



# THE TULIP CITY CONGLOMERATE

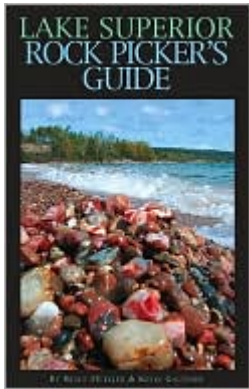


Bulletin of the Tulip City Gem & Mineral Club, PO Box 2082, Holland, Michigan

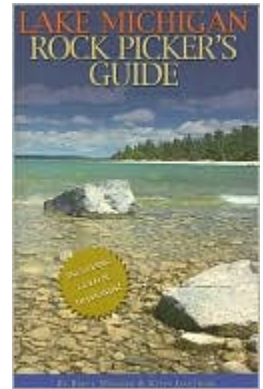
Website: [Tulipcity.org](http://Tulipcity.org)

October 2010

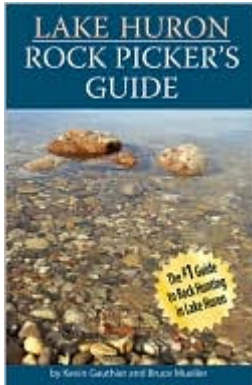
Volume 43, Edition 10



Witch  
way do I go?

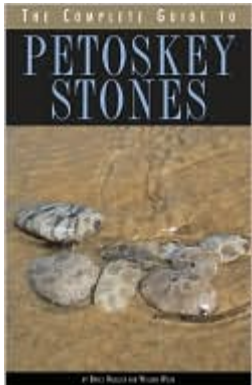


Come to the General Meeting  
Herrick Library Auditorium 7pm  
Guest Speaker: Bruce Mueller



When you think of geology, Michigan may not be the first state you think of, but the Great Lakes region is very unique. This month our speaker Bruce Mueller will educate us on some of the unique things Michigan has to offer. Bruce will discuss some geologic structures like the Michigan Basin and the Canadian Shield. Some items we may have seen in Michigan would be Puddingstones and Coral including our famous Petoskey Stone. We will learn more about what they are, how they got here and where we can find them.

Bruce has a master's degree in geology from the University of Illinois, but what I believe is more special is the fact that Bruce continues to apply his knowledge and he truly loves sharing it to the young and old. Bruce has co-authored a number of books like the ones shown here and he also owns the C&M Rock Shop in Honor, MI.



Bruce's rock shop has plenty of great items, but rocks don't make a rock shop, people do. When I first started thinking about polishing rocks, I didn't know the word lapidary. We stopped in to check out to rock shop. Like many, I asked how he polished the Petoskey's. Bruce not only took the time to explain what was needed and how it worked, but he took me in the back to see it actually done. By Dave Nienhuis

November 18, 2010  
**Silent Auction**

We need you to bring items to sell at the November General Meeting. Do you have extra specimens that may never see the light of day again? Well you can make a few extra \$\$\$ by bringing your rocks or rock-related items to sell at our Auction! This is a great way for beginning collectors to find some great deals.

**Easy to  
Buy &  
Sell**

**BOARD OF DIRECTORS**

President	Cindy Root	<a href="mailto:d-root@sbcglobal.net">d-root@sbcglobal.net</a>
Vice President	Dave Nienhuis	<a href="mailto:dpnienhu@sbcglobal.net">dpnienhu@sbcglobal.net</a>
Secretary	Jennifer Ensing	<a href="mailto:clutterandbling@yahoo.com">clutterandbling@yahoo.com</a>
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Field Trip Chair	Bob Sherwood	<a href="mailto:bobandjulia@accn.org">bobandjulia@accn.org</a>
Historian	Betty Hoekstra	<a href="mailto:kbhoek@att.net">kbhoek@att.net</a>
Jr. Club Co-Chair	Rick Smith Linda Winklemann	<a href="mailto:smithr@hope.edu">smithr@hope.edu</a> <a href="mailto:lindawinklemann@att.net">lindawinklemann@att.net</a>
Liaison Representative	Rebecca Cistaro	<a href="mailto:r4squares@charter.net">r4squares@charter.net</a>
Membership Delegate	Jodi Zenk	<a href="mailto:jodis50@charter.net">jodis50@charter.net</a>
Newsletter Editor	Karri Nienhuis	<a href="mailto:dpnienhu@sbcglobal.net">dpnienhu@sbcglobal.net</a>
Show Co-Chair	Shari Luttikhuisen Julia Sherwood	<a href="mailto:sluttikh@oaisd.org">sluttikh@oaisd.org</a> <a href="mailto:bobandjulia@accn.org">bobandjulia@accn.org</a>
Social Chair	Kathy Steffler	<a href="mailto:ksteffler@hughes.net">ksteffler@hughes.net</a>

**NOVEMBER BIRTHDAYS**Birthstone: **Topaz**

11/2 Esther Kirkendall  
 11/5 Jerry Slager  
 11/06 Dave Fetters  
 11/10 Louis DuPont  
 11/14 Andrew Silva  
 11/14 Mikaylah Nyhuis  
 11/15 Jenna DuPont  
 11/16 Jackson Sanford  
 11/17 Karen Hamlin  
 11/18 Donna Malina  
 11/23 Helen Mantooth  
 11/27 Tasman Mattox  
 11/28 Fec Mattox  
 11/29 Mark Cistaro

**NOVEMBER ANNIVERSARIES**

11/6 Rance & Anne Westover  
 11/17 Stephen & Karen Hamlin

**BOARD OF DIRECTOR NOMINEES FOR 2011**

President	Dave Nienhuis
Vice President	Open
Secretary	Cindy Root
Treasurer	Rebecca Cistaro
Directors at Large	Chris Cooper Open
Field Trip Coordinator	Bob Sherwood
Historian	Betty Hoekstra
Jr. Club Co-Chair	Rick Smith Linda Winklemann
Liaison Representative	Julia Sherwood
Membership Coordinator	Shari Luttikhuisen
Newsletter Editor	Karri Nienhuis
Social Chairperson	Esther Kirkendall
Show Chairperson	Open

Nominating Committee: Cindy Root,  
Karri Nienhuis and Julia Sherwood

If you would like to volunteer, or suggest a person for the 2011 Board, please contact a member of the above nominating committee.

We have again received a GENEROUS donation to the Tulip City Gem & Mineral Club from Bill & Linda Heyworth with Beauties of Creation. (They were dealers at our 2010 Club show.)

The Board decided to do another  
**BENEFIT RAFFLE!**  
(Proceeds for scholarships TBD.)

This Beautiful Citrine Cathedral could be yours, or a nice Christmas gift for a loved one!



Tulip City Members may purchase tickets at the Oct, Nov and Dec General Meetings. Drawing will be at the December 2010 General meeting.

Tickets are \$5 each.

## CLUB CALENDAR

October 13<sup>th</sup> - Board Meeting  
Library small meeting room 7pm

October 27<sup>th</sup> - General Meeting and  
GUEST SPEAKER BRUCE MUELLER  
HERRICK Library Auditorium 7pm

**HAPPY  
HALLOWEEN**



***DUE TO THE HOLIDAYS MEETINGS ARE  
AS FOLLOWS:***

November 3<sup>rd</sup> - Board Meeting  
Library small meeting room 7pm

November 18<sup>th</sup> - General Meeting, Elections  
and Silent Auction in the Herrick Library  
Auditorium 7pm (Auction set-up at 6:30pm)

December 1<sup>st</sup> - Board Meeting  
Library small meeting room 7pm

December 15<sup>th</sup> - General Meeting,  
Installation of Officers and Best of 2010  
contest in the Library Auditorium 7pm

Everyone is welcome to  
bring a snack or treat  
to the October Meeting!



## OTHER EVENTS:

- October 22-24 Central Michigan Lapidary & Mineral Soc. Show Mason, MI Ingham Co. Fairgrounds, 700 E Ash Street, Main Arena, Fri 6-9 Sat 10-7 Sun 11-5 Info: Allan 517-641-6125
- November:
  - 6: TAYLOR, MI, Annual Auction, Midwest Mineralogical & Lapidary Society, Democratic Club of Taylor, 23400 Wick Rd, Sat 6-10, Contact Cindy & Lou Talley, 30994 Dover, Garden City, MI 48135 (734) 525-1684, [cindylo0202@yahoo.com](mailto:cindylo0202@yahoo.com)
  - 6: BLOOMFIELD HILLS, MI, Annual Auction, Michigan Mineralogical Society, Cranbrook Institute of Science Auditorium, 39221 N Woodward Av, Mon 6:30, Contact: Mildred Hurt, 1211 E Maxlow, Hazel Park, MI 48030, (248) 398-6693, [georgematyas@att.net](mailto:georgematyas@att.net)
  - 6 & 7: MIDLAND, MI, Annual Show, Mid-Michigan Gemcraft & Mineral Society, Midland Resort & Convention Ctr, 1500 W Wackerly Rd, Sat 10-6 & Sun 10-4; Contact Deb at 989-430-4471, [jackdanred1@aol.com](mailto:jackdanred1@aol.com), or [www.midlandrockclub.com/index\\_files/Page663.htm](http://www.midlandrockclub.com/index_files/Page663.htm)
  - 20-21--MADISON, WISCONSIN: Show, "Rockin' Madison 50 Years"; Madison Gem & Mineral Club; Alliant Energy Center, 1919 Alliant Energy Center Way; Sat. 9:30-5, Sun. 10-5; adults \$3, children free; flintknapping and rock carving demonstrations, panning for gold and sapphires; contact Nevin Franke, Burnie's Rock Shop, 901 E. Johnson St., Madison, WI 53703, (608) 251-2601; email: [burniesrockshop@gmail.com](mailto:burniesrockshop@gmail.com); Web site: [www.madisonrockclub.org](http://www.madisonrockclub.org)

## WELCOME NEW MEMBERS

Who signed up at the  
TCG&M Club Show:

Ron, Rose, Jessica, Kayleigh,  
Conner and Rylee Brown, Zeeland, MI

Angela Hungerink, Holland, MI

Lisa Leggio, Cody Gutknecht, Angelica  
and Elijah, Holland, MI

Roger Nielsen, Spring Lake, MI

Teresa & Tony Payne, Battle Creek, MI  
Ray, Linda, Jaden, Owen, Austin, Jax and  
Lilja Plumert, Hudsonville, MI

Tim & Joy Sabo, Grand Haven, MI

Julie & Jeff Sanford, Spring Lake, MI

Jana Tafelski, Grand Haven, MI

Randy, Pam, Audrey Wedgwood,  
Holland, MI

The next meeting of the **West Michigan MWF Mineral Study Group** will be held on Nov 9, 2010 from 7pm to 9pm at the home of Doug and Elizabeth Howe, 4941 Riemen Dr. SE, Kentwood, MI 49508. We will be studying the ores of Iron. We like to start (and end) on time, but please do not arrive more than 20 minutes early. All West Michigan rockhounds are invited to attend. Please look up a few facts about the topic mineral, and hopefully bring along at least one specimen to let others look at (the more, the merrier). We hope you can join us for this learning opportunity. [kreigh@tomaszewski.net](mailto:kreigh@tomaszewski.net)

**BOARD MEETING MINUTES**

August 11, 2010



Present: Jim Benson; Jon Mull; Bob Sherwood; Julia Sherwood; Rick Smith; Kathy Steffler; Linda Winkelmann; Cindy Root  
 Absent: Rebecca Cistaro; Jennifer Ensing; Betty Hoekstra; Shari Luttikhuisen; Dave Nienhuis; Karri Nienhuis; Dave Root

The meeting was called to order at approximately 7:10 pm. Although a quorum was present, the documents to discuss were not available. Board members attending had a general discussion of items to be accomplished and the future of the Workshop. The meeting was adjourned at approximately 7:30 pm.

Respectfully submitted,  
 Cindy Root, Secretary pro tem

Note: Board Meetings are open to the Club members.

**GENERAL MEETING MINUTES**

August 25, 2010

Cindy Root called the meeting to order at 7:05 pm.

Visitors were welcomed and general announcements were made. Julia Sherwood discussed the evenings plan for the show set-up. Half of the people brought up displays and equipment from the basement and half filled grab bags with rocks. We then took a break and enjoyed snacks. The meeting was adjourned at 9 pm.

Respectfully submitted,  
 Cindy Root, Secretary pro tem



*Our sympathy to family and friends on the passing of Chester Cutshall (96) July 25, 2010. Chester was a long time Member of the Tulip City Gem & Mineral Club.*

**MINERALS AROUND THE HOUSE**

By Sam Stein (14 yrs)

In American households, many minerals are used. Most people use minerals every day without even realizing it. Among the minerals we use on a regular basis, these are foremost:

**Aluminum** is used as a building material because it is light and strong. It is also the most abundant mineral in earth's crust.

**Asbestos** is no longer in use due to links to lung cancer. However, it was used because it was flexible and heat resistant.

**Beryllium** is the source of emeralds and also used in fluorescent lamps and x-ray tubes.

**Coal** is used to produce 23% of the world's energy.

**Cobalt** is used in jet engines, paint dryers, and rechargeable batteries, among other things.

**Copper** is used as a conductor of electricity and also for construction and roofing.

**Feldspar** is used in concrete, glass, soap, and fertilizer.

**Gypsum** is used in plaster and prefabricated walls.

**Iron** is used in steel, fertilizer, and inks.

**Lead** is used in batteries, gas tanks, TV tubes, and gamma ray shielding.

**Limestone** is used in construction and sculpting.

**Lithium** is used in batteries and rocket propellants.

**Mica** is used in electrical insulation and paint.

**Nickel** is primarily used in the aerospace industry and as a component of stainless steel.

**Platinum** is used for jewelry and to control emissions.

**Salt** is used as a flavoring in food.

**Silicon** is used for the production of steel and aluminum alloys.

**Silver** is used in jewelry, photography and electronics.

**Sulfur** is used in fertilizer and explosives.

**Titanium** is a strong and lightweight metal used in aircraft.

**Tungsten** is used as a light bulb filament and in heat shielding.

**Zinc** is used as a protective coating for steel and as an alloy with copper to make brass.

Source: [www.Mii.org/commonminerals.php](http://www.Mii.org/commonminerals.php)  
 via July Strata Data

## FIELD TRIP TO LAFARGE QUARRY ALPENA, MICHIGAN, OCTOBER 2, 2010

By Ken Zeedyk

On October 10<sup>th</sup> of 2010 my family and I took our first field trip collecting rocks. Kamryn and I signed up to visit the Lafarge Quarry in Alpena at the Tulip City Gem and Mineral Club's fall show. We were even able to convince my wife Alicia to come along after explaining how fun and exciting the trip up north would be. We had never been to the upper east side of the state, so we thought it was a good opportunity to experience a new area of Michigan.



I also kind of led my wife on a bit about driving through elk country and being able to see some of these animals. Unfortunately all she ended up seeing was a stuffed one in a glass case in Atlanta. Guess I owe her a carriage ride in Hillman to view the elk next time we go that way. I would definitely return to the Alpena area given the opportunity, and hopefully next time it will be warm enough to explore Thunder Bay's many ship wrecks as well as fossil hunt. We stayed at the Days Inn on M32 just west of Alpena and were pleasantly surprised at how clean the hotel was. Kamryn also enjoyed the pool and I really appreciated the hot tub after bending over for four hours. The hotel was also conveniently located near Wal-Mart, Walgreens, and a few nice restaurants.

Bob Sherwood of Tulip City and June Downing of the Kalamazoo Geological and Mineral Society teamed up to coordinate the trip, and June was our field trip leader in Alpena. I didn't count how many people participated, but we had a good size caravan of vehicles go into the quarry. Most of the folks were from the Kalamazoo club, but I recognized a few who attend the Tulip City meetings. Don Oliver was our guide at Lafarge and proved to be very knowledgeable and helpful. He even gave Kamryn some fossilized sponges and algae that he found, as well as a blue piece of a fish fossil. The trip into the quarry lasted for about four hours, and during that time we had the opportunity to dig at two different locations. The first was on the far west side of the quarry. When we stepped out of the car to gear up we were literally standing on fossils. Petoskey corals were everywhere, and you could see them embedded in the large limestone boulders and strewn around all over on the ground. As Kamryn and I started in on the piles of rock we immediately started seeing brachiopods all over the place. I stayed in one spot while Kamryn started scrambling over the rocks like a little billy goat. Every 15 seconds Kamryn would exclaim about another cool find, and she quickly started filling up her bucket. Within five minutes of starting I found the head of a Phacops trilobite as I was picking through that first rock pile, and now I've got the itch to find a complete one. This was a really neat area that Don brought us to, and I could have spent hours on that one pile sifting through it. There are so many fossils that you could go back over an area you had just been through and find something totally new that you missed the first time. I definitely would go back here, especially after the winter when more fossils have the chance to weather out of the rock. The second location was on the side of the ramp leading into the deeper part of the quarry. I thought I heard someone call this "Brachiopod City" and we soon found out why. There were beautiful brachiopods everywhere, and they were so clean they looked like they had just been alive the day before. I started just scooping them up with my hands as a few other folks started shoveling the fossils and rock into buckets. June said they use this for the kids at their spring show to sift through, which I thought was a great idea. I would have geeked if I had the opportunity to dig through a bag of this material as a kid, and I can imagine other kids experience that feeling now because of the generosity of Lafarge and people in the club.

*Cont. pg 6*

Unfortunately we didn't come prepared to take that much rock back, so we had to be selective. As we climbed around on the piles we noticed Hexagonaria (Petoskey) coral everywhere again. At the top of one of the piles a gentleman from the Kalamazoo club showed us some fossils of what looked like baby Petoskeys as they had begun to form. These even had the stems of the coral head attached. After June rounded everyone up a little after 2pm Don caravanned us back out of the quarry to go our separate ways. June had organized a trip up to the Rockport quarry north of Alpena after the Lafarge visit, but we opted out. My back hurt after only four hours of stooping and hammering and we were hungry and a bit cold. Not having any restrooms in the quarry also encouraged us to hustle back to the hotel.

### ?? October Question of the Month??

Rugosa is an extinct order of C \_ \_ \_ \_?



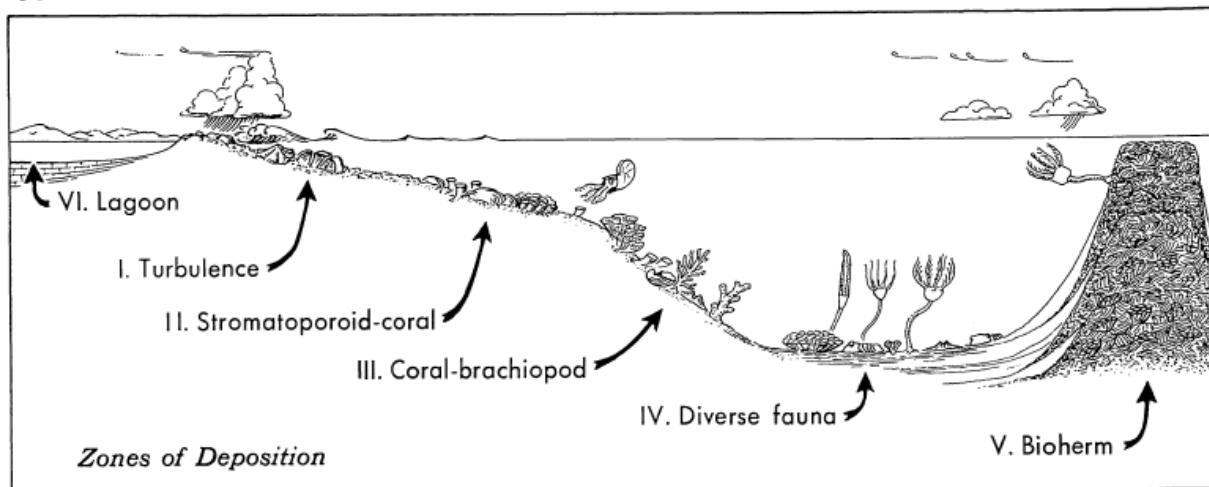
When you arrive to the Oct. General Meeting; write the answer and your name on a piece of paper (found near entrance of the auditorium) for your chance to win a prize.

After a quick clean up and hosing off of the Honda I ventured out to a roadside ditch off of Bagley Street north of the hotel. I had read about this site, and others, in *The Complete Guide to Michigan Fossils* by Joseph Kchodl. There were many other sites listed in this book, but since I am still a rock-puppy and not a fully fledged rock-hound I chose the closest one. This was a pretty amazing site, and during this visit and the return trip with Kamryn on Sunday morning we found many brachiopods and crinoids. I found a few nice water worn petoskeys in the bottom of the ditch, as well as a nice rough coral head embedded in the ditch side. I also found a really nice piece of what I think is pipe organ coral that cleaned up very nicely. The small park along the river was also very nice, and Kam and I did a bit of exploring along the river on Sunday morning.

Although we had been rock picking on the beaches many times, this was our first attempt at doing it seriously. I believe we picked a good field trip to start with, although the weather didn't fully cooperate. Good thing we brought along a few layers of clothing to keep us warm. We now have the safety gear, a couple rock picks, and some collecting experience under our belts. Hopefully we will have the opportunity to venture out on another collecting trip soon. Maybe I'll even get to find that complete Trilobite fossil that I am after.

*Photo on page 5 and above from Ken Zeedyk*

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For an excellent resource go to the below website and view the Adobe PDF file.

Title:  
Devonian Strata of Alpena and Presque Isle Counties, Michigan

By George M Ehlers and Robert V Kesling

**ENHYDRO AGATE** (“Water Agate” is [agate](#) that has water in it. The water inside the whole ones has been trapped there for millions of years. via Wikipedia)

These types of specimens are rare and highly prized by collectors. Like quartz crystals, agates may include a bubble of water sealed within the specimen. The bubble may be in a fixed position, or it may move about freely as the specimen is turned about. Usually the bubble is small, not over one-half inch in size, but some huge examples have been found.

At some of the agate localities in South America, hollow nodules of agate and chalcedony are found holding one quart of water or more. Usually the water in these enhydros is not visible, as the surrounding agate is quite opaque, but the shadow of water may be seen when the specimen is held close to a strong light, or the water will be heard to slosh around when shook. Enhydros are found at comparatively few localities. Along the Oregon beaches, near Newport, some interesting enhydros are found. These are casts of pseudomorphs (pseudos for short) of clams, oysters, and various other bivalves. They are sometimes termed fossil agates. The bivalves were likely first trapped in the sandstone or rock matrix, and the shell containing more or less calcium carbonate was dissolved away by acidic percolating waters, leaving its mold in matrix rock, to be later completely filled in by percolating waters carrying silica. Often these Oregon specimens are quite perfect but usually small, averaging not over two inches across, the bubble is generally visible, and may be stationary or moveable. In some specimens several small bubbles of water may be noted, each in its own separate compartment. The surrounding agate may be of a pale carnelian color.

Another notable locality for enhydros, is two miles east of Kalama, Washington. The specimens are small and rarely over one-half inch in diameter, but the locality is notable for the great number of specimens. The specimens occur in small cavities in the surrounding trap and basaltic rocks. The weathered out specimens being found in the rock slopes and in stream beds. The locality is described in Northwest Gem Trails (1950). The manner in which the water was trapped and sealed within the agate is one of speculation, but likely it represents a remnant of the original siliceous water which was carried in the agate.

Mrs. Kemp has a note on the bottom of her article that the information for it was taken from “The Agate Book” by HC Dake, and she goes on to write herself the following:

“I hope everyone has had the pleasure of seeing an enhydro. These agates are sometimes offered for sale at the rock dealers, but the price is usually high as they are rare.

Recently Russ and I had seen an unusually large, beautifully banded, grey and white Brazilian agate. It was 10 ½ inches in diameter and about 4 inches thick. A sealed crystalline center contained an estimated ounce or a little more, of trapped water. The crystalline center made the water easy to see and it could be heard easily when the specimen was shaken. This specimen was for sale and it was bought by the Lizzadro Museum of Lapidary Art for display. It will be mounted on a stand and will be able to be moved by the visitor, via a push button. The agate will rock and the water will move.

How lucky can a person be? The dealer who had this agate had it in his large saw and had removed several slabs and had gone as far as the vise would allow. He had to take the remaining agate specimen and reset it in the vise and as he moved it he noticed the water movement and realized he had a once in a lifetime find. He polished it on a flat lap and decided it would be for sale. He was pleased to know it would be in a museum where everyone can have the pleasure of seeing it.

How many enhydros are lost? How much water do you suppose falls from the cavities as we saw right through them? No one will ever know, but it does give us a hint to inspect our agates, particularly the lovely nodules from Brazil. As we slice to the center, watch those areas that could enclose water. Some craftsmen will take enhydro and grind off some of the outer layer of agate and polish it to make it easier to see the water move. Care must be taken...a fraction too close could open it and the water lost.

## OPAL

### Black and Light Opal

Black opals are the most prized of all opals. They range in price from under \$50 each to over \$1 million for rare collectors gems. Black opals are highly sought after because of their beauty - particularly red stones, which command the highest prices. Black opal is, in fact, not black but beautifully colored on a very dark (or black) background. The brighter and sharper the colors, the more valuable the stone. Occasionally, bright black opals will also display rare patterns. These are regarded as collectors' gems. Nearly all the world's black opal comes from one location - Lightning Ridge in New South Wales, Australia.

Light Opal comprises the majority of precious opal and comes from many areas, although currently most light opals found in Coober Pedy and Mintabis in South Australia. Light opal can display all the colors of the spectrum on a light or pale background. The terms red fire, orange fire and green fire refer to the dominant color in the stone, and multi-fire suggests a stone which has most colors without any particular color being prominent. Light crystal opal describes those stones which have a degree of transparency together with a sharpness of diffracted colors.

### Factors Determining the Value of Opal

The following criteria, along with the laws of supply and demand, are important when determining the value of an opal:

*Brilliance:* The degree of brightness is of paramount importance. An opal cannot be valuable without this attribute. A gem which glows but is average in all other respects will still command a high price, whereas a dull stone with a very good pattern will only bring an average price.

*Pattern:* Good patterns of diffracted colors, when combined with brilliance, have an enormous impact on the value of the stone. Pinfire and small patterns are less desirable than broad patterns or large flashes. Distinct patterns such as rolling flash, straw pattern, Chinese writing, ribbon, and harlequin are very rare and considered collectors' items.

*Body Color:* With black opal, the degree of darkness in the body color must be taken into consideration. The "blacker" the body color, the more valuable the gem.

*Transparency:* Light opal is more desirable when it has a degree of transparency. If lively, brilliant colors are present in crystal opals, they are more highly prized.

via The Conglomerate, April 2010

Website: [www.michmin.org](http://www.michmin.org)

### Treasure

By Elizabeth Martin

Some people search for diamonds,  
Some people search for gold.  
Some people only pick up rocks,  
At least that's what we're told.  
The diamonds make you famous,  
The gold you have to spend,  
The rocks just bring you pleasure  
And a host of happy friends!  
via Mountain Gem, July 2010



# Junior Rock Club Page

Junior Club Advisors  
Rick Smith and Linda Winkelmann



Our first meeting of the 2001-2011 season will be about Michigan rocks and minerals! The recently published book Michigan Rocks & Minerals by Dan and Bob Lynch lists more than 150 rocks and minerals—way more than we could possibly talk about in our October meeting! So we'll focus on a handful of Michigan rocks and minerals that have had—and still have—an important economic impact on our state. We'll see you on October 27 at Herrick Library. In the mean time see if you can unscramble the names of the Michigan rocks and minerals below.

IAMTEETH	_____	ELITHORY	_____
ATHILE	_____	LOITOMED	_____
RETCH	_____	APRAISET	_____
PAJERS	_____	GETITAMAN	_____



*Don't make a BOO BOO and forget to renew!*

## TULIP CITY GEM & MINERAL CLUB MEMBERSHIP RENEWAL FORM

DUES DEADLINE - December 31, 2010

Mail to: **Jim Benson**  
172 Elm Lane  
Holland, MI 49424

Make check payable to: TCG&M Club

Circle Interests:  
Minerals, Fossils,  
Lapidary, Field Trips,  
Club Office

Check membership type:  Individual - \$15     Family - \$20

Name \_\_\_\_\_

Address \_\_\_\_\_

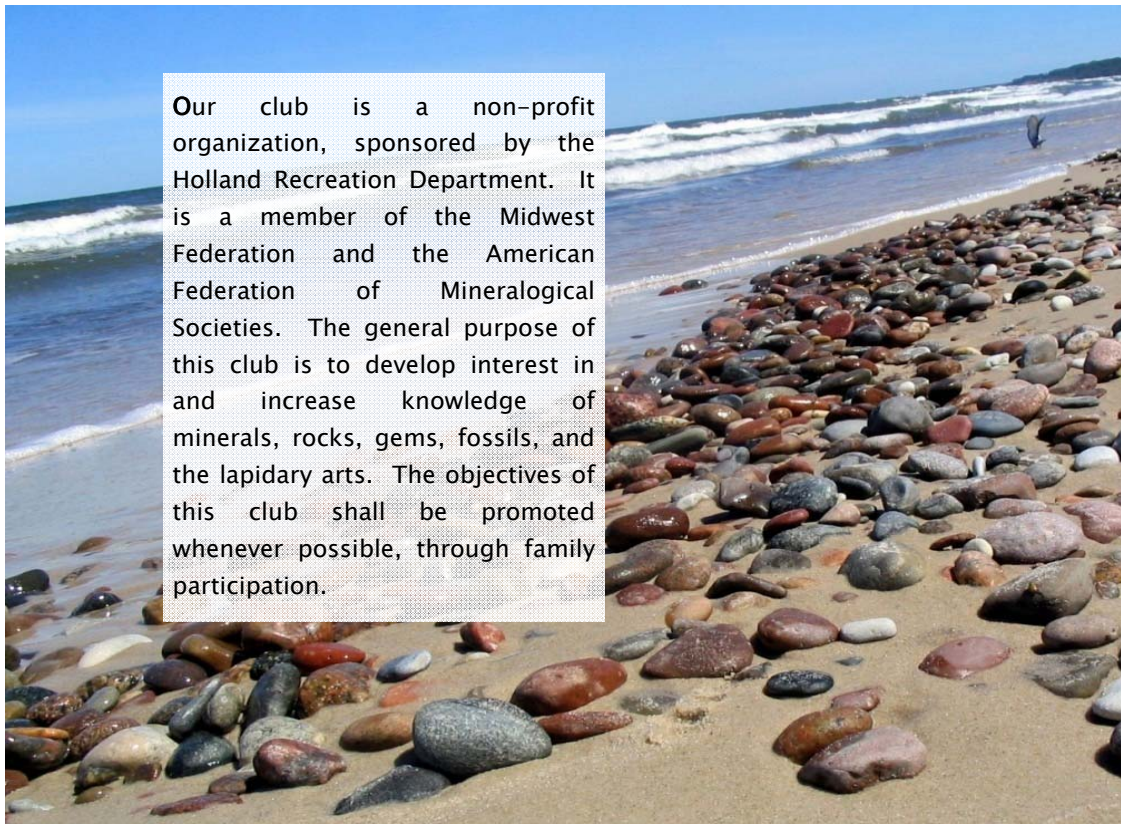
City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Phone \_\_\_\_\_ Email \_\_\_\_\_

I would like to receive my newsletter via email only.

*Note: New Members that signed up at the Sept. show are paid for 2011.*

Comments:  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



Our club is a non-profit organization, sponsored by the Holland Recreation Department. It is a member of the Midwest Federation and the American Federation of Mineralogical Societies. The general purpose of this club is to develop interest in and increase knowledge of minerals, rocks, gems, fossils, and the lapidary arts. The objectives of this club shall be promoted whenever possible, through family participation.

Advertising rates for Club members are: \$5 for business card size, \$10 for ¼ page, \$15 for ½ page, \$30 for full page. Double the rates for non-members. Payment by check; made out to: TCG&M; to be submitted with ad copy to Editor.

*Articles in this bulletin may be reprinted, provided credit is given to the source, author and bulletin.*

Dues:  
Family \$20 Single \$15

Meetings are held monthly on the last Wednesday of the month in the Herrick District Library Auditorium, 300 South River Avenue, Holland, MI at 7 pm, unless announced otherwise at a meeting or in the THE TULIP CITY CONGLOMERATE. A Junior Club welcomes young rockhounds and meets separately during the evening.



Tulip City Conglomerate  
Karri Nienhuis, Editor  
4121 60<sup>th</sup> Street  
Holland, MI 49423



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