visit D. Picking & Co., on Friday afternoon March 22nd. D. Picking & Company makes hand hammered copper kettles for the candy industry.

DIRECTIONS:

D. Picking & Co. is located at 119 South Walnut Street, Bucyrus, OH. Walnut Street is one block east of the main street, Sandusky Avenue, which in downtown Bucyrus is St. Rt. 4 & 98.

Plan to arrive by 12:30 P.M.

Suggested restaurant for lunch: Bob Evans, St. Rt. 4 & US 30, 1517 N. Sandusky Ave.,

Neil Reeder
Field Trip Chairman

American Federation News



Students receiving AFMS Scholarship Foundation Grants from the Midwest Federation:

Matthew Strine received his B.S. in Geology at Oberlin College in Ohio; his M.S. in Geology at the University of Rochester, NY, where he continues his studies for his Ph.D. in Geology. He has done research of the structural history of the NW Highlands of Scotland with a focus on the Moine Thrust.

Melissa Berke graduated from Oberlin College, Ohio, with honors and continues her studies for a M.S. in Geochemistry at the University of California at Riverside. Her research project concerns carbonate sedimentology/geochemistry as they apply to the stromatolites being studied.

Receiving the second year of their grants, Jeffrey M. Schwartz continues his studies for his M.S. in Geology at the University of Washington, Seattle; Robert Graves continues work on his M.S. in Geology at the University of Nevada, Reno.

Via AFMS Newsletter 02/02

Lewis and Clark Signature Events

Studying the Lewis and Clark Expedition on the Internet, you will find the northwest Regional Education Laboratory site (<http://www.nwrel.org/teachlewisandclark/home.html>). NWREL is a highly respected, federally funded educational agency for the Great Northwest that "improves educational results for children, youth, and adults."

The National Council of the Lewis and Clark bicentennial has invited us to "learn all we can" by attending the Signature Events planned around the United States to commemorate the Lewis and Clark Bicentennial. There are 14 Signature Events planned. Each ..was chosen for its place in the expedition's chronology, its historical relevance, cultural diversity, tribal

involvement, geographic location, and sponsoring organizations' capacity." Visit the national Council of the Lewis and Clark Bicentennial website at www.lewisandclark200.org for more specific information on each event and to keep up to date with changes and additions.

1. Bicentennial Kick-Off January 18, 2003, Monticello, Charlottesville, VA.
2. Falls of the Ohio October 24-26, 2003, Louisville, KY & Clarksville, IN
3. Three Flags Ceremony/Expedition Departure, Spring, 2004, St. Louis, MO, Hartford/Wood River, IL, and St. Charles, MO
4. A Journey Fourth July 3-4, 2004 Atchison and Fort Leavenworth, KS, and Kansas City, MO
5. Tribal Council July 30 to Aug 3, 2004, Omaha, NB
6. Circle of Cultures, Time of Renewal and Exchange Late Fall, 2004, Bismarck, ND
7. Discovering the Big Sky July 3-4, 2005, Great Falls, MT
8. Destination 2005: The Pacific Fall, 2005, Lower Columbia, OR or WA
9. Clark on the Yellowstone July 25, 2006, Pompey's Pillar, Billings, MT
10. Home of Sakakawea August 17-20, 2006, New Town, ND
11. Summer 2004: Dakota/Lakota/Nakota Tribes and the State of SD
12. Spring 2006: The Nez Perce Tribe and the State of ID
13. Early Fall 2006: City of St. Louis, MO
14. Late Fall 2006: City of Philadelphia, PA

Those of you who attend any of these functions can help all the rest of us learn more by reporting what you learn about rocks, minerals, and fossils related to that site and event. Write us an informal and informative friendly letter that begins, "Dear Rockhound Friends." Send your letter to the AFMS Lewis and Clark Committee at MissAgate@aol.com or Brenda

Hankins, 1041 Raintree Dr. N. Pelahatchie, MS 39145-2910

Dare Devil Faceters Donate Gem

The Dare Devil Faceters have donated one of their gemstones to the AFMS Scholarship Foundation. Dubbed the "Dare Devil", it is a 5,854 carat salmon colored Cubic Zirconia. And, best of all, you can own the stone!

The "Dare Devil" can be yours if you hold the lucky ticket when it is drawn at the AFMS Convention in Port Townsend this July. Tickets are \$5 each or 5 for \$20. All proceeds will go to the AFMS Scholarship Foundation. You can purchase a ticket at any Federation show or by mail simply by sending your check, payable to "AFMS Scholarship Foundation" to Jon Spunaugle, AFMS Scholarship President, 1000 SE 144th Ct, Vancouver, WA 98868-7033. Be sure to include your name, address and phone number and a stamped self-addressed envelope with your request. Your ticket stubs will be sent by return mail.

Via AFMS Newsletter 03/02



BOOK REPORT

By Udean S. Babyak

May 1 is my birthday and Taurus is my astrological sign. In the book, "Legends of Gems" by H.L. Thomson it names my birthstones as emerald and carnelian. I was interested in the legends of carnelian. "Among the Greeks, who had a different stone for each day of the week, the carnelian was chosen for the first day" (p. 36). Ancient people believed it assured anyone wearing a carnelian would be granted every wish. Carnelian was the Arab's favorite stone. The Israelites during the forty years in the desert with Moses carried carnelian in a little leather bag called an amulet around their necks as symbols of patience and hope. Napoleon wore a carnelian scarab as a watch charm to insure immortal life. "The medicinal

value of carnelian was supposed to lie in the power to stop hemorrhages and to reduce inflammation and congestion. Toothpicks of carnelian were prized for their prevention of the bleeding of gums" (p. 38). The book also contains the legends of other birthstones.

Included in this same book is a section, "Gems - How to Know and Cut Them." It explains the dichroscope, an instrument, I believe, one could make oneself. It tells instantly "whether or not a stone has the property of presenting different colors by transmitted light" (p. 85). It can assist the novice by telling the difference between a real or fake gem. The tests for the hardness of stones, the methods of cutting stone, the home lapidary, a list of stones found in California by county, the hardness of gem stones, a list of gems by color, and a conversion table of Troy or Jewelers' Weight are included in this section of the book.

The copyright date is 1937; however, I found this book to be very interesting and helpful to me in my wearing of healing stones for medicinal purposes. I'm also planning a display using this theme for the 2002 Annual Miami Valley Mineral & Gem Club Show on October 5 and 6.



I (your editor) received the following email I thought the club might be interested in:

Carolina Emerald Mine & Vein Mt.
Gold Camp
1694 Polly Spout Rd. Marion NC 28752
Ph. 828-738-9544
Website: home.wnclink.com/gemmine
Email gemmine@wnclink.com

Dear Editor,

First we would like to introduce our mine and invite you or your emissary for a free day of

prospecting. After this day of prospecting you too will agree what makes Carolina Emerald Mine & Vein Mt. Gold Camp unique from any other mine is the richness and variety of natural crystals you can find. Rock hounding and gold prospecting is a hobby that continues to grow each year. Prospecting for nature's unfound treasures is not only educational but a wonderful way for a group to spend the day or weekend! Here at Carolina Emerald Mine we have the facilities, knowledge and patience to provide your group with a memorable outing.

In 1995 the property was purchased for its placer gold reserves to be worked recreationally. Emeralds were discovered by accident, by a gold prospector looking for a gold bearing vein. After four years of prospecting, many stratified granite pegmatite veins have been located. Continued prospecting has identified over sixty types of crystals to date in our section of the valley and our knowledge along with additional crystal identification continues.

Come and enjoy our water flume, or pan gold in our roofed in panning area. Prospect our 4200 feet of streams for both natural crystals and gold. Both natural mine run along with international bucket material is available. Our facilities are handicap assessable and we can accommodate groups of any size while still catering to the individual. Day rates are available at our web site and group rates can be obtained through contacting Don Davidson via phone or email. Come and enjoy Carolina Emerald Mine and Vein Mt. Gold Camp where our belief is that "only through continuing education and acquisition of knowledge can a deeper appreciation of geology be reached".

Sincerely, Yours
Don Davidson
Owner & Operator

Here are 10 questions. You only need to answer 5 correctly to pass.

- 1) How long did the Hundred Years War last?
- 2) Which country makes Panama hats?
- 3) From which animal do we get catgut?
- 4) In which month do Russians celebrate the October Revolution?
- 5) What is a camel's hairbrush made of?
- 6) The Canary Islands in the Pacific are named after what animal?
- 7) What was King George VI's first name?
- 8) What color is a purple finch?
- 9) Where are Chinese gooseberries from?
- 10) How long did the Thirty Years War last?

All done? Check your answers on page 10.

Via *The Internet*, via *The Chiseler* 03/02



Curiosity

It wasn't Chernobyl or 3 Mile Island, but it was the worst nuclear disaster in Brazil. A scrap-metal dealer opened an old radiotherapy machine to discover a small capsule with an odd bluish gleam. He opened the capsule and found a powdery substance. He showed this capsule to his family, relatives and friends, contaminating more than 200 people and seriously injuring or killing 20 persons. Inside the capsule was radioactive cesium 137.

Via *Tidbits of Wayne County, Issue #148*



Perlite: (rhyolite)

Lave, at least the type called popcorn mineral, or pearlstone, is one of the most surprising actors of the entire mineral kingdom.

Being a highly hydrated variety of lava, it expands with almost explosive force when brought quickly under high temperatures of between 1600 and 1700 degrees Celsius. It is found in a number of localities in our western mountains and some of the best deposits are located near Lovelock, Nevada, and Grant, New Mexico. A carload of crushed perlite, when expanded, produces between 10 and 12 carloads of plaster making aggregate, and a cubic foot of the expanded pellets may weight as little as two pounds. Almost unbelievable, it will expand up to 20 times its original volume.

From Mineralog 04;/96, via The Laphound News 10/01 via Surrey Rockhounder 10/01, via Nickelbasin Rockhound 11/01



Miami Valley Mineral & Gem Club 2002 Annual Spring Banquet

Celebrating its Golden Anniversary

When: April 13, 2002
6:00 fellowship
6:30 dinner

Where: Tapestry & Tales T-Room
14 East Main Street
Springfield, Ohio

What: Parmesan Encrusted Chicken
or
Baked White Fish Almondine

Who: All members

Salad, Accompaniment, & vegetable to be determined at the March 10, 2002 meeting.

Reservations to Joyce Perry 1-937-372-8228
or
Udean Babyak 1-937-322-0443

BECKY DOBBS - EDITOR
2792 GREYSTOKE DR.
XENIA, OH 45385

SAVE COMMEMORATIVE STAMPS

Answers to the quiz on Page 9:

- 1) 116 years
- 2) Ecuador
- 3) Sheep and Horses
- 4) November
- 5) Squirrel fur
- 6) Dogs
- 7) Albert
- 8) Crimson
- 9) New Zealand
- 10) Thirty years

How'd you do?



HAPPY
ST.
PATRICK'S
DAY!

HAPPY EASTER!