



THE TULIP CITY CONGLOMERATE



Bulletin of the Tulip City Gem & Mineral Club, PO Box 2082, Holland, MI 49422

Website: www.Tulipcity.org

Jan 2019

Volume 52, Edition 1

**Jan 30, 2019
General Meeting
7pm HMCC**

**Feb 2, 2019
Miller's/
Lunch/
Sherwood's
Basement Field Trips!
See page 3**

**Feb 12, 2019
Mineral Study Group
7p – 8:30p
Grand Rapids
See Page 3**

**Feb 13, 2019
Board Meeting
7pm HMCC**

**Feb 23, 2019
GVSU Geology Dept.
Field Trip
See page 3**

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**General Meeting
7 pm January 30, 2019
Quartz Crystals**

If you like Quartz Crystals, this is the meeting for you!

Mike Rakovitz and Vickie Hartung are two of the 25 people who went along on the Spring Break Field Trip to Arkansas last year. They are going to tell us all about the Field Trip to Mt. Ida to collect Quartz crystals and plates. There were a few different collecting sites, and lots of club members to share this fun experience with. They have promised loads of pictures, and you may learn some interesting geology facts as well. Learn what is like to collect your own quartz specimens, what they look like coming out of the soil, and how to clean them up. There will be time at the end of the presentation for questions, and also for stories from other club members who joined them on the trip. See you there!



Let me see your Quartz!

The rock/specimen contest in January will be all about Quartz crystals. Bring them out of the garage, clean them up, and show them off. Any crystalline Quartz will be allowed, Smokey, Amethyst, Citrine, etc. Each member at the meeting will have an opportunity to have 1 vote, and the winner will receive a modest prize.

Club Calendar 2019

Feb 27 (Wed) – General Meeting, 7p, HMCC
 Mar 1-3 – Richmond, IN Annual Show
 Mar 9-10 – West Bend, WI Annual Show
 Mar 9-10 – Livonia, MI Auction
 Mar 9-10 – Macomb, IL Annual Show
 Mar 13 (Wed) – Board Meeting, 7p, HMCC
 Mar 23-24 – Wheaton, IL Annual Show
 Mar 27 (Wed) – General Meeting, 7p, HMCC
 Apr 10 (Wed) – Board Meeting, 7p, HMCC
 Apr 24 (Wed) – Pot Luck Banquet/Meeting, 7p, HMCC
 May 15 (Wed) – Board Meeting, 7p, HMCC
 Mat 29 (Wed) – General Meeting, 7p, HMCC
 Jun 12 (Wed) – Board Meeting, 7p, HMCC
 Jun 26 (Wed) – General Meeting, 7p, HMCC
 Jul 27 (Sat) – Picnic (Target Date - Tentative)
 Aug 14 (Wed) – Board Meeting, 7p, HMCC
 Aug 28 (Wed) – General Meeting, 7p, HMCC
 Sep 13-15 – TCG&MC Show
 Oct 16 (Wed) – Board Meeting, 7p, HMCC
 Oct 30 (Wed) – General Meeting, 7p, HMCC
 Nov 6 (Wed) – Board Meeting, 7p, HMCC
 Nov 20 (Wed) – General Meeting, 7p, HMCC
 Dec 4 (Wed) – Board Meeting, 7p, HMCC
 Dec 18 (Wed) – General Meeting, 7p, HMCC

HMCC = Howard Miller Community Center, 14 S Church St. Zeeland, MI
Bold listings are Club events. *Italic listings* are non-Club events.
 Major source of material is from: <http://www.amfed.org/mwf/Calendar/>

Check out the Facebook Group:
<https://www.facebook.com/tulipcityclub/>

2019 Officers and Board of Directors

President	C.H. Falstad	cfalstad@ameritech.net
Vice President	Shari Luttkhuizen	sluttkih@oaisd.org
Secretary	Open	
Treasurer	Kurt Brinks	kbrinks@hollandpublicschools.org
Fld Trip Coord.	Julia Sherwood	bobandjulia@accn.org
Historian	Betty Hoekstra	kbhoek@att.net
Jr. Club Coord.	Rick Smith	Hollandrsmith@gmail.com
Jr. Club Coord.	Linda Winkelmann	lindawinkelmann@att.net
Liaison	Rhonda Gehringer	rgehringer@homeoftheshamrocks.org
Membership	Christine Silich	CSDS77@icloud.com
Newsletter Ed.	Rudy Silich	tulipcitygemnews@charter.net
Show Coord	Sue Goedert	sonbeams2000@yahoo.com
Social Coord.	Linda Plumert	rplumert@gmail.com
Dir. at Large	Tim Brandt	timwbrandt@gmail.com
Dir. at Large	Amy Dickinson	adickins@oaisd.org
Past President	-Bob Sherwood	bobandjulia@accn.org

For 2019, there are fifteen (15) positions, which have one vote each. There are currently (15) persons on the Board (two persons share one position). One position is open.

Baby, It's STILL Cold Outside

Please note the Howard Miller – Zeeland Public Library's weather closing schedule in the event of inclement weather. The TCGMC will follow the library's closing policy and schedule in the event of potentially severe weather. Contact the library at 616-772-0874.

Wheaton College Geology Department Sale

Jeff Greenberg, PhD, Professor Emeritus of Geology. at Wheaton College, Wheaton, IL issued a press release announcing a large sale of minerals. Please see page 7.

Renewal Time!

If you have not paid your membership dues for 2019, you are late. Please renew! Individual memberships are \$15, family memberships are \$20. If you wish to receive this newsletter by US mail, please add \$5. (Receiving the newsletter by email is free.)

If you have not yet renewed you will receive the January and February editions of the Conglomerate before you are culled from the distribution list.

Oh please don't be culled!

Renew now!

A membership form is on page 6.

Septaria Egg

After you renew your membership, there is an opportunity to win a large Septaria egg, which will be raffled over the next couple months. The winner will be selected at the Banquet in April.

Please see the photos on pages four and six.

WINTER FIELD TRIPS
No Hip Boots or Hard Hats Required!

Everyone is welcome to participate in these trips, but newer members are especially encouraged to see these member collections. Tulip City Gem & Mineral is joining with the White River Mineral Club for these events.

Saturday, February 2, 2019

10:00 am, visit the home of Jodi & Steve Miller to see their collections and work space. Club members have been to their home on previous occasions but the Millers and their collection will be moving to South Carolina shortly. Address: 4420 Oak Hollow Court, Hamilton. Take M-40 to 132nd Ave, then east to 44th St, then south to Oak Hollow.

11:30 am Depart the Miller's to have a group lunch at the Blue Goose in Fennville, 210 E. Main.

1:00 pm, visit the home of Bob & Julia Sherwood to see examples of the kind of rocks, minerals and fossils you might find on outdoor field trips this year. Address: 966 Lake Street, South Haven. Take I-196 to Exit 26, take Pullman Road west toward Lake Michigan to the stop at Blue Star, go north to the first street on the left, Lake Street. Park in marked driveways.

OFF TO COLLEGE - No Exams or Grades

Saturday, February 23, 2019

9:30 – 11:30 am, GVSU Geology Department Visit Peter Riemersma and Greg Wilson will be our guides to the mineral, rock and fossil collections, Department classrooms and special labs. Hear a few students tell what they are working on or have completed. Address: Google www.gvsu.edu/maps, then go to Allendale Campus. Park in Lot G or D. Parking rules are less strict on Saturday, so it is OK to park in a faculty Lot. The Geology Department is in Padnos Hall (PAD). There will be signage to the Geology Department once you are at the building. There will be some copies of the campus map available at the Jan. 30 General Meeting.

West Michigan MWF Study Group Chlorine Minerals (N-Z)
by Kreigh Tomaszewski

Last year we started our study of minerals that contain chlorine. Because of its great reactivity, all chlorine in the Earth's crust is in the form of ionic chloride compounds, which includes table salt (we rockhounds call it Halite). This month we finished our study of the chlorine minerals.

We use MinDat.org's Search by Chemistry function to produce an alphabetical list of minerals to study, and use the list to bring representative specimens from our collections to pass around the table. If you have seen several specimens of a mineral you are more likely to identify it correctly the next time you meet it in the field.

We started this month with the carbonate Northupite, the halogens Paratacamite, Penfieldite, and Pseudoboleite. We noted that Boleite contains Silver and Potassium that is missing in the pseudo variety.

Next we looked at the tectosilicate Quadridavyne, whose name reflects its unit-cell volume, which is QUADRupled relative to that of Davyne (which was named in honor of Sir Humphry Davy). We had a short discussion about minerals that don't have the standard -ite ending.

(Continued on Page 5)



Origin:
Madagascar

Material:
**Septarian
Geode**

**The black
crystals are:**
Argonite

SEPTARIAN EGG RAFFLE

opportunities: January 30, February 27, March 27

The winner will be announced at our annual Banquet **April 24**

**Tulip City Gem and Mineral Club
December Board Meeting
Howard Miller Community Center Zeeland
December 5, 2018, 7:00 PM**

7:00 PM – Call to Order

Approval of Agenda: Motion by Liz Hoekstra, Second by Rick Smith
October. PASSED.

Approval of Minutes of November 14, 2018 Board meeting. Motion by Deb Smith, Second by Amy Dickinson, Motion passed.

Approval of Minutes of November 28, 2018 General meeting. Motion by Rudy Silich, Second by Bob Sherwood, Motion passed.

Board reports

President – C.H. Falstad Welcome to newly elected board members We skipped to the show location discussion because one of the Board members needed to leave early.

Show location discussion and vote; After a long discussion a vote was taken by paper ballots and the final decision was made to not use the Holland Civic Center by a 9-to-3 vote. A second vote was made to stay at the Soccer Stop facility and passed by a 9-to-2 count.

Treasurer's Report – Julia Sherwood

Immediate Past President – Bob Sherwood – Bob made a motion that the Club purchase a Memorial Book for Wes Kent. The book is "Totality: The Great American Eclipses of 2017 and 2024" by Mark Littmann & Fred Espenak. The Motion was seconded by Bob Sinke and the motion passed.

Vice President – Shari Luttikhuisen spoke about the Kingsley-North donation item auction that will be held at the December General meeting on December 19th.

Editor – Rudy Silich news due by Saturday at 6:00 PM?

Field Trip Coordinator – Bob Sinke told the club about a recent home burglary where many rocks and minerals were taken. Watch out for items such as Yooperlites, Fire Agates, Moonstones, Labradorite, and short wave fluorescent minerals that may seem suspicious.

Historian – Betty Hoekstra, nothing new

Junior Leaders – Linda Winkelmann and Rick Smith; The Junior club will meet at 6:30 pm to assemble their own craft mineral trees with wire and rock bases with mineral chips as leaves.

Liaison – Deb Smith requested that her budget allocation be increased to \$75.

Membership Coordinator – Chris Silich, nothing new.

Show Chair – Sue Goedert, nothing new.

Social Coordinator – Linda Plumert: Bring your favorite cookies or treats for 19th; Wear holiday colors, sweaters or hats.

Directors-at-Large – Amy Dickinson, nothing new.

Dan Nevins, not present

Recurring business:

Rock Exchange – We are exchanging local rocks with the Southern Nevada Gem and Mineral Club. Bring your labelled rocks to the December meeting so we can pack up a large Priority Mail box to send. We will have a silent auction for the rocks we receive from the Nevada club at a future General Meeting.

New Business:

There is a large model of "BIG RED" that was assembled by club members from rocks that needs a new home. Deb suggested that we try to get it into the Historic Ottawa Beach Pump House Museum on the way to Holland State Park. Chris Silich and Rhonda Gehringer will follow up on this subject. A suggestion was made to get a brass tag made and have it attached to the model to show ownership to TCGMC. Also that certain conditions be made to assure that the lighthouse is shown to the public and that it be returned to our club when it is no longer wanted.

How the TCGMC assists or supports families of recently passed members. (This item will be discussed at a future Board meeting due to tonight's meeting running later than usual.)

A new Budget Committee is needed.

There was a request to find a new Auditor for our annual review of the Treasurer's books.

Correspondence:

A last minute note was read whereas Julia Sherwood volunteered to serve as the new Field Trip Chair person on the Board. Rick Smith made a Motion to make Julia Sherwood the Field Trip Chair, Rudy Silich seconded the motion, the Motion Passed. Only one position, that of Secretary, needs to be filled yet.

Visiting members: Chet Smith, Ray Plumert, Ken Hoekstra

The meeting was adjourned at 9:01 pm.

Please note the Howard Miller – Zeeland Public Library's weather closing schedule in the event of inclement weather. The TCGMC will follow the library's closing policy and schedule in the event of potentially severe weather. Contact the library at 616-772-0874.

Next Board meeting: January 16, 2018, 7:00PM

Next General meeting: 7:00 PM, January 30, 2018 at the Howard Miller Library in Zeeland.

**West Michigan MWF Mineral Study
Group
(Continued from page 3)**

Getting back on track we looked at the inosilicates Richterite and Sadanagaite, and the halide Salammoniac, which sent us back into the weeds of nomenclature again. Then it was the tectosilicate Sodalite, the sulfates Spangolite and Sulphohalite, and the inosilicate Tremolite, which MinDat lists as the Tremolite-Actinolite Series. It was noted that Tremolite is often triboluminescent, meaning it gives a flash of light when the mineral is subjected to friction, impact, or breakage.

We finished up with the halide Tugtupite, which glows bright red under black light, and many wonderful specimens of the phosphate Vanadinite.

The next monthly meeting of the West Michigan MWF Mineral Study Group will be held on Tuesday, February 12, 2019, from 7 pm to 8:30 pm, at the home of Kreigh Tomaszewski, 653 Burton St. S.E., Grand Rapids, MI 49507. We will be studying minerals that contain potassium beginning with the letters A thru M. We try to start (and end) on time; please do not arrive more than 20 minutes early (and everyone gets thrown out by 9). All West Michigan rockhounds are invited to attend. I hope you can join us as we learn about minerals from each other, but you are always welcome even if you can't bring any specimens. Please join us and let part of your collection get to meet some other rockhounds and be appreciated



TULIP CITY GEM AND MINERAL CLUB RENEWAL FORM

DUES DEADLINE: - December 31, 2018

Mail to: **Christine Silich
416 West Mae Rose Ave
Holland, MI 49424**

Make check payable to TCG&M Club

Check membership type: Individual - \$15 - Family - \$20
 Newsletter delivery: via email - Free! - Postal – Add \$5

Name _____

Address _____

City _____ State ____ Zip _____

Phone _____ Email _____

Note: Members who signed up at the 2018 September Show are paid through 2019!

FOR COLLECTORS AT ALL LEVELS, INCLUDING THE MOST ADVANCED, TEACHERS, SECONDARY SCHOOLS AND COLLEGES, ARTISANS IN JEWELRY AND LAPIDARY, AND KIDS OF ALL AGES.

SPECIAL APPOINTMENTS AVAILABLE FOR DEALERS.

THE GEOLOGY AND ENVIRONMENTAL SCIENCE DEPARTMENT AT WHEATON COLLEGE WILL HOST THEIR *LARGEST SALE EVER* OF ROCKS, MINERAL SPECIMENS, FOSSILS, MAPS, GEOLOGICAL INSTRUMENTS, DESIGNER-DISPLAY PIECES, AND RELATED ITEMS.

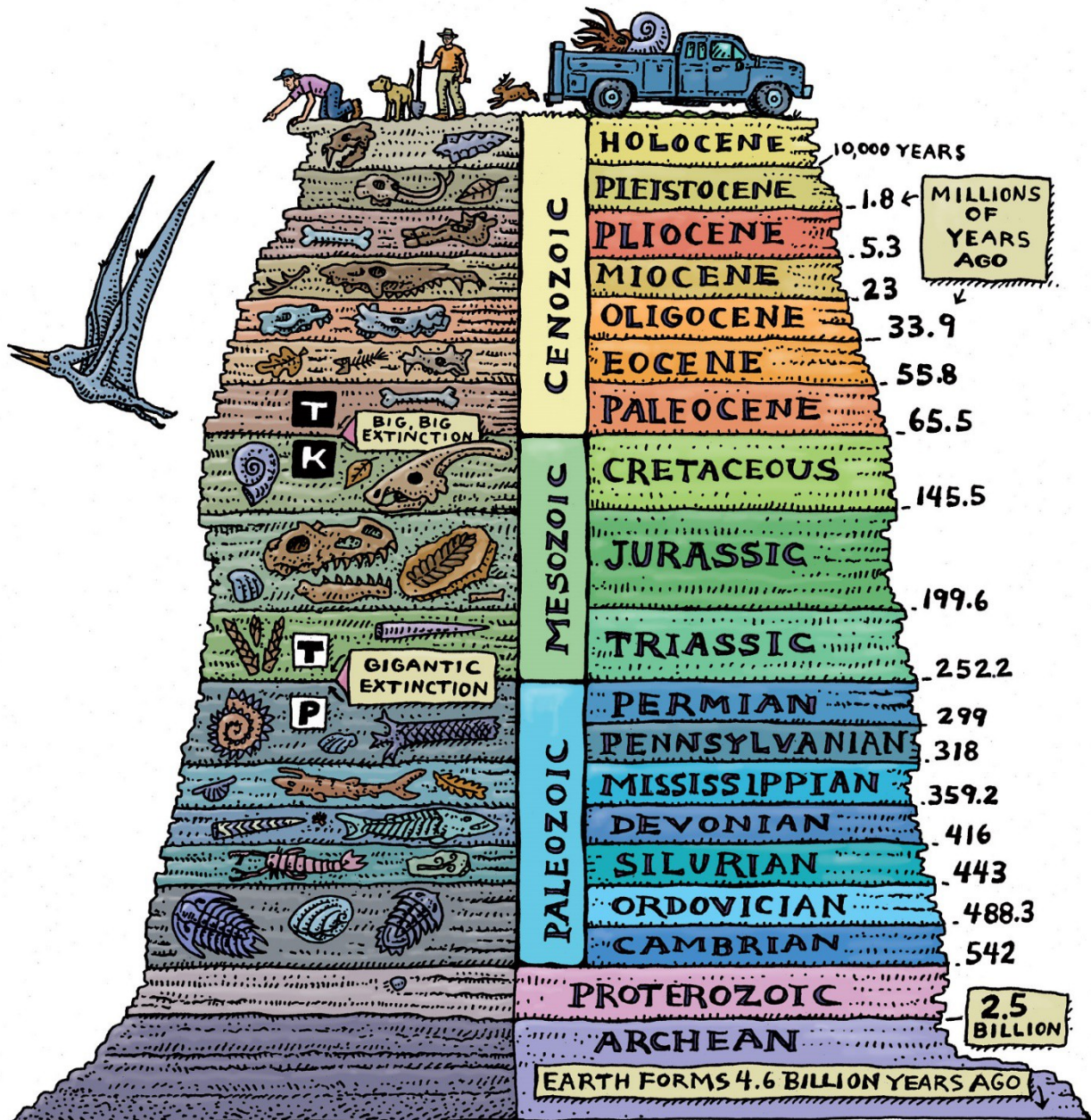
IT IS RECOMMENDED FOR SOME COLLECTORS, THAT YOU ASK ABOUT PARTICULAR MATERIALS THAT YOU ARE INTERESTED IN. THE SALE OFFICIALLY RUNS FROM 9AM TO 7PM ON SATURDAY, APRIL 6TH, 2019; TAKING PLACE IN THE LOWER LEVEL OF **WHEATON COLLEGE'S MEYER SCIENCE BUILDING**. PARKING IS AVAILABLE IN LOTS ON THE EAST OF THE BUILDING, TO THE SOUTH IN THE GRAHAM CENTER LOT, AND AT VARIOUS OTHER LOCATIONS AROUND THE CAMPUS.

CASH, CREDIT CARDS, AND LOCAL CHECKS WILL BE ACCEPTED. PRICES ARE SUBSTANTIALLY LOWER THAN MOST ROCK SHOPS AND INTERNET SITES. SOME PRICES ARE NEGOTIABLE.

EXAMPLES OF UNIQUE OFFERINGS IN ADDITION TO A GRAND VARIETY OF OTHERS INCLUDE:

- LEITZ PETROGRAPHIC MICROSCOPES (AT LEAST THREE)
- WORLD-CLASS COLLECTION OF QUARTZ OF ALL TYPES FROM ARKANSAS, MEXICO, BRAZIL, MONTANA, GEORGIA, MEXICO, ARIZONA, RUSSIA, ETC.
- PEGMATITE ROCKS AND MINERALS FROM NEW ENGLAND, SOUTH DAKOTA, NORTH CAROLINA, TEXAS, AND GEM MATERIALS FROM BRAZIL, AFGHANISTAN, PAKISTAN, MAINE, ETC.
- SULPHUR AND OTHER RARE MINERALS (CHAMBERSITE, HAUERITE...) FROM GULF COAST SALT DOMES
- CUT STONES AND CRYSTALS FROM DIVERSE GEM MATERIALS
- TRISTATE ORE MINERALS AND EXTENSIVE NUMBERS OF EXCELLENT CALCITE GROUPS
- MEXICAN AND COLORADO MINE-ASSOCIATED SECONDARY MINERALS
- PLATINUM-BEARING ORES FROM MONTANA
- GOLD-BEARING ORES FROM SOUTH DAKOTA AND COLORADO
- MAGNET COVE, ARKANSAS RARITIES
- ARKANSAS PHOSPHATES
- A FEW EXTREMELY RARE ARTSMITHITE SAMPLES
- RARE TEXAS MERCURY DISTRICT MINERALS
- THOUSANDS OF MICROMOUNTS, INCLUDING VERY SCARCE MINERALS AND LOCALITIES
- PIECES OF A UNIQUE, NORTHERN, IL CLAY-FULGURITE ('LIGHTNING STONE')

MINERAL-FOSSIL-ROCK COLLECTION SETS WILL BE AVAILABLE AT VERY-LOW PRICE OR GRATIS, FOR SCHOOL TEACHERS.



Some Etymology!

Etymology is the study of the sources and development of words, or the history of a word.

What etymology of "etymology"? Well, it is:

From Middle English *etimologie*, from Old French *ethimologie*, from Latin *etymologia*, from Ancient Greek *ἐτυμολογία* (*etumologia*), from *ἔτυμον* (*etumon*, "true sense") and *-λογία* (*-logia*, "study of") (from *λόγος* (*logos*)).

So, it is the 'study of the true sense' of a word.

The Greek root *zo-* means "animal", so names such as Paleozoic were invented to refer to a period in the development of animal life. For geologists, the Paleozoic era is followed by the Mesozoic (*meso-* meaning "middle"), which is followed by the Cenozoic (*cen-* meaning "recent"). ("Zo" is where we get the word "Zoo".)

So, in the chart above, Paleozoic means "old animals". Mesozoic = 'middle' animals, and cenozoic – recent animals. If you know the roots of these words, then remembering the chart becomes easier!

Junior Rock Club Page

CAN WE FIND DINOSAUR FOSSILS IN MICHIGAN?

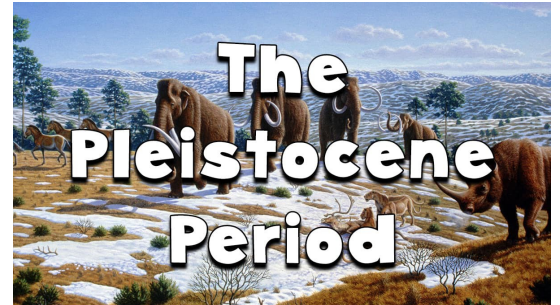
The answer has to do with Earth's history, the Geological Timeline. Join the Junior class in exploring Precambrian ideas older than 550 million years ago. Look at the western Upper Peninsula of Michigan, where the most ancient rocks and metal ores are near the Earth's surface... available for collecting. Look at the nested bowl idea of where younger rocks (and fossils) are exposed in Michigan's eastern UP and the southern "mitten-shaped" peninsula. Will knowing the age of exposed rock layers help you find or identify fossils? Yes!!

What kinds of fossils CAN we find in Michigan? Why? How do fossils and the rocks, that they are found hidden in, "tell a story"? Like a book with chapters, each layer of rocks/fossils are lined up (into a timeline). For example, trips to the Alpena Quarry show the Devonian animal story of Petoskey corals, Brachiopods, Favosites corals... yes, consider that underwater landscape! A construction crew in Ada, MI digs up Mammoth bones, while preparing to install a driveway. The Devonian time period was 340 million years ago! Mammoths roamed free in Michigan's grasslands 11,000 years ago. Big difference in environment and in time!! How else has our landscape changed since the Cambrian time? And where are the Dinosaur bones?

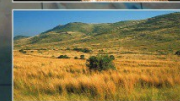
P.S. Next month, Juniors will be polishing Petoskey stones (an extinct coral from Devonian time).

Linda Winkelmann and Rick Smith
Junior Program Leaders

when mammals ruled the earth



Life Forms: Pliocene



Grasslands continued to develop as well as the grazers that lived off of them.

On land, the creation of a land bridge between North and South America enabled species to migrate

between the two continents.

This led to a migration of armadillo, ground sloth, opossum, and porcupines from South to North America

Miocene mammals

(National Museum of Natural History, Washington D.C., USA)



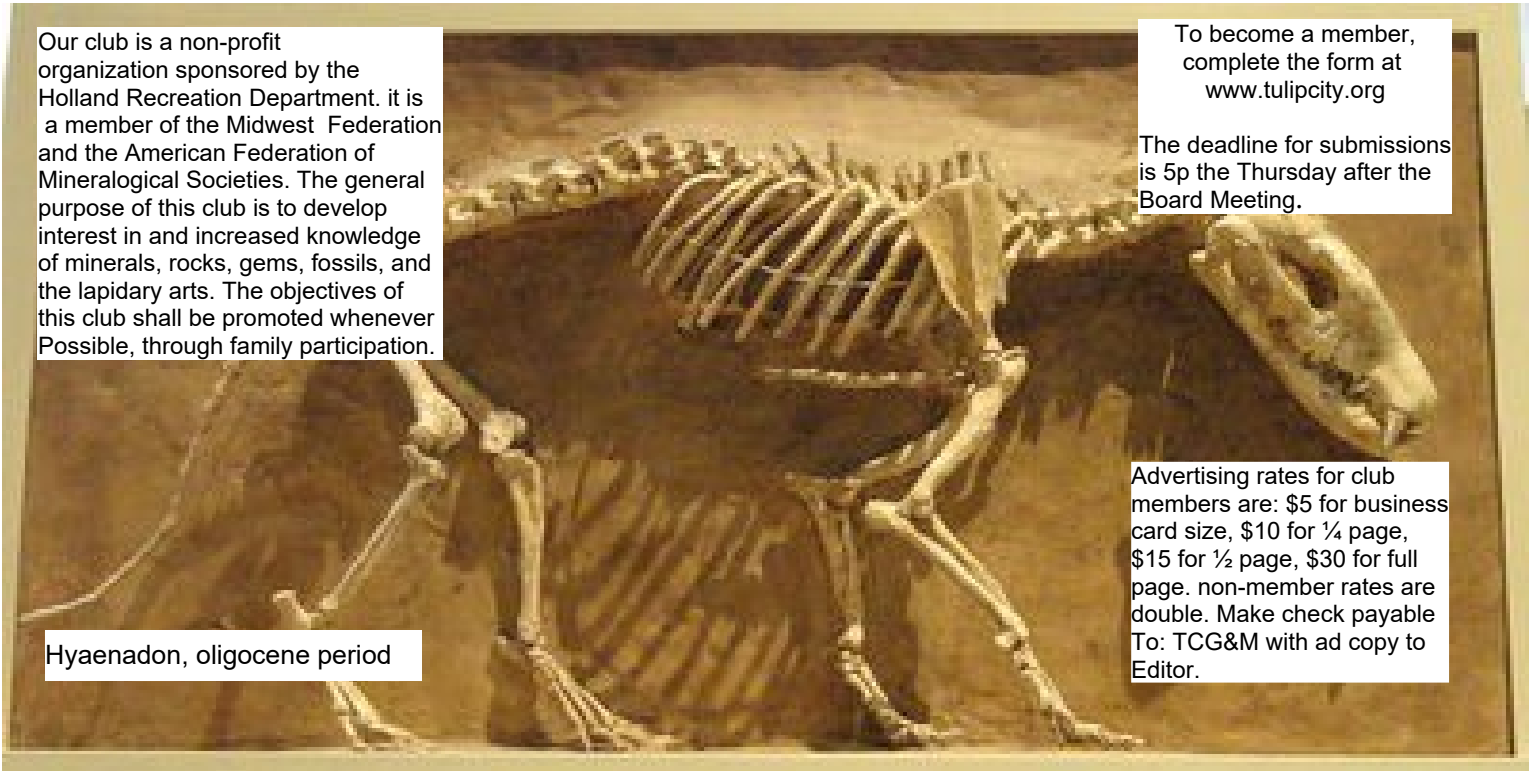
Our club is a non-profit organization sponsored by the Holland Recreation Department. it is a member of the Midwest Federation and the American Federation of Mineralogical Societies. The general purpose of this club is to develop interest in and increased knowledge of minerals, rocks, gems, fossils,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

To become a member, complete the form at www.tulipcity.org

The deadline for submissions is 5p the Thursday after the Board Meeting.

Advertising rates for club members are: \$5 for business card size, \$10 for ¼ page, \$15 for ½ page, \$30 for full page. non-member rates are double. Make check payable To: TCG&M with ad copy to Editor.

Hyaenadon, oligocene period



Meetings are held monthly on the last Wednesday of the month at the Howard Miller Community Center, 14 S. Church Street, Zeeland, MI at 7pm, unless announced otherwise in the TULIP CITY CONGLOMERATE. Junior Club welcomes young rockhounds and meets separately during the meeting.



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Tulip City Conglomerate
Rudy Sillich, Editor
416 West Mae Rose Ave
Holland, MI 49424