



THE TULIP CITY CONGLOMERATE



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

Website: Tulipcity.org

February 2011

Volume 44, Edition 2

LECHUGUILLA CAVE

General Meeting

February 23, Herrick District Library

Doors open at 6:30pm for social time,
get your door prize ticket and nametag.
Meeting starts at 7:00pm

A Beautiful Journey Underground

Lechuguilla Caves, USA Excerpt via www.BBC.CO.UK

Could there be a greater contrast? From the vivid blue sky above the desert we were walking over to the subterranean world beneath our feet that we were about to enter?

Clinking across the desert in our tight fitting caving harnesses it was amazing to think that below us was one of the longest, deepest, and most beautiful caves in the world.

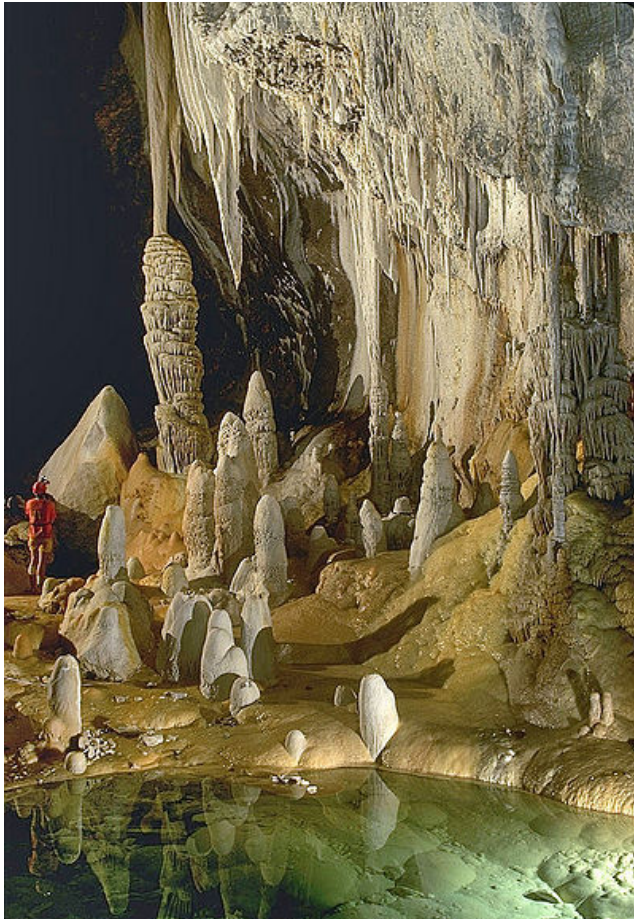
A place so extraordinary that, since its discovery in 1986, it has become the Holy Grail for all serious cavers.

Its name -
Lechuguilla.

Unfortunately for the world's cavers, Lechuguilla's fragile beauty has made it the most restricted cave on earth - open only to specialist scientists and those mapping the ever increasing passages.



Photo via www.resurgentsoftware.com



Above left photo and below text via: http://en.wikipedia.org/wiki/Lechuguilla_Cave

The fifth [longest cave](#) 126.1 miles (203 km) known to exist in the world, and the deepest in the continental [United States](#) 1,604 feet (489 m), but it is most famous for its unusual [geology](#), rare [formations](#), and pristine condition.

Lechuguilla Cave offered even more than just its extreme size. Cavers were greeted by large amounts of [gypsum](#) and lemon-yellow [sulfur](#) deposits. A large variety of rare [speleothems](#), some of which had never been seen anywhere in the world, [soda straws](#), [hydromagnesite](#) balloons, [cave pearls](#), subaqueous [helictites](#), [rusticles](#), [U-loops](#) and [J-loops](#). Lechuguilla Cave surpassed its nearby sister, [Carlsbad Caverns](#), in size, depth, and variety of speleothems, though no room has been discovered yet in Lechuguilla Cave which is larger than Carlsbad's Big Room.¹

BOARD OF DIRECTORS

President	Dave Nienhuis	dpnienhu@sbcglobal.net
Vice President	Jon Mull	solace247@yahoo.com
Secretary	Kathy Steffler	ksteffler@hughes.net
Treasurer	Rebecca Cistaro	r4squares@charter.net
Past President	Cindy Root	d-root@sbcglobal.net
Directors at Large	Chris Cooper Trudy Fetters	kayakno1@yahoo.com diggerdog@chartermi.net
Field Trip Chair	Bob Sherwood	bobandjulia@accn.org
Historian	Betty Hoekstra	kbhoek@att.net
Jr. Club Co-Chair	Rick Smith Linda Winklemann	smithr@hope.edu lindawinklemann@att.net
Liaison	Julia Sherwood	bobandjulia@accn.org
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Newsletter Editor	Karri Nienhuis	dpnienhu@sbcglobal.net
Show Chair	Patti Valentine	valentinoak@hotmail.com
Social Chair	Esther Kirkendall	ekirken@yahoo.com

MARCH BIRTHDAYS

Birthstone: **Aquamarine**

3/5	Barb DeMoore
3/9	Sharon Jillson
3/17	Mallory Zenk
3/19	Jan Maher
3/19	Thomas Steffler
3/23	Lilja Plumert
3/26	Rance Westover
3/27	Lisa Leggio
3/28	Jose Soto
3/29	Betty Hoekstra
3/31	Bob Sherwood



MARCH ANNIVERSARIES

3/15	Bob & Julia Sherwood
3/23	Jon & Becky Mull

GET TO KNOW YOUR FELLOW MEMBERS:

Julia Sherwood, Liaison

Interests: (other than collecting rocks) Travel, reading, craft projects-cab beading

Favorite rock: Fluorite, for all its combinations of cubes and variety of colors

Favorite tool: hand-held power washer, replaces dental pick!

Magazines: Time, Nat. Geographic, Rock N Gem, Rocks & Minerals

Do you have a Workshop: yes, even before Bob I had a Sears saw/grinder unit

Favorite food: anything Italian **Least favorite:** cilantro

Profession: stay-at-home mom 17 years, elementary school teacher, manager of a franchise art business, telemarketer for bio-chemical instrument training programs

One thing no one knows about me: graduated from Harvard and BGSU

Weirdest thing in my home: Native Irianjayan, Indonesia, male "privates" protector

My Biggest collection: Native American pottery and artifacts

One thing from my childhood: solid maple building blocks in a wooden wheelbarrow

Favorite TV Shows: Blue Bloods (Tom Sellick!) and Gray's Anatomy

Club Involvement favorites: field trips, passing along labeled specimens to any and all young people from relatives to strangers
My new step-granddaughter told her mom, "Grandma Julia must really love rocks 'cause she sends me so many!"

Personal motto: Don't judge others until you know more about them

?February Question of the Month?

Chandelier **Ballroom**
Reaching down from the ceiling like giant talons, the "chandeliers" of the Chandelier Ballroom are [stalactites](#) 20 feet long. Lechuguilla's ___?___ chandeliers are thought to be the world's largest.

What mineral is this chandelier ?



Above photo and text via

<http://www.pbs.org/wgbh/nova/caves/jewel.html>

When you arrive to the 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.

CLUB CALENDAR

February 23rd - General Meeting
Lechuguilla Cave Program
Library Auditorium 7pm

February 26th - Basement Field Trip
Miller's & Sherwood's Basement
Details on Page 5

March 16th - Board Meeting
Library small meeting room 7pm

March 19th - Field Trip GVSU Geology Dept.
Details on Page 5

March 23 - Show Meeting
Library small meeting room 7pm

March 30th - General Meeting
ROCK SWAP n SELL
Library Auditorium 7pm

April 4th & 5th - Field Trip Fossil collecting along
the Lake Huron Shore (Sign-up at the general meeting.)
Details will be in the March newsletter

April 13th - Board Meeting
Library small meeting room 7pm

April 27th - General Meeting
SCHOLARSHIP BANQUET
PROGRAM by BRIAN YURK (2003 Hope College
recipient of the TCG&M Club scholarship)
Library Auditorium 7pm



For a complete list of 2011 Field Trips and
details go to www.tulipcity.org,
then field trips - click on the link.

Field Trips

May 14th - Paulding, OH, Lafarge Quarry
Fossils 8am - 1:45pm

June 12th - July 8th - Oregon High Desert

July - Club Picnic

August - Gem Mines in the Spruce Pine, NC

Sept 2nd - 5th - Flint Ridge, OH

Oct 2nd - Alpena, MI, Lafarge Quarry



OTHER EVENTS go to www.amfed.org/mwf

WELCOME NEW MEMBER

Robert Little, Temple, TX

GENERAL MEETING MINUTES

December 15, 2010

Cindy Root called the meeting to order at 7:12pm
73 people attending (2 guests, 2 new members)

- Cindy called the Juniors up for their rock. She also picked the door prize for the Adults.
- Rick Smith awarded trophies to the winners and honorable mentions for the Junior writing contest. The Juniors were then excused for their meeting.
- Cindy reviewed the minutes from Nov.'s meeting.
- Jim gave the Treasurer's report.
- Bob talked about the book that the club donated to the Library in memory of Chester Cutshall. He also mentioned some field trips he was planning for the club for 2011. Including a trip to Grand Valley State University to see their collection and also setting up the Basement trips again. Bob will have more information in the January newsletter.
- Julia mentioned that today was the last day to purchase tickets for the Citrine Cathedral. Drawing will be tonight. \$210 proceeds to Gibson fund raised.
- New Business: Installation of 2011 Board Members. Ken Hoekstra read the official verbage for the installation process.
- Dave Nienhuis talked about the new ByLaws that were sent to all TCGMC Members. Dave Root moved and Jon Mull seconded to accept the new ByLaws - Motion approved.
- Dave Nienhuis explained how the voting would take place for each category of the Best of 2010 contest and the voting was open until 8:15pm.
- Jon Mull talked about ideas for programs for 2011. Please send him your ideas.
- Cindy announced Patty Valentine will be chairing the 2011 Show. January 19 will be the first show meeting.
- At 7:55pm the Junior's returned. Everyone enjoyed the snacks that were provided.
- 8:20pm Dave announced the winners of the Best of 2010 contest. (Jon has a complete list of each category and the winner.)
- Julia picked the winning ticket for the Citrine Cathedral - Larry Graves
- Dave picked the winner of the Question of the Month - Rose Brown.

Meeting adjourned at 8:48pm

Respectfully submitted, Jennifer Ensing, Secretary



BOARD MINUTES

January 12, 2011

Present: Jon Mull, Kathy Steffler, Chris Cooper, Bob Sherwood, Betty Hoekstra, Patty Valentine, Linda Winkelmann, Julia Sherwood, Rebecca Cistaro, Cindy Root, Esther Kirkendall, Trudy Fetters Guest: Chet Smith Absent: Dave Nienhuis, Karri Nienhuis

The meeting was called to order by VP Jon Mull at 7:05pm.

- Treasurer's report was distributed by Rebecca Cistaro. Julia Sherwood reported that she had volunteered to contact an acquaintance in regard to auditing our books. She reported that the cost would be prohibitive but the accountant had a few suggestions: HASP (Hope College Senior Professionals) may have a knowledgeable volunteer who would assist us; Julia was also given a list of 8 questions that should be addressed. Cindy Root told us that her husband Dave had done the audits the last couple of years, but he would not be available to do so this year. She said that he could relay his process to another person, perhaps from the Indian Mounds Club who could be our "outside auditor." Cindy Root moved that we contact another club to see if we could "trade" auditors; Linda Winkelmann *second*. Approved.

- Jon Mull reported that Dave Nienhuis will be responsible for the January program at the meeting as a carryover from his previous responsibilities.

- Patty Valentine, Show Chair, reported that the *first* show committee meeting will be held on the *January 19* where she will distribute folders and establish a theme. She read a list of positions, most of which are filled. Anyone interested should contact her.

- Membership coordinator needs to officially be appointed to the Board.

It was mentioned that several position titles need to be *updated on the Website*. Cindy Root said she would take care of it, but would welcome another member to take over the website responsibility. The President will ask for volunteers at the next meeting.

- Field trips: Bob Sherwood reported on upcoming trips. More detailed info will be listed in the newsletter. Trudy Fetters asked Bob if he could bring sample specimen that may be found on the field trips so that novice collectors will know what they may find if they go on a trip.

Unfinished Business:

- Jon Mull asked if anyone is interested in being responsible for door prizes at the meetings. Esther Kirkendall told us that she thinks Mike Graebner may be interested. Jon Mull said that if Mike is not interested, he will do it. There was discussion about the number of "prizes" needed for each meeting with the suggestion of one child and one adult prize being less time consuming. After much discussion, it was decided that the person in charge of the prizes will decide how many will be given.

- Linda Winkelmann reported that the Juniors will need more small specimens to be distributed at each meeting. She also said there is a change in the job description for her that needs a correction; she will forward it to the President.

- There was more discussion about the Junior Program and the amount of time allotted. Suggestions included releasing the juniors at 7:15 for a ½ hour meeting. It was also suggested that there be no Junior Meeting on the nights that the Club has Silent Auction and "Best Of". Linda said that the Juniors may want to conduct the Program at June regular meeting.

- Budget: the budget committee, Cindy Root, Rebecca Cistaro and Julia Sherwood, distributed a proposed budget. Julia led the discussion as we went through the items. The Newsletter expense brought about discussion as to the costs and the possibility of saving by sending more by email. Discussion included the possibility of raising the cost of membership, or keeping all memberships the same but having a surcharge for those who want the Conglomerate mailed to them. It was concluded that the President will bring this up at the general meeting and pass around a sheet for those attending to encourage more members to receive email only.

- A few of the line items on the budget were adjusted per discussion. Julia Sherwood moved that we accept the budget as adjusted; *Cindy Root second*. Approved.

- Bob Sherwood proposed that a book be purchased as the Boone memorial. The cost would be \$47.00 which is more than the usual \$30 *per memorial*. After discussion, Bob Sherwood moved, Betty Hoekstra *seconded* that the Club would allot \$30 per memorial. If the selected memorial was to cost more than \$30 then a collection will be made at the next meeting. If the collection amounts to more than the cost of the item, the balance will be deposited and credited to the general Memorial Fund. Approved.

- Bob Sherwood donated an attractive calendar that will be auctioned off by the President at the next general meeting. Proceeds will go to the Memorial Fund.

- New Business: Trudy Fetters suggested that we have name cards for the Board members to place in front of us at meetings. No action taken.

Meeting adjourned 8:32pm

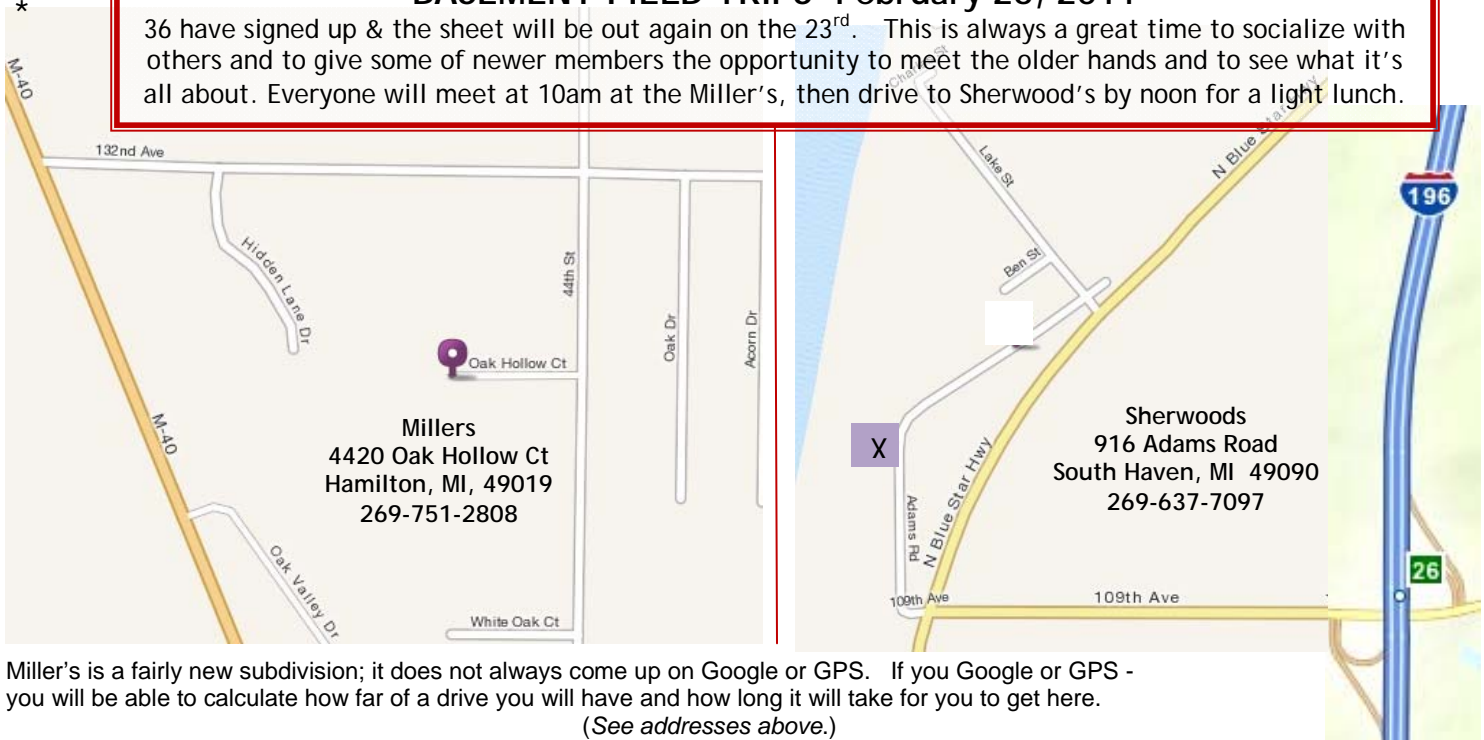
Submitted by Kathy Steffler, Secretary

We are in need of rock donations for the General Meeting Junior door prizes. Contact Mike Graebner email: ekirken@yahoo.com

Hamilton *

BASEMENT FIELD TRIPS February 26, 2011

36 have signed up & the sheet will be out again on the 23rd. This is always a great time to socialize with others and to give some of newer members the opportunity to meet the older hands and to see what it's all about. Everyone will meet at 10am at the Miller's, then drive to Sherwood's by noon for a light lunch.



Miller's is a fairly new subdivision; it does not always come up on Google or GPS. If you Google or GPS - you will be able to calculate how far of a drive you will have and how long it will take for you to get here. (See addresses above.)

Directions:

From North/Holland: Take M-40 South (approximately 6 miles) through "Hamilton" and turn left/ East onto 132nd Avenue. Go approx. 1/2 mile and turn right/South onto 44th Street. Climb to the top of the hill and turn right/West onto Oak Hollow Ct. Our house is the last one on the left of the cul-de-sac. You can park in the turn around.

From South/Allegan: Take M-40 North, turn right onto 132nd Avenue. Go approx. 1/2 mile and turn right/South onto 44th Street. Climb to the top of the hill and turn right/West onto Oak Hollow Ct. Our house is the last one on the left of the cul-de-sac. You can park in the turn around.

The Sherwood address is 916 Adams Road, South Haven. From Miller's, return to M-40/89, go South to M-89 West to I-196. Take I-196 South to Exit 26, go west 1 mile on Pullman Road toward Lake Michigan. At Blue Star Hwy, continue west and follow road (becomes Adams Road), curving to the north to address 916, fifth house on the left.

FIELD TRIP by Bob Sherwood, Field Trip Chair

March 19th – Grand Valley State University Geology Dept. Visit

Club members will have the opportunity to visit the Geology Department and discover what projects the students are currently working on, as well as their mineral and fossil exhibits. Professors Peter Riemersma and Greg Wilson will host the visit. Meet at 10am Saturday. See Campus Map

Directions: GVSU in Allendale (M-45) Lake Michigan Drive and 48th Ave. Go to 128 Padnos Hall of Science Turn onto North Campus Drive off Lake Michigan Drive. Continue until you see Parking Lot F which is across the street from the Padnos Hall of Science (Building 55 on the map). Walk into Padnos, go down the steps to the first floor and follow the signs to Padnos 128.



BOARD MINUTES: December 1, 2010

Members attending: Dave & Karri Nienhuis, Bob & Julia Sherwood, Jon Mull, Jim Benson, Rick Smith, Rebecca Cistaro, Kathy Steffler, Chris Cooper, Shari Luttikhuizen, Trudy Fetters, Patty Valentine, Jennifer Ensing
 Absent: Cindy & Dave Root Visitors: Chet Smith, Tom Steffler

Dave Nienhuis called the meeting to order at 7:12pm
 Dave reviewed November Meeting Minutes.
 Bob moved and Jon seconded approval of General Meeting Minutes - Motion approved.
 Kathy moved and Rick seconded approval of Board Meeting Minutes - Motion approved.

- New Business: Bob Sherwood gave a report of some tentative field trips for 2011. More discussed later.
- Jim gave the Treasurer's report. Jon moved and Shari seconded to approve the Treasurer's report. - Motion approved.
- Old Business: Kathy mentioned that the snacks for December's General Meeting will be for everyone to bring Christmas style snacks; she will have extra tables set up.
- Dave went over the Job Descriptions for each person on the Board. Bob moved and Jon seconded to approve the Job Description document as changed -Motion approved.
 Meeting adjourned at 8:50pm.
 Respectfully submitted, Jennifer Ensing, Secretary

GORDON AND THE WINDMILL

by Chet Smith

Shortly before 8am on a warm summer morning Gordon and Jeanette Boone drove up the Smith's driveway. They were closely followed by 5 or 6 other cars. The people piled out of the cars carrying trim saws and boxes of slabs.

The purpose of this get together, as Gordon had explained at the last club meeting, was to continue the work on the windmill that was being built by the club. Several hundred "bricks" were needed to cover the lower section of the windmill. The bricks $\frac{3}{4}$ " x $1\frac{1}{2}$ " were to be cut from the colorful rock slabs using the small trim saws.

The windmill was the first major project of the club. This would be a scale model of the DeZwaan Windmill located at Windmill Island. When finished the windmill would be lit and have moving sails.

Gordon noted that the large coffee pot was plugged in, and the boxes of donuts and cookies were open. His next job was to be sure that persons working on the trim saws had a good supply of slabs. After that the washing and cleaning of the cut bricks was under control. The cleaned bricks were spread out on the warm sidewalk to dry. The "brick masons" had already started to work with a supply of bricks previously cut. Gordon was happy and started for the coffee pot. Then all the saws stopped. An overloaded circuit breaker had tripped!

Having finally solved that problem, Gordon relaxed and returned to the coffee table. About 3:30 all the material had been sawed, washed, cleaned, and glued to the windmill.

Gordon was Happy - Real Progress!!!

Gordon Boone was a charter member of this club,
 January 29, 1920 - December 14, 2010.



Feb we are going to have a little Mardi Gras fun!!!
 Find out at break!



Sign-up to bring a snack to a meeting!

SHOW REPORT

**TULIP CITY 42ND SHOW THEME:
 PETRIFIED WOOD: ANCIENT FORESTS**

YOUR HELP IS NEEDED: When on field trips we are in need of rocks for the cloth collector's starter bags, paper grab bags, kids game prizes, and nice fresh stuff for club sales, as well as the door prize box.

Also, please keep in mind from now until the show to look for nice items for your display cases.

There are still a few show jobs to be filled - see Patty or email her at valentinoak@hotmail.com. Please consider helping make this the best show ever!!!

Thank you, Patty Valentine, Show Chair



In 2002, the windmill was donated to the City of Holland and installed as part of a permanent display on Windmill Island.

2011 TULIP CITY GEM & MINERAL CLUB PHOTO CONTEST/CLUB PROJECT

Each member may enter up to 10 photographs within the limitations described below:

- 5 Mineral/Stone/Fossil The "raw" article.
- 3 Lapidary. Mineral or stone manipulated by man.
- 2 Field trips/nature. Photos of specimens taken while on field trips or while on one's own travel/items in their natural element.

NOTE: If you choose to enter only mineral photos, you are limited to only 5 photos, etc. The 10 photos must include all three categories.

The photo should not include people; it should be a photo strictly of the listed subject.

Each photo must be labeled with the subject and who took the photo. For field trips/nature photos, the label must also include where the photo was taken. The labels for each photo may be included in the body of the e-mail. It does not need to be placed on the photo. If you submit more than one photo per e-mail, please be certain to clearly describe which label goes with which photograph.

All photos are to be submitted digitally. All photos must be taken in 2011.

All photos submitted for this contest will become the property of Tulip City Gem & Mineral Club and you will be asked to sign a waiver indicating your agreement.

All photos must be received by July 11, 2011.
Photos are to be e-mailed to d-root@sbcglobal.net.

*We are looking into creating a Club Calendar containing member photos.
The calendar will be available to members and for sale at the 2011 show.*



GENERAL MEETING MINUTES

January 26, 2011

The meeting was called to order by President, Dave Nienhuis at 7:04pm.

Visitors were introduced, with 65 people in attendance.

- Mike Graebner handed out Door Prizes to the Juniors as they left for their meeting. Mike requested help in obtaining samples to be distributed as prizes for the future.
- No minutes from December were available for action. Dave gave a summary of the January Board meeting.
- Former Board members who did not return to a position were recognized: Jim Benson, Jennifer Ensing and Jodi Miller. Although still a board member, Cindy Root was recognized for her work as former President.
- Rebecca Cistaro gave the Treasurer's report.

Old Business: Bob Sherwood reported on field trips; detailed info is available on the website.

- Bob auctioned a calendar from *The Gem Shop*. The \$22 proceeds to be deposited in the memorial fund.
- Dave discussed our membership dues and what we receive. The cost to print and mail a newsletter per membership was almost \$17 last year. In interest of savings, a signup sheet was passed to receive the newsletter via email.
- Show Report: Patti Valentine reported that the Show Committee had met and decided upon a theme: "Petrified Wood: Ancient Forests."
- New Business:** The Club is looking for a member to take over the responsibility of the Website.
- Nametags: If you need a nametag, please sign the list by the tag board or contact Shari.
- Break for refreshments.
- Dave read the question of the month and announced Jon Jillson as the winner of the Mammoth Hair prize. Luc Cistaro was the Junior winner.
- At 7:55pm Dave introduced the program, *Mastodon in Your Backyard: The Ultimate Guide*.

Meeting adjourned at 8:45pm
Submitted by Kathy Steffler, Secretary

NOLITE AGATE

by Kevin Ponzio, via MWF News, September 2010

In 2007, Donna Nolte discovered something that changed the way we would view sedimentary rock in Wisconsin. Donna Nolte and Dan Broeder were out with the grandchildren scouting for rock samples. The grandkids found a small sparkling rock in the gravel along the road. "What's this?" they asked. "It is a small piece of Hematite/Quartz druse," Donna replied. "There must be a quarry near here that it is coming from." They continued their search for the rest of the day without finding any more druse. Donna talked to Jim Paddock about the druse and asked if he knew of any quarries in the area. A couple days later, Jim Paddock invited Donna to go with him into a small quarry that he was granted permission to enter. They made their way to the small quarry in Green Lake, Wisconsin. As they stepped out of the vehicle, they immediately started to find druse quartz with hematite inclusions. The red Quartz druse sparkles and glitters in the sun, so pieces can be seen from long distances. The quartz druse was everywhere they looked. They were amazed at how much of the druse was present. Later in the day, Donna picked up a piece of chert with concentric banded chalcedony. Could this be an agate? Donna knew an agate when she saw one and this was definitely an agate! Finding an agate that wasn't brought to the area by a glacier was phenomenal. She immediately knew how important this discovery was. Jim and Donna continued to collect specimens until it was time to leave.

Donna was eager to show everyone her new find. She began showing a couple specimens to people at a local rock show. Some of the specimens had red hematite/ quartz druse on them. The druse made it difficult to see the agate bands clearly. Donna was met by rejection and nay-sayers. One was quoted as saying, "Oh, that is found all over the state." They were looking at the druse and not the agate banding. Although disappointed by the reception, Donna didn't give up. For the next few years she continued to visit the quarry, finding better specimens each time.

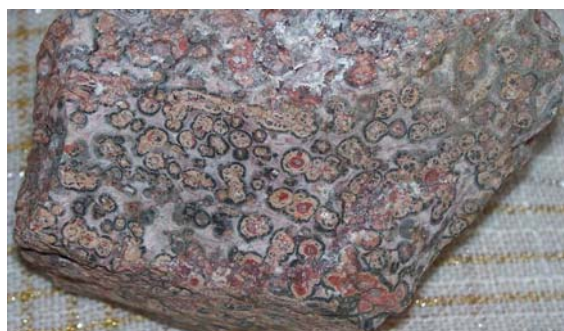
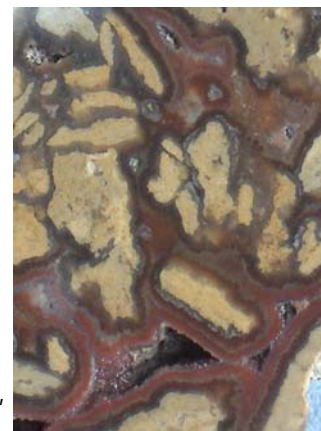
In the spring of 2010, I received a call from Jim Paddock to do some field collecting. We made several stops and found something interesting at each place we visited. In the afternoon, we pulled into a small quarry located in Green Lake County, Wisconsin. At first, all I could see was the sparkling red hematite/quartz druse.

After collecting a handful of the druse, I began to notice some of the other things lying about. Just then, I looked down and found a geode. It was no ordinary geode. It had pink, orange and white alternating bands of Agate around the clear Quartz center. Wow! Agate from matrix and not from glacial debris! In the words of Donna Nolte, "Cool Beans!" I collected a variety of specimens to study before it was time to leave. I thanked Jim for the fun day collecting and drove home.

At home, I eagerly cleaned the specimens I had found. As with all finds, I needed to label the new specimens. It was a no-brainer, as I recalled Donna was the first person to show everyone this wonderful new discovery. Nolte Agate was born! It was the perfect fit for someone who has given so much of herself to the hobby. Nolte Agate can finally take its place in agate history.

Important Note: When asked to return with a group, the quarry owners requested that groups not enter the quarry at this time. We were thankful for the visit they granted. Honoring their wishes may give rise to future visits for rockhounds.

Nolte Agate: An independent, sedimentary, fortification, agate/agate geode and as lace, stringer, plume, moss agate structures within chert nodules associated with hematite/ quartz druse in the Stromatolitic domes of the Oneota Formation, Green Lake County, Wisconsin. Discovered by Donna Nolte, Omro, Wisconsin, 2007.



I loved this *Nolte Agate* article, because it brought to mind the above specimen that I picked up on the shore of Lake Michigan last summer. I will place it on the "What Is It" table at the General Meeting to get your opinion.

Karri Nienhuis, Tulip City Gem & Mineral Club



Junior Rock Club Page

Junior Club Advisors
Rick Smith and Linda Winkelmann



We have a special treat for our January junior meeting! Elly Luttikhuizen, one of our own junior members, will be our Guest Speaker. Elly will talk a little about the smelting of iron ore and a little about the by-products of that process that have interest and value to rockhounds like us! In fact, iron mining and processing have had a long history right here in Michigan—there's even have an Iron County in Michigan and cities named Iron River and Iron Mountain!—so you may have some iron-related specimens in your own rock and mineral collection. Come to our January meeting and find out what it's all about!

Enjoy a little word scramble!

- 1) **ORIN** 2) **SLAGS** 3) **ACITTONE** 4) **DNLAEL ULEB**
5) **TURZAQ** 6) **REELMST** 7) **TIMEHEAT** 8) **GLAS**

THE DISCOVERY OF THE EARTH SHAKER by Virginia Cistaro



Millions of years ago there lived a tall dinosaur, called the "Seismosaurus hallorum", one of the largest dinosaurs ever known. This dinosaur was not discovered until about thirty years ago. It was found quite by chance, destined to inspire awe in readers and anyone else willing to listen. Let's go back to 1979, the morning it was found...

It is early in the morning in New Mexico. You and your mom decide to go on a hike. By the time you get there, two other people join you. When you stop for lunch, the other two cry out. You try to see what the problem is, but your mom hurries you home. Your mom is so excited; you can't seem to figure out what is wrong. The next day you find out that they were all over the news papers. The two hikers' faces were there, with the title "Found a fossil, possibly dinosaur". You read on, intrigued; finding out that a paleontologist named David D. Gillette will examine the bones. Let's pretend we are Gillette...

"I'm examining bones that I have not seen before?" you think. *"They must be unknown".* "I will package it and bring it to my lab for further study." You say out loud. Inside my head I was excited, because we could have here the fossils of the bones of a new, unknown to science, dinosaur. Later, I decide to look for data by visiting museums, talking to other scientists, and taking measurements of these fossils and others. Finally, after months of recording data, and talking to others who can help, I realized the bones where either too different in shape or too big in size. I have a new dinosaur for science, the "Seismosaurus hallorum"!

Case closed? Actually, Dr. Gillette is still studying the bones for more insights into the past. There is constantly new information coming up, and he could change what proposes he has made. However, it is time for goodbyes, so I will leave now. Hope you have as much fun looking for fossils! The End

Tulip City Gem & Mineral Club's



42nd Annual Show

Petrified Wood: Ancient Forests

Holland Civic Center

Sept. 16, 17 & 18

Fun for Everyone!



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.

Deadline for Article Submission to the Editor is the Friday after the Board Meeting.

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

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.

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 7pm, 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 60th Street
Holland, MI 49423



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