

The Petoskey Stone

Oakland County Earth Science Club
www.OCESC.com

December 2009

Club Banquet Second Wednesday!

Dec. 9th
6:30

note that the
second
Wednesday is
our banquet,
and 6:30 is our
starting time

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are needed to see this picture.

Merry
Christmas

December Club Program

Hi Club Members,

Sorry I could not be with you at the last meeting. I heard everything went well and everyone had a good time. Thank you for the calls regarding my absence, they were appreciated.

I think it's great that we brought in another 5 members. Welcome to our club.

Our December meeting will be on the second Wednesday Dec 9. We will have our POT LUCK BANQUET, please count 50 guests prox. Please check with Kathryn Van Hoy to see what we need, or if you have forgotten what you said you would bring. Cooks, don't forget we often ask for recipes.

Cathy Roller will be doing the program on LASSEN VOLCANIC NAT. PK.

Thank you Leon for taking care of the ham and chicken for our feast.

The Holidays are upon us. I hope everyone has a great Thanksgiving.

Betty Cockerham
Refreshment & Program Chairman

A RING OF FIRE

Lassen Peak is on the southern end of a long string of volcanoes, a chain of 15 great peaks and hundreds of smaller ones that stretch from Lassen Volcanic National Park (in northern California) to Mt. Garibaldi in British Columbia, Canada. These are part of the "Ring of Fire", a thousand or so volcanoes that

encircle most of the Pacific Ocean. Most of these peaks are composite volcanoes, made up of hundreds of layers of lava that erupts periodically and has built enormous mountains. Mt. Rainier in Washington and Mt. Hood in Oregon are good examples of these giant volcanoes. Lassen Peak is different--it is not made up of many individual layers, but of pasty lava that squeezed up like toothpaste coming out of a tube, then solidified into a dome over its vent.

ALL FOUR ARE AT LASSEN

There are four types of volcanoes, and Lassen Volcanic National Park has all four kinds. Each is defined by its silica content, temperature, and gas content. The higher the silica and lower the temperature, the less fluid the lava.

A Plug Dome Volcano grows largely by expansion from within. As it grows, its outer surface cools and hardens, then shatters, spilling loose fragments down its sides.

A Composite Volcano is typically steep-sided, has symmetrical cones of large dimension built of alternating layers of lava flows and pyroclastic layers.

A Shield Volcano has flow after flow of liquid lava building a broad gently sloping cone with the profile like a shield (Mauna Loa in Hawaii).

The Cinder Cone Volcano has layers of cinders blown out by volcanic gases.

Submitted by Cathy Roller, extract from--
"Lassen Volcanic National Park" by Larry Eifert

Upcoming Events (more events can be found at www.rockngem.com or <http://www.amfed.org/mwf/Calendar/>) For detailed information, please visit the club's website.

January 2010: starting Wednesday, January 13th in the CAI club room, for club members. Classes will run for 8 weeks on Wednesday night from 7:00 to 9:00, except on Club meeting nights. The charge is \$35.00. If you have tools you are welcome to bring them. If you do not, I have whatever you will need. Silver and stones for making the jewelry are included in the cost of the class. Contact Eleanor Snyder if interested.

Jan-Feb 2010: Mt Clemens Gem & Lap. Soc Rock and Mineral workshop, classes to assist students grades 3-6 in Science Olympiad competition. Info- Sandra Chownyk, 586-469-2939, yourhobby@yahoo.com

2010 Refreshments

Jan. Jane ___ & Linda Whitehead
Feb. Phyllis Keene, Debbie Rathburn, Lynette West
Mar. Linda ___, Eric ___
April Chris Schull, Sue Klopfer
May Jackie Presson, Monica Rowe
June Banquet
Sept.09 Nancy Mathura, Betty Cockerham
Oct. 09 Betty Cockerham
Nov. 09 Marie P, Nancy Lill
Dec. 09 Club Potluck

2010 Programs

Jan. _____(available)
Feb. Roberta Thomas - Selenite
Mar. Dwight Keith
April Silent Auction
May _____(available)
June _____(available)
Sept.09 Members' Trips and Projects
Oct. 09 Nancy Mathura, Dwight Keith
Nov. 09 Club Member Swap/Sale
Dec. 09 Cathy Roller – Lassen Volcanic park
Please look over this list and see if you can fill in somewhere. Remember you do not have to do a program yourself. You can elect to be responsible for getting a speaker or a video etc.
--Betty Cockerham, Program Chair

December Birthdays

2 NANCY LILL
6 MIKE BRADY
11 LEON PEARSON
18 WAYNE O'NEIL (ALMOST 2)
21 ERWIN KLOPFER
28 CATHY ROLLER

Welcome our new members

PEG HILL
6220 NEILSON
DAVIDISBURG, MI 48350
248 620 9811

EDWARD & KERRE O'NEIL
8764 CALVERT DR.
STERLING HGTS. 48312
586 838 4816

LORRAINE JANES
4974 LOMLEY AVE.
WATERFORD, MI 48329
248 802 5581 (CELL)

[A good conscience is a continual Christmas.](#)

[Benjamin Franklin \(1706 - 1790\)](#)

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OCES Board Meeting November 4, 2009. Meeting called to order 6:33 pm by President, Jim Rives. Attendance Nancy Pfauth, Gerry Runkle, Tom Pierson, Leon Pearson, Jim Rives, Tony West, Eleanor Snyder, Katherine Van Hoy, Dwight Keith, Dan Worner, Eric Palmer, Roberta Thomas. Meeting called to order 6:33 pm by president, Jim Rives. Opening remarks made concerning the MMS show held this year at the Gibraltar Trade Center were, that over all most people seem to like the location and the facilities. Also it was mentioned that there were approximately 1600 school children that attended on Friday. Although our club did not do as well this year as we did last year, it was still very profitable. Motion made, voted on and approved to accept the secretary's report as it appeared in the Petoskey Stone. Treasurer's report read by Leon Pearson. Motion made, voted on and approved to accept the report as read. Anyone needing to see a copy of the treasurer's report contact Leon Pearson. Leon has advised the board of a slight increase in our dues to the Midwest Federation. These are due January 2010. Grinding room report is excellent. We had nine people in attendance. There is a need for a new 10" diamond blade, also a 14" blade. Motion made seconded and voted on to negotiate for the two blades. Sometimes it is cheaper to order 3 blades at a time. Amended motion made, seconded and voted on to release \$300 for the purchase of said blades. No library report available at this time due to health problems of our librarian Nancy Mathura. Doctor is seeking to regulate medication for Lupus. An assistant librarian would be a great help. No field trips are in the works at this time. MMS will be having their annual auction this Monday, November 9 at Cranbrook. Those interested are invited. Specimen viewing begins at 7 pm. Auction starts at 7:30 pm. Katherine Van Hoy displayed some rock/minerals that they are sending to a boy in Oklahoma who is attempting to receive samples from each state for a school project. Discussion of the club becoming a charitable organization has been brought before the board once again because in the past the club had items donated and there was a request for a receipt. The first step is to become incorporated. In the past the club has contacted the state and found out that since we have already been meeting as a club for some time there would be numerous fines to be paid at considerable cost. Also to meet the necessary requirements, it would be advisable to hire an attorney. Again a costly factor. Since this is quite cost prohibitive, it would be to our best interests to remain as a "hobby club." Our constitution at present states that we will become a charitable organization; therefore, it will be necessary to make a change in the constitution. Leon Pearson will contact Cathy Roller. A reminder that for our December meeting will be held on the 9th, the second Wednesday of the month. This is our Christmas banquet to be enjoyed by all. The meat will be furnished by the club. Meeting adjourned 7:33 pm.

OCES General Meeting Minutes November 4, 2009. Meeting called to order 7:43 pm by president, Jim Rives. New members are introduced: Edward and Kerre O'Neil and Julianna Powell with her two children, Brian and Alex. Welcome to the club. Motion was made, seconded and approved to accept the secretary's report as it appeared in the Petoskey Stone. Treasurer's report given by Leon Pearson. Motion made, seconded and approved to accept the report as read. The library will not be opened tonight since Nancy Mathura, our librarian is unable to attend this evening due to illness. She has been diagnosed with Lupus. It would be very helpful if we had an assistant librarian. We wish to thank Linda Whitehead for volunteering to fill this need. Our grinding room report is

excellent. There were nine people in attendance. Any member is welcome to use the facilities. Remember that each person is required to pay \$1. This goes to the CAI building for use of the room. Eleanor Snyder will begin a silver smithing class in January. Our elections are coming up and it will be necessary to fill three seats on the board and to elect a secretary. Keep this in mind and come ready to elect someone or volunteer for these positions. We wish to thank Marie and Nancy for refreshments this evening. There will be no speaker since it will be members swap and sale night. Please be sure to remember that our Christmas banquet will be on **THE SECOND WEDNESDAY OF THE MONTH, the 9th at 6:30 pm.** The banquet is potluck with the meat being furnished by the club. A sheet will be passed so you can write down what dish you plan to bring. George Matyas as a representative from MMS thanked the club for our help in setting up in preparation for the show. And also for our selling tables. It is uncertain at this time whether or not the show will be held at the same location, but there were many favorable comments about the Gibraltar Trade center. The Taylor Rock Club will be holding their auction this Saturday, November 7 at Wick Road. Also MMS will be having their auction at Cranbrook on Monday, November 9th. Rock/mineral viewing open at 7 pm. Auction begins at 7:30 pm. Further information on Petoskey Stone web site. Meeting adjourned 8:03 pm. Respectfully submitted, Roberta Thomas, secretary.

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Midwest Federation CANCELLED STAMP COMMITTEE

How Can I Help?

by Lyle & Colleen Kugler

MWF Newsletter, Sept., Oct., Nov. 2009

You ask, "How can our club help?" Step number one in helping the MWF Cancelled Stamp Committee is to GET YOUR CLUB INVOLVED! This month the Cancelled Stamp Committee offers a suggestion to get you started. We recommend you appoint someone in your club to be in charge of collecting the stamps. We suggest taking a 5 by 7 inch manila envelope to your club's meeting each month and collect any cancelled stamps your members bring in. Reminders in your newsletter will help keep the idea active, and thus getting your members in the habit of taking stamps to the meeting. When the envelope gets full, send it in.

What do we do with the cancelled stamps? We make bookmarks with them. When

received, the stamps are sorted, soaked off the paper and dried, sorted again, affixed to cardstock, and laminated to make bookmarks. The bookmarks are sold to benefit the MWF Endowment Fund.

Step 2

Alright! You have your club involved. You are now on your way to collecting cancelled stamps for bookmarks. Now what? The next step is to collect the stamps. Many club members just tear the stamp corner off the envelope. Tearing is just fine as long as when you are tearing you don't tear the stamp. The same is true for cutting. We recently received a wonderful batch of stamps but about one-fourth of the stamps had been trimmed from the envelopes, taking a portion of the stamp, too. Whether tearing or cutting we need about 1/4 inch of paper left around the stamp. This gives us something to grasp when we are soaking the stamp from the paper. This is especially necessary with the newer pre-glued stamps that are very sticky. Also, it is easier to soak the stamps from the paper if it is only one thickness of the envelope, so just the front portion of the envelope is good. This also means you can save money at the post office because the package weighs less.

Next month we will cover how you can help with the sorting process. So – HOW CAN YOU HELP? Step number two in helping the MWF Cancelled Stamp Committee is to COLLECT STAMPS!

Step 3

You now have a nice collection of cancelled stamps. What do you do with them? As I Stated last month, you will save money on postage if you take an extra step- sorting – before you send the stamps to us. Sort through the stamps and remove:

- any that have tape on them
- any that are severely torn, if just a tiny piece is missing, we can use them.
- Any that are extremely cancelled (Double stamped or very dark ink)
- Some of the regular issue stamps such as flags, flowers, etc.-- we get lots of these-- sending a limited amount of these would be quite helpful.

We know this can be kind of confusing, so if you have doubts, just send the stamps and we can take care of them. Again, if you would send only one thickness of envelope that would be a savings to you and a great help to us. So “how can you help?” Step number 3 is sort your stamps! Next month (December MWF newsletter) we will cover more of the process we use to prepare the stamps for the bookmarks.

Send **cancelled postage stamps**

for the Endowment Fund to:

Lyle Kugler
612 S.E. 3rd St.
Aledo, IL 61231

Bits

Endust will help fossils for display

Look clean and detailed. It gets rid of the unwanted shine. It is also great for bringing the colors out on a prize agate that the owner hates to cut and polish- (Sooner Rockologist, The Rockpile)

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Clear away road grime from your windshield wiper blades with vinegar or rubbing alcohol. Apply with a soft cloth or paper towel and keep cleaning the length of the blades until no more dirt comes off. You'll notice the smooth difference during the next rain. (T-Town Rockhound, The Rockpile)

In its native state gold is golden-yellow, but too soft to wear well. To increase its hardness gold is alloyed with other metals. Pale or white gold is silver, platinum, nickel or zinc added. Copper yields red or pink gold, and iron gives a blue tinge. The purity of alloyed gold is expressed as its carat (CT) value, defined as the proportion of pure gold present. Twenty-four carats equates to 100 percent gold. So, a piece of gold jewelry labeled "9-carat" is 9 parts out of 24 (i.e. 37 percent) pure gold. (Smithsonian Museum, Cedar Valley Gems, The Rockpile)



Rocky Clues to Ancient Hunters Extracted from article by Steve Pepple, www.mlive.com, June 2009

University of Michigan researchers have found the first archaeological evidence of ancient human hunting activity preserved under the Great Lakes. Using detailed government data on lake floor topography, a research vessel and a remote mini-rover equipped with a camera, scientists found what they believe are hunting pits, camps and rock structures called caribou "drive lines" on the bottom of Lake Huron.

Drive lines, also called drive lanes, are walls built of rocks that hunters used to lure caribou into ambush. A peculiarity of the deer species is that it readily follows linear cues, even though the rock walls are short enough to step over. The structures were found on an underwater ridge that about 9,000 years ago was a land bridge above water. The 1,148-foot "drive line" structure found by U-M researchers closely resembles one previously discovered on Victoria Island in the Canadian sub-arctic. "The reason this is really significant is this is a really important time period in human history in North America," said John O'Shea, curator of Great Lakes Archaeology in the U-M Museum of Anthropology and a professor of anthropology. The extreme cold and neutral fresh waters of the Great Lakes help to preserve such finds, O'Shea said. "All sorts of organic material may well be preserved," he said.

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A paper about the findings was published in the June 8 issue of Proceedings of the National Academy of Sciences. Co-authors are O'Shea and Guy Meadows, director of the Marine Hydrodynamics Laboratories and a professor in the departments of Naval Architecture and Marine Engineering, and Atmospheric, Oceanic and Space Sciences. They are also working with a computer science professor at Wayne State to model findings, work that also helped them select sites to begin investigating. O'Shea acknowledged finding artifacts such as tools or weapons would be the gold standards in proving those societies dwelled on the land now under the lake. The team plans to continue work this summer with divers, in hopes of finding such evidence.