



# The Trilobite



Volume 71 Number 05

*Wisconsin Geological Society*

MAY 2015

## NEXT WGS MEMBERSHIP MEETING & PROGRAM Monday, May 11, 2015

Immaculate Heart of Mary Church Hall  
(Downstairs, Enter at back of building)  
1260 South 117th Street (Just North of Greenfield Ave):  
West Allis, Wisconsin

**7:00pm: Business Meeting:**

**7:30 pm: Program:** Snejana Karakis, Ph.D. Dissertator, UWM Geosciences Department

Her research field of interest is Terroir, which can be defined as the unique set of characteristics of a place imparting its essence to the wine produced in that place. My studies entail an analysis of the factors that contribute to the individual character of a wine and the variability among wines. These factors include the bedrock geology, soils, geomorphology, slope, orientation, and climate of a place, as well as the human factors involved in winemaking, such as viticultural and vinification practices.

## WGS Show News

The 58th Annual Wisconsin Geological Society Gem, Mineral, and Fossil Show will be held on Saturday May 16<sup>th</sup> and Sunday May 17<sup>th</sup> 2015 from 10:00am to 5:00pm each day. The Show will be held at Hart Park as usual.

Setup will begin on Friday after 10 am in the main hall. We will have access to the other rooms after 1:00 pm

The Zamora family is in need of someone to handle the cash box for the kitchen. 10 am to 2 pm each day. **Someone please volunteer.**

We also have some time slots needing coverage at the admissions table.

Volunteers for Security patrol are also needed and welcome. You can combine this with gawking at all the neat things for sale. The important thing is to have a visible presence on the floor.

The Children's area will need some presence at times to make sure we have someone there when others are on break. **Can anyone help with this?**

Paul Schmidt, Show Chairman, 414-771-8668 [pvs@wi.rr.com](mailto:pvs@wi.rr.com)

**WGS Minutes, April 13, 2015:** Immaculate Heart of Mary Church Hall

The meeting was called to order at 8:10 PM by our President Pierre Couture.

Our guest speaker, Abuduwufu Patiman (Fatimah), did her presentation before the business meeting.

The minutes of the March meeting were printed in *The Trilobite*. Sue Eyre made a motion to accept the minutes as published. Lloyd Brown seconded. The motion was approved.

New Memberships: There were no new membership applications.

Guests: Our presenter, Fatimah Patiman. attended the meeting.

Kitty Klein read the Treasurer's Report. She also suggested making adjustments to next year's budget. Lloyd Brown made a motion to accept the current report for audit. Phil Psychal seconded. The motion was approved.

**Committee Reports:**

The Show Committee: Jody talked about a possible guest at the 2016 WGS Show and about possibly doing a Wisconsin rock display at this year's show. Lloyd Brown reported that we will be having a display at Wauwatosa Library. He also has the forms for the sellers at Club Sales. People who wish to sell at club sales should contact him. Paul Schmidt said there are sign up forms in the back. We also need a cash handler at the Kitchen. The Children's Area also needs volunteers. Paul Schmidt also has display cases for the show. For those who are interested, please contact Paul. Flyers are also available. Setup will be on Friday before the show. Volunteers are encouraged.

The Field Trip Committee: Mike Macali, we were invited to a Dinosaur Museum near Elkhorn this past Saturday. Roughly four or five people attended. We are looking for more people to go to these events. Mike Macali and Ed Mueller related their experiences. Mike is looking for ideas for Field Trips. There is a rock auction in Belvedere, IL this coming weekend.

Unfinished Business: Pierre Couture is looking for new ideas for the website.

New Business: Marion and Oscar Froehlich collection: Lloyd Brown said he talked to their son. There are specimens they are trying to get rid of. They would prefer to sell the entire collection. Midwest Federation 75<sup>th</sup> Anniversary is May 23-24 in Dupage County, IL. Bob Bialecki volunteered to be a delegate at the Convention.

Announcements: At least 11 members attended the Kettle moraine show. A similar number attended the Science Bag at UWM. Jody mention a Milwaukee Journal Sentinel article about a woman whose mission was to visit all the Historical Markers in the State. Thursday, April 23 there will be a 6PM reception at the UWM Student Union, third floor, which the WGS has been invited to, preceded by a Natural Science speech by Dr. Greenler at 4:30PM. An R.S.V.P. is required. Pierre Couture will be doing a Geology Tour Talk at Harrington Beach on Father's Day Weekend. He will also be doing the same talk at the WGS Show. Lloyd Brown has Arizona Trails Magazines to give away.

Door Prizes: John Eyre and Paul Schmidt donated the specimens. There were enough specimens for each member who attended the meeting.

Barbara Brown, WGS Secretary

**CALENDAR OF EVENTS****April 18-19 2015: Eau Claire, WI****Chippewa Valley Gem & Mineral Society 52nd Annual Show**

Eau Claire County Expo Center, Lorch Rd.; Sat 9-5, Sun 10-4

**May 2-3 2015: Marshfield, WI****Heart of WI Gem & Mineral Society 42nd Annual Show**

Marshfield High School Fieldhouse, 1401 Becker RD. Sat 10-5, Sun 10-4

**May 23-24: MWF Convention & Chicagoland Gems & Minerals Association 39th Show,**

Dupage County Fairgrounds, 2015 West Manchester Roas, Wheaton IL

All MWF meetings to be held Saturday, in the Café Building #5 at the north end of the fairgrounds; Retail Show in the Main Exhibit Bldg. #1; Wholesale Show in the Home Economics Bldgs #2 & 3; Talks in 4H Bldg #4.

Saturday May 23 from 10am - 6pm, Sunday May 24 from 10am - 5pm

E-mail CGMA@sbcglobal.net Rich Dillon at (630) 377-0197

**June 6-7: Coulee Rock Club.**

Viroqua Middle School Gym, 100 Blackhawk Drive, Viroqua WI

Allison Conrad, 507-439-8109

rockinbabe@acegroup.cc

**2016 Agate EXPO : Cedarburg WI****July 7th 2016: Agate Symposium****July 8-10 2016: Exhibit and Sales Floor open****July 9 2016: Evening Banquet and Celebration**

The Midwest Federation website has an extensive calendar of shows and activities throughout the Midwest. <http://www.amfed.org/mwf/Calendar/calendar.html>

An extensive list on mineral shows is also at: <http://www.the-vug.com/vug/vugshows.html>

Rock and Gem magazine also maintains a calendar of Shows in the magazine and at their web site at [www.rockngem.com](http://www.rockngem.com)

U.S. output of natural gas and petroleum increased by 10 percent in 2014, extending its lead as the world's biggest hydrocarbon producer.

The U.S. produced 54.6 quadrillion British thermal units worth of liquid and gas energy in 2014, up from 49.8 quadrillion in 2013, according to an Energy Information Administration report published Tuesday. Russia produced 43 quadrillion Btu, Saudi Arabia 27.5 quadrillion.

Production gains happened even with U.S. crude prices falling 50 percent from June to December last year and natural gas falling 39 percent over the same period

As reported by Dan Murtaugh on Bloomberg.com



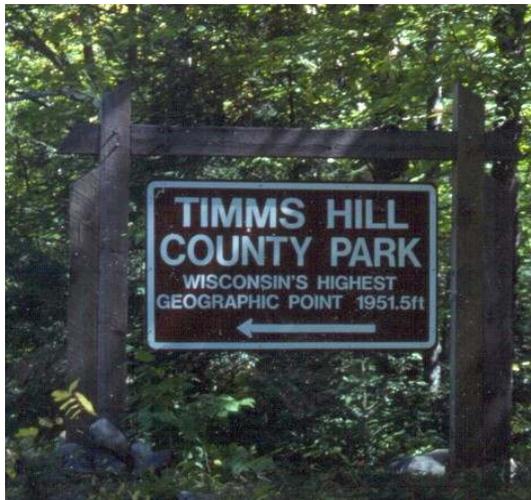
## The highs and lows of Wisconsin's high points.

What's the highest point in Wisconsin? Ask someone and they might say Rib Mountain. Ask a geologist and they will say Timms hill. Timm's hill is rather unremarkable up in Price county while Rib Mountain stands out in high relief from the surrounding terrain in Wausau Wisconsin. Both have observation towers and a great view. What makes them so different?

Let's look at some basics. Relief can be defined as the regional elevation above the surrounding land, and elevation, is how high above sea level something is. According to the Wisconsin State Cartographer's office, in many Wisconsin counties, it is very difficult to determine exact high points. The highest hills in most of the "Driftless Area" counties of southwestern Wisconsin are often ridge tops that extend for many miles with no clear indication of an exact summit. Ozaukee and Washington counties in the southeastern part of the state have numerous glacial kames all of nearly the same height. This makes determination of a highest point difficult. In contrast, West Blue Mound in Iowa County is significantly higher than any other feature nearby making it easy to identify. An additional consideration is that the highest point in a given county is often not as prominent as isolated hills of considerably lower elevation. This is illustrated by the fact that neither McCaslin Mountain nor Thunder Mountain, two prominent quartzite monadnocks, are the high points in Marinette County

Wisconsin's highest point is Timms hill and it isn't even made of rock. Timms hill is a high point, on a moraine. It stands 1951.5 ft above sea level but doesn't stand out in the surrounding terrain.

It's elevation comes from the piles of debris left by the glaciers, and the fact that this debris was piled on top of the prominent mound in the center of northern Wisconsin which is part of the Canadian Shield, some of the oldest rocks on the continent. The view from Timms Hill is treetops as far as the eye can see with a few lakes thrown in for good measure. It's a county park with free admission that's open from May through October.



Rib Mountain is quite different. It's a quartzite monadnock. A monadnock is described as an isolated hill of bedrock standing conspicuously above the general level of the surrounding area. While not the highest point in the state, it does stand higher than the surrounding terrain (670 ft) than any other hill in the state.



Rib Mountain started out as eroded sand from ancient mountains. Burial, heat and pressure turned the sand into sandstone and then quartzite. The quartzite became entrapped in magma about 1.5 billion years ago and floated and rotated and eventually froze in place in an almost vertical orientation as seen here in this image of preserved ripple marks.



Hundreds of millions of years later, through erosion and uplift, the resistant quartzite now stands high above the area. It's a state park with excellent views of the surrounding landscape.

Other notable highpoints in Wisconsin are:

Timms Hill	Price County	Elevation 1952'
Sugar Bush Hill	Forest County	Elevation 1939'
Rib Mountain	Marathon County	Elevation 1924'

Article submitted by Pierre Couture - WGS President

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Elmbrook Historical Society

Event: Celebrate Brookfield's Geological History – “The Niagara Escarpment”

Projected Date: Sunday, June 19, 2016 (Father's Day)

Location: The Dousman Stagecoach Inn grounds, 1275 Pilgrim Parkway, Brookfield, WI  
The Elmbrook Historical Society is planning an event to celebrate Brookfield's geological history, specifically, “The Niagara Escarpment.” The focus of this event will address the prehistory of the land encompassing Brookfield. Artifacts and presentations will specifically address the Brookfield, Waukesha, and southeast Wisconsin areas.

This will be a one-day event, (hours have not yet been determined) held at the Dousman Stagecoach Inn museum. Activities will take place, and exhibits will be on display, on the grounds and inside the Inn. The event will feature speakers who are geologists or other experts in the field of geology; as well, the event will also present topics related to the paleontology and archeology of the southeast Wisconsin area.

Attractions will include: exhibits, demonstrations, lectures, children's activities, and a market at which attendees can purchase rocks, gems, minerals, fossils, arrowheads, jewelry, etc. from local vendors. A vendor fee has not yet been determined.

There will also be food (mostly drinks and snack items) for sale.

Anyone interested in participating in this event (articulate and engaging speakers; collectors desiring to exhibit their collections; rock, gem, and mineral vendors, etc.) may contact Cyndy Salamati at 262-780-0296 by December 1, 2015.

Thank you.



**A message from M. Carol McCartney, PhD, Outreach Manager  
Wisconsin Geological and Natural History Survey, University of Wisconsin - Extension**

I think the members of your rock and mineral club might be interested in our new web site  
<http://wgnhs.uwex.edu/>

We have made a big effort to make all of our publications freely downloadable from our site. You can search for publications in our database but you might just enjoy going straight to our maps at  
<http://wgnhs.uwex.edu/maps-data/maps/>

We have a map of outcrops at <http://wgnhs.uwex.edu/education-resources/citizen-science/> and I think your members might be able to help us add photos to that list as well as suggesting new outcrops for us to add to the map.

We have added information about **Wisconsin Geology** and **Water/Environment** under tabs with those headings.

Finally, at the bottom of the web pages we have a link to an email for expert answers to your questions [askageologist@uwex.edu](mailto:askageologist@uwex.edu).

[carol.mccartney@wgnhs.uwex.edu](mailto:carol.mccartney@wgnhs.uwex.edu)

<https://www.facebook.com/WGNHS> for Facebook page.

<http://wisconsingeologicalsurvey.org/> for our website.

<https://twitter.com/WGNHS> to follow us on Twitter.

### Report on Dawn Spacecraft - NASA.gov

Since its capture by the gravity of dwarf planet Ceres on March 6, NASA's Dawn spacecraft has performed flawlessly, continuing to thrust with its ion engine as planned. The thrust, combined with Ceres' gravity, is gradually guiding the spacecraft into a circular orbit around the dwarf planet. All of the spacecraft's systems and instruments are in excellent health.

Once Dawn settles into the first science orbit on April 23, the spacecraft will begin the intensive prime science campaign.

By early May, images will improve our view of the entire surface, including the mysterious bright spots that have captured the imaginations of scientists and space enthusiasts alike. What these reflections of sunlight represent is still unknown, but closer views should help determine their nature. On May 9, Dawn will complete its first Ceres science phase and begin to spiral down to a lower orbit to observe Ceres from a closer vantage point.

Dawn previously explored the giant asteroid Vesta for 14 months

**Jewelry Bench Tips by Brad Smith****DIVIDERS:**

A set of dividers is a tool I find very useful in laying out the geometry of a piece I'm making. It has two needle-like tips with an adjustment to set the spacing between them.

They can be used to transfer a measurement. Let's say you need a 7mm wide strip of sheet metal. Set the spacing between the divider tips to 7 mm on the ruler. Then lay the sheet on the bench, put one tip against the edge, and run the dividers down the edge scribing a line parallel to the edge.

Dividers can be used to mark equal segments of a line or arc.

For instance assume a line between A and B that might be straight or curved, and you want to divide it into 5 equal lengths. Set the dividers to an estimate of the distance. Starting at Point A, use the dividers to mark off five lengths along the line. If you end up short of Point B, lengthen the distance on the dividers. If you end up overshooting Point B, shorten the length of your dividers. After a few tries, the length on the dividers will be the exact distance you need to mark the 5 segments.

Dividers can let you quickly find the center of a circular disk.

With one tip of the dividers at the edge of the disk, set the other tip to an estimate of where the center might be. Fix one tip of the dividers at the 3 o'clock position and scribe an arc with the other tip near the center. Do this again from the 6 o'clock, 9 o'clock, and 12 o'clock positions. The arcs at the center will form a small four-sided box. The center of the box is at the center of the disk.

**PIECE OF LEATHER:**

Leather has a multitude of uses in the shop. I often use a scrap of it to avoid scratching the back of a piece of jewelry while setting stones. It's also great for times when you need to clamp one of your tools in a vise, for instance a drawplate.

**SOLVENT DISPENSER :**

Frequently I need to fill a small bottle with alcohol, like an alcohol lamp or one of the nail polish bottles that I use for the yellow ochre anti-flux. Often I can't find a small funnel and end up spilling almost as much as I get into the bottle. It's wasteful, and the fumes can't be too good for you either.

A neat and inexpensive solution is to use a lab dispensing bottle to store small quantities of the solvents you frequently use. It has a wide mouth for filling and a fine tip for dispensing. You can get a small stream or just a drop or two. With the bottle's fine tip I don't spill a drop.

There are many suppliers on Google. One I've used is Carolina Biological Supply Company at [www.carolina.com](http://www.carolina.com) The bottle is Catalog # 716580 Unitary Wash Bottle, Low-Density Polyethylene, 125 mL

**Get all 101 of Brad's bench tips in "Bench Tips for Jewelry Making" on Amazon**

On April 11<sup>th</sup>, Ed Miller, Mike Macali, My wife Verna and I did a mini-field trip to visit Jim Boyd’s dinosaur museum just outside Elkhorn. I may seem like a strange place to find dinosaur bones, but Jim had been digging for fossils for 20 years at a private ranch in Montana. He got interested in fossils when he came across strange bones while hunting there. Once hooked, he spent time researching and learning how to identify and preserve them. One of his sons became hooked also, and is now a Paleontologist.

He also was a taxidermist and the walls of his building are covered with examples of his work. On display also is his vast display of arrow heads and spear points that he gathered in the area.

Jim is a great talker and loves to discuss his finds with anyone, especially the children who are always interested in all things dinosaur. It was a fun outing. The museum is located at W6502 County road A in Elkhorn. 262-742-3557 Hours: Fri, Sat, Sun 10:am to 6pm.



WGS thanks Mike Macali for organizing this outing.

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The Purpose of the Wisconsin Geological Society, Inc is to:

- Create an interest in the study of Geology
- Provide a means for personal development in Geology.
- Disseminate knowledge concerning all phases of Geology.

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# FIRST CLASS

To:

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**The Trilobite**



May 2015

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General Membership meetings are held each month (except July and August) on the second Monday of the month at 7:00p.m. in the Parish Hall (lower level) of the Immaculate Heart of Mary Catholic Church, 1260 South 117th Street; West Allis, Wisconsin.

All news, articles, and pictures to be included in the Trilobite should be forwarded to the editor by the 15th of the month. They can be mailed or e-mailed to:  
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pvs@wi.rr.com

**WGS Members, Please Note:**

**Your Membership Dues are renewed  
in November.**

\$15.00 Single Membership  
\$20.00 Family Membership

*Please remember to send your check to  
Club Treasurer Kitty Klein  
(See page 11)*

***The check should be made out to WGS***

**The Wisconsin Geological Society, Inc  
is now in it's 77th year**