



# The Trilobite



Volume 73 Number 01

Wisconsin Geological Society

Jan 2017

## NEXT WGS MEMBERSHIP MEETING & PROGRAM Monday, JAN 11 2017

Immaculate Heart of Mary Church Hall  
(Downstairs, Enter at back of building)  
1212 South 117th Street (Just North of Greenfield Ave):  
West Allis, Wisconsin

7:00: Presentation followed by the business meeting.

**Speaker: Megan Luna Barlow**, University of Wisconsin-Milwaukee  
Graduate Student, Geoscience-Terroir

### **The Contrasting Terroirs of Castelli di Jesi and Matelica DOCS, Marche Wine Region, Italy: Insight from Verdicchio Soil Studies**

Verdicchio is a specific white grape varietal notably grown in the Marche region of Italy between two denominazione di origine controllata (controlled designation of origin-DOC'S), Castelli di Jesi and Matelica, located less than 50 km apart within the latitude and longitudinal range of 43°N and 13°E. The Castelli di Jesi produces a smoother wine grown on a floodplain in younger, non-calcareous soils compared to the Matelica's strong and bold finish, grown in a synclinal valley on older calcareous soils (Conte et al., 2006). I hypothesize that terroir, how grape vines are influenced by their physical surroundings, exerts a significant control on these differences in wine flavor aside from anthropogenic controls instrumented by the winemaking process. This consistent dichotomy in wine flavor from smooth versus strong and bold is consistently unique to respective DOC's. Therefore, my hypothesis is strongly dependent on the disparity in soil types resulting in the Verdicchio's flavor contrast. The proposed studies will focus on plant-soil interactions, soil chemistry, composition, and texture, as well as microclimate variations.

Le Marche, an eastern Italian region, sits between the Apennine Mountains and the Adriatic Sea. Ancona, its capital, is a port city on the Riviera del Conero, an area with sandy coves, limestone cliffs and medieval villages. The interior has countryside dotted with fortified hilltop settlements and the glaciated valleys of the Monti Sibillini National Park.

Except for river valleys and the often very narrow coastal strip, the land is hilly. The climate in general is temperate. Inland, in the mountainous areas, it is more continental with cold and often snowy winters. By the sea, it is more Mediterranean.



WGS Minutes, December 12, 2016  
Immaculate Heart of Mary Church Hall

The business meeting was called to order at 8:12PM by our President John Hammetter.

The minutes of the November meeting were printed in *The Trilobite*. Tom Kullinger made a motion to accept the minutes as published. Phil Peychal member seconded. The motion was approved.

New Memberships: Leslie Schmerin applied for membership. A motion was made, seconded and approved to accept her membership.

Guests: Jacque, our guest speaker.

Kitty Klein read the Treasurer's Report. Chuck Riel made a motion to accept the current report for audit. Tom Kullinger seconded. The motion was approved.

#### Committee Reports:

The Show Committee: The show will again be the weekend after Mother's Day. The dealers have been selected. We're awaiting a decision on the kitchen.

Mineral & Fossil Study Groups: Check with Lloyd Brown first. The third Thursday is the Mineral Study Group at the West Milwaukee Community Center. Lloyd Brown broke his leg, so he will not be leading the study group at the West Milwaukee Center. We're combining Minerals and Fossils study groups.

Junior Rockhounds: Ed Fyrnys is thinking of moving the Juniors to a Saturday meeting.

Field Trip: The Millard Museum Field Trip in Elkhorn on Sunday, December 11 was cancelled due to bad weather. The trip will be rescheduled to December 18. Mike Macali is trying to arrange a behind the scenes tours UW Geology Museum, tentative date is in April.

Unfinished Business: None.

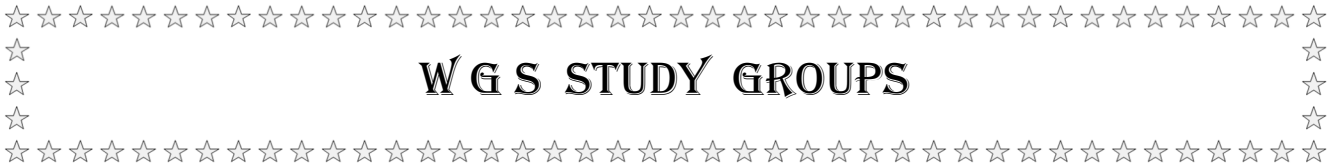
New Business: Tom Kullinger is proposing to have a rock swap among ourselves at the February meeting. Bring newspaper for packing.

Announcements: Mineral Explorers program on Create 36.3 on 10PM Sunday night. We received a thank you from UWM for donating \$1100 toward the purchase of a grain-sized analyzer.

Door Prizes: Donors: The Eyres, Tom Kullinger, Jody Rymaszewski, and Ed Miller. Winners: Mike Macali, Phil Peychal, Barbara Brown, Steve Klein, Bob Bialecki, Marilyn Smits, Tom Kullinger, Chuck Riel, Ed Fyrnys, Rebecca Schmidt, Leslie, Denise, Paul Schmidt, Ed Mueller, Wayne and Wanda.

Adjournment: Tom Kullinger made a motion to adjourn. Another member seconded. The motion was approved. The meeting adjourned at 8:38PM.

Submitted by Barbara Brown, WGS Secretary



WGS STUDY GROUPS

WGS LAPIDARY STUDY GROUP

Junior Rockhound meetings are on hold and are no longer being held during monthly Wisconsin Geological Society meetings. We are in the process of having a monthly Saturday afternoon meeting. No more information is available at the present time. All of this is in the planning and scheduling stage.

The new semester of class sessions for lapidary and metalworking begin on Tuesday, January 10th. They are held in the craft room of the McGovern Park Senior Center, 4500 West Custer Avenue, Milwaukee. In the case of inclement weather so that the Milwaukee Public Schools are closed, the classes on that day are cancelled at McGovern. The class sessions are held on Tuesdays in the morning from 9:00 am to 11:30 am and in the afternoon from 12:00 noon to 2:30 pm. Students who been chosen for the 2017 calendar year have been notified by the instructors. Students were chosen by lottery and should be county residents and be at least 50 years old.

The lapidary study group meeting for January, 2017 is scheduled for Tuesday, January 17th in the craft room at the McGovern Park Senior Center. We will view samples of various types of chalcedony.

Ed Fynys

Contact Ed Fynys for more information. Phone 414-453-3456

WGS MINERAL STUDY GROUP AND FOSSIL STUDY GROUP

The Mineral Study Group and the Fossil Study Group will hold combined meetings on the third Thursday of the month at the West Milwaukee Community Center.

Contact John Hammetter for more information 414-519-1958

2017 Show

Our 2017 Show will again be held at Hart Park the weekend after Mother's day. May 20 and 21. Mark your calendars.

Our biggest need right now is for someone to Volunteer to handle the Kitchen. At minimum we would like to continue with the tradition of offering baked goods and coffee. Last year we offered hot dogs and brats in addition to the pies, cookies and cakes. If we are going to offer these again this year it will take someone who is willing to take this on. Please think about it and let me know . We always have had people who are willing to help, but we need someone to plan and oversee the operation.

Paul Schmidt—Show Chairman pvs@wi.rr.com 414-771-8668

CALENDAR OF EVENTS

**March 4-5, 2017: Appleton WI:** “Fox Rocks”

**March 11-12, 2017: West Bend WI:** Kettle Moraine Geological Society Annual Show  
Washington County Fair Park and Convention Center  
3000 Hwy PV (1 block East of State Hwy 45)  
Sat 10-5, Sun 10-4

**March 25-26, 2017: Janesville Wi:** Badger Lapidary and Geological Society Rock and Gem Show; Washington County Fair Park & Convention Center  
3000 Hwy PV (1 block E of ST. Hwy 45); Sat 9-5, Sun 9-4

**May 6-7, 2017: Marshfield WI:** Heart of Wisconsin Annual Show

**May 20-21, 2017: Wauwatosa WI:** Wisconsin Geological Society Annual Show  
Hart Park, Wauwatosa, 72nd and State St  
Sat 10-5, Sun 10-5

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>

Remember: If you want your copy of the Trilobite sent to you by E-Mail, send me a note at [pvs@wi.rr.com](mailto:pvs@wi.rr.com). You will get the newsletter several days earlier, and the pictures will be in color. Paul Schmidt– Editor

**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  
2477 South 73rd Street, West Allis WI 53219

**If you have not paid your dues for 2017, this will be your last copy of the Trilobite**

Bench Tips from Brad:

LOOSE HEADS

Flying off the handle is never good, particularly if it's a hammer head.

The traditional way to tighten a loose hammer head is a bit of work with wedges, but if the head is basically secure, there's a fast and easy way to tighten a loose head for about 50 cents - superglue.

Simply put a couple drops in from the handle side, let it set up, and then a few drops from the top side. Be sure to get the thin super glue, not gel. It penetrates better. Packages of two superglues are usually available at the 99 cent store.

Note that this is only a safe practice if the hammer head is just a little loose but is basically secured onto the handle. Gluing is not a fix for a hammer head that has come off the handle or is at risk of coming off.

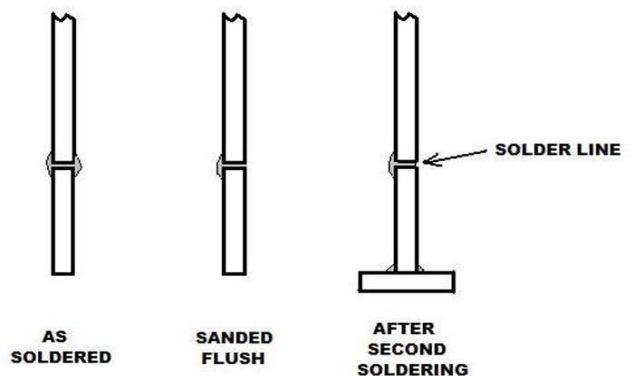


AVOIDING SOLDER LINES

After finishing a soldered joint on say a bezel, have you ever seen it reappear after you've soldered the bezel to a base plate? What's happening is that every time you heat a soldered piece to the temperature where solder flows, the liquid solder seeps a little more into the surrounding metal. This leaves a small furrow where the solder had been sanded off flush at the joint. To get rid of the furrow, you have to re-sand the joint area down to the bottom of the furrow.

To avoid this when I have another soldering operation to follow, I try to leave a little extra solder on my joints. For instance, when trimming off excess base plate from around a bezel, I leave a paper thickness of excess plate material whenever possible until I'm done with all soldering.

Of course, this isn't always possible as when a soldering operation will prevent you from gaining access to an area for final sanding and polishing. Coating the finished solder joint with ochre seems to help a bit but is not a complete solution.



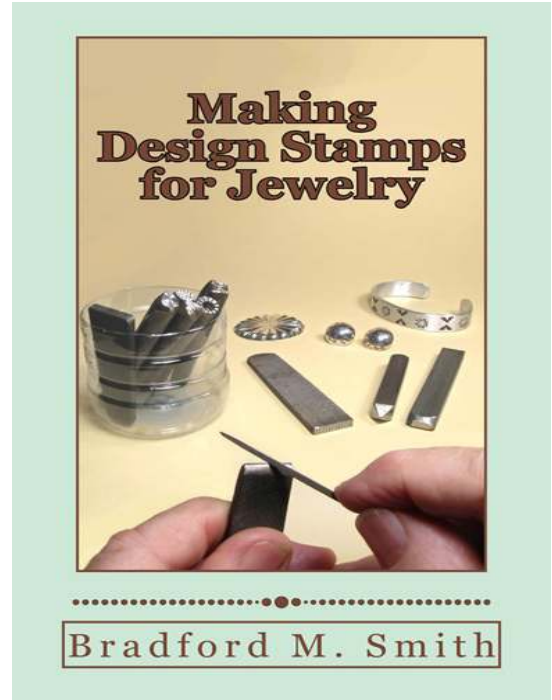
Announcing Brad's latest jewelry techniques book for those who like Southwest-style stamped jewelry.

"Making Design Stamps For Jewelry" covers the step-by-step process of selecting best steels, carving the design, hardening the steel, and tempering the completed stamp to ensure a long service life. It describes the tools to use, gives examples for how to make several design stamps, and 78 close-up photos that illustrate the important details.

Both Kindle and paperback editions are on Amazon at <http://amzn.to/2fvf58T>

See all Brad's jewelry books at [Amazon.com/author/BradfordSmith](http://Amazon.com/author/BradfordSmith)

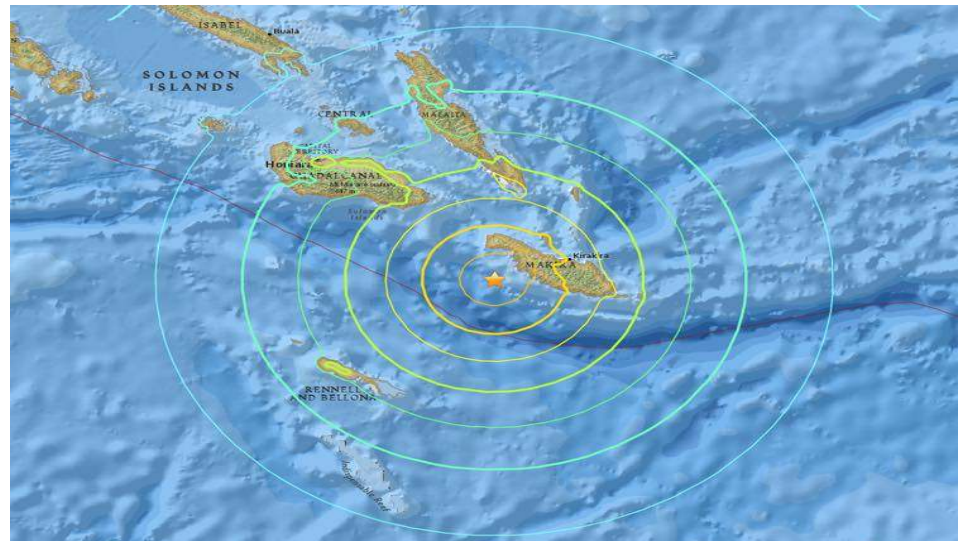
[www.BradSmithJewelry.com](http://www.BradSmithJewelry.com)



**Earthquake News:**

An earthquake with magnitude 7.8 occurred 56 mi. WSW of Kirakira, Solomon Islands at on Dec 9, 2016. This caused a tsunami warning to be issued for Hawaii which was cancelled not long after the quake, when it was determined that the islands were in no danger. The largest observed wave, according to sea level gauges, turned out to be only 5 inches near Honiara on the island of Guadalcanal, some 124 miles northwest of the epicenter. The epicenter was relatively deep at km 29 mi the USGS reported.

In the several hours following the earthquake, the Solomon Islands experienced ten significant aftershocks ranging from 4.5M to 5.5M.



**Earthquake News continued...**

In the December Trilobite, we reported on the 7.8 magnitude earthquake in North Canterbury, New Zealand that occurred on November 13<sup>th</sup>. More information about the effects on the geology of the area have recently appeared in the news. It has been reported that the slip occurred along at least four to six distinct faults with the greatest slip being about 10 meters along part of its length. Data from various GPS stations have revealed that Cape Campbell in the Marlborough region of the South Island of New Zealand moved horizontally north-east by 2 to 3 metres. It has also reported that the coast was raised between 0.5 m and 2 meters in the northeastern region of the South Island, from about 20 km south of the town of Kaikoura all the way north to Cape Campbell. In some spots, the lifting of the seabed left seaweed-covered rocks and marine animals exposed above tide level. (see picture below)

New Zealand is regularly hit by earthquakes because it sits in between the Indo-Australian and Pacific tectonic plates. The USGS has recorded over 60 aftershocks with magnitudes 4.5 or greater since the November event.



Photo by Anna Redmond

USGS



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## Hartung Park Silurian Bronze Educational Landscape Sculptures by Artist Laura Priebe

The following description of Hartung Park was posted by Bobby Tanzilo on the website onmilwaukee.com Aug. 9, 2014. The sculptures mentioned in the article were furnished by Artist Laura Priebe who had exhibited at one of our past shows. The sculpture garden is officially known as the Hartung Park Silurian Bronze Educational Landscape and is worth a visit.

To call Hartung Park a secret would be a stretch, but the park, which opened in spring 2010 on part of the old Hartung Quarry site is tucked away along Menomonee River Parkway in a residential neighborhood between Burleigh Street and Capitol Drive.

Though its footprint is not huge, the park -- at the corner of Keefe Avenue, on the edge of Tosa and Milwaukee -- is packed with amenities and so it's easy to see why it has quickly become a neighborhood favorite. But if you didn't live nearby, you might not even know Hartung Park exists.

Tosa farmer Frederick Hartung began quarrying the land in 1910, digging out the dolomite that was used in building homes and businesses around the area, including the tower at nearby Mount Mary College -- which can be seen above the trees from the paths that run through the park. Roughly three million tons of rock were pulled out of the pit that went nearly 100 feet into the ground.

The quarry operated on the site until 1961. In 1964, the City of Milwaukee began to fill the hole with trash, though in later years on clean fill like concrete and soil was dumped there. Skip ahead to 2005 and a group of neighbors formed the Hartung Park Community Association to create the park.

Now, there is a pond, a large mowed grass area, paths that stroll through prairie grasses, a super-fun playset (with bongos!) and, along the trails, a stone labyrinth.

A couple tables are often occupied by picnickers or folks watching their kids play. Along the playground are a series of panels that explain the history of the land, the story of the quarry and trace the birth of the park.

Just above this is a slope that is dotted with sculptures of the sorts of creatures that would've lived at Hartung Park when it was covered by an inland sea and the slope was part of a warm water inter-reef basin.

"Fossil evidence shows that the area was teeming with life, supporting diverse animal and plant communities," notes one of the panels. "Clinging to the bordering reefs, coral blooms of all shapes and sizes flourished. ... The low-energy nature of the inter-reef basin provided an ideal environment for the deposition, and eventual preservation, of many organisms upon their death. As a result, fossilized specimens of multiple Silurian-aged animals and plants have been discovered at Hartung Park." The stone here comes from two geological formations: the Oak Creek and Racine formations.

According to one of the panels, it is the trilobites in latter that is of the greatest paleontological significance.

continued on next 2 pages.....



"Containing one of the most diverse Silurian Period trilobite collections in the world, Hartung's bed-rock is known to exhibit fossils of over 20 species of trilobites. The abundance of Wisconsin's state fossil, species Calymene celebra, in certain Hartung strata is legendary. Fossil collectors reportedly found as many as 100 complete trilobite specimens in a day."

Many of them are represented not only by the sculptures in the park, but also in impressions left in the concrete that surrounds the playset.

When kids see them, they're delighted. Though, I admit, some are considerably more delighted by the hanging and spinning options on the cool playset.





Picture from Laura's website <http://priebe3d.com/>  
Many more pictures of her beautiful Silurian Period sculptures are available on her website.



All the pictures except for the one from Laura's website were sent to me by Jody Rymaszewski and were taken by a friend of hers.

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- Field Trips:..... Mike Macali: 414-321-9217  
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- Historian: ..... Jody Rymaszewski : 414-771-4780
- Junior Rockhounds:.....Ed Fyrnys
- MWF Liaison.....Jody Rymaszewski: 414-771-4780
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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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Volume 73 Number 01

# FIRST CLASS

To:

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**The Trilobite**



Jan 2017

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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, 1212 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:  
Paul and Verna Schmidt  
8213 Red Arrow Ct.  
Wauwatosa WI 53213  
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 80th year**