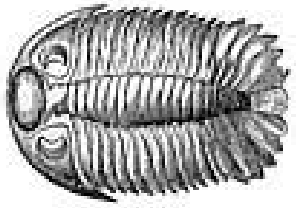
The Trilobite



Wisconsin Geological Society *JAN 2021*

NEXT WGS MEMBERSHIP MEETING
Monday, January 11, 2021

Pierre will now be hosting our zoom meeting on January 11, 2021 at 7:00PM.
The club authorized him to purchase the license. Hopefully our technical issues are behind us.
A week before the meeting he will send out the invitation with the link and password.

As usual, people are allowed to enter 15 minutes prior to the start time.

If you are not yet setup to use Zoom, you can download the app at zoom.com
You will need a camera on your computer as well as speakers.
It is easy to setup and test ahead of time. Just make sure you have audio and visual set on after you enter the meeting.

There is a lot on information on the web on how to setup and use zoom. Just google zoom.

If you get the Trilobite by mail and would like to be included in the zoom meeting, send me an e-mail and I will put you on the zoom invitation list. If you get the Trilobite by e-mail you are already on the list..

UWM's STILL ROCKIN'!

--WGS membership voted at the March 9th general meeting to approve endowment funds be used for a rock crusher for UW-Milwaukee to use in their Geoscience lab. We also requested that the university attach a small plate to the crusher showing WGS donated the funds for its purchase.

--The rock crusher arrived in late March while the building was closed due to Covid. There are plans to get it set up in the near future.

--The Geosciences Department Chair, John Isbell, sent this note: Thanks to WGS for your support of the department. Without your help there are many things that the department and our students wouldn't be able to do. We appreciate your support as a partner in geoscience education in SE Wisconsin.

Submitted by: Jody Rymaszewski

WGS Minutes, December 14, 2020 : Online Zoom Meeting

The business meeting was called to order at 7:18PM by our President, Pierre Couture.

Attendees: Barbara Brown, Darin Dubinsky, Pierre Couture, Don Shervey, Kitty Klein, Steve Klein, Jody Rymaszewski, Sue Eyre, Richard Hopefl, Bob Schmidt, John Hammetter.

The minutes of the November meeting were printed in *The Trilobite*. Dave Okruhlica made a motion to accept the minutes as published. Sue Eyre seconded. The minutes were approved.

New Memberships: We did have someone who e-mailed interest in the club.

Guests: None

Treasury Report: Treasurer did not attend the meeting, and no report was sent.

Committee Reports: no reports

Show:
Newsletter:
Lapidary:
Mineral & Fossil Study Groups:
Field Trips:
Junior Rockhounds:
Sunshine:

Unfinished Business:

A possible rock swap location may be West Allis Hale High School. Jody will look into this.
Memberships are due. Please mail your dues to Christopher Nohl.

New Business:

We are looking at creating a membership form people can fill out in PDF format.

Announcements:

Jody showed us a mini book called *My Rock is a Purse* found in Quarantine Books.com.
There's a You-Tube Channel on Geology hosted by Nick Zentner
https://www.youtube.com/channel/UC4szl4Ra1ZD3m80wJP40UBA.

There's a rock shop in Door County called Door County Rock and Gem in Fish Creek and in Ephraim.

Door Prizes: No door prizes.

Adjournment: Dave Okruhlica made a motion to adjourn. Another member seconded. The motion was approved. The meeting adjourned at 7:51 PM.

Barbara Brown, WGS Secretary

CALENDAR OF EVENTS

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**

The Badger Lapidary & Geological Society's October 2020 show has officially been cancelled. The Craig Center will not be available for the remainder of the year. The new dates are March 27 & 28, 2021. Hopefully everything thing will work out and we will be able to celebrate our 50th Rock & Mineral show in the new year

As of right now, the 2021 MWF Convention is to be held in Toledo, Ohio in September.

March 13,14 2021: Kettle Moraine Geological Society Annual Show
Washington County Fair Park & Convention Center at 3000 Hwy PV
West Bend, Wisconsin

Saturday 10:00 AM – 5:00 PM; Sunday 10:00 AM – 4:00 PM

Adults: $3.00; Children Under 12: Free

Kettle Moraine Geological Society (kmgsrocks.com)

According to the website, there will be lots of vendors, exhibits, and demonstrations.

At the website https://www.quarantinepubliclibrary.com/ you can browse and find free, small artist's books to print and collect at home. The books are on one piece of paper and they can be printed out, folded, cut a bit, and made into little eight-paged books.
One of the books is named: **"My Rock is a Purse"**, by Susan Greenspan! There are many others to chose from, too, and there are even instructions on how to create your own little book, if you are so inclined.

Submitted by: Jody Rymaszewski

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
Christopher Nohl, 3240 N. Summit Ave , Milwaukee 53211

Bornite, also known as **peacock ore**, is a sulfide mineral with chemical composition Cu_5FeS_4

Bornite has a brown to copper-red color on fresh surfaces that tarnishes to various iridescent shades of blue to purple in places. This striking iridescence gives it the nickname *peacock copper* or *peacock ore*.

Bornite is an important copper ore mineral and occurs widely in porphyry copper deposits along with the more common chalcopyrite.

The Peacock Ore ", which is sold to amateur mineral collectors and tourists, is often labeled as a variety of Bornite.
However, most Peacock Ore in reality is Chalcopyrite treated with acid, which produces a strongly-colored iridescent tarnish.

Info from wikipedia and geology.com

Bornite specimen sold on e-bay

Bench Tips by Brad

TEMPLATES

Whenever I have to make more than 2-3 exact copies of a sheet metal component, I think of making a template. Templates let me easily draw the shape of an item to cut out.

Art stores or online sources like cooltools.us/ and kingsleynorth.com/ sell templates for common shapes like circles, ovals, hearts, etc. but for nonstandard shapes, I make my own out of a scrap of sheet plastic or sheet metal. My preference is brass. I carefully lay out the shape using a steel ruler, a set of dividers, a scribe, and a fine center punch.

One example is the brass template in the pic below that let's me quickly trace the design of Ginko leaf earrings onto silver sheet. Another is the nickel template which makes it easy to drill a pattern of holes for pin inlay into wooden handles.

Bench Tips continued on next page...

OCHRE APPLICATOR

Yellow ochre is used when you want to be sure the solder won't flow on an area of your piece while you're soldering another area. The only problem with ochre is coming up with a good way to store and apply it.

I use recycled nail polish bottles. They seal well and have a built-in brush applicator. Just clean them out with a little acetone or nail polish remover, and they're ready to go.

- Brad Smith
BradSmithJewelry@gmail.com

Brad Smith Jewelry
Expand Your Jewelry Skills With Brad's "How To" Books at
http://amazon.com/author/bradfordsmith

Iridescence is the play of color, or a series of colors, produced by interference or diffraction (or both), either when light is reflected from thin films (inclusions), twinning planes or from the unique structure of precious opal. It is seen in nature in some minerals, butterfly wings, oil slicks, and even the scales of some snakes.

There are several types of mineral iridescence that have their own particular causes:

Labradorescence is the play of colors or colored reflections exhibited especially by the feldspar gem labradorite and is caused by internal structures that selectively reflect only certain colors. The phenomenon results from reflection of light from the layers of thin plates (lamellar) arrangement within the stone. The color reflected is usually a beautiful blue or yellow.

Adularescence (or Schiller) is an optical phenomenon that is produced in gemstones such as moonstones**.** Adularescence is the metallic iridescence originating from below the surface of a stone, that occurs when light is reflected between layers of minerals. The effect of adularescence, also commonly referred to as schiller, is best described as a milky, bluish luster or glow originating from below. It manifests as a soft shimmer moving within the gemstone as it is rotated. Adularescence occurs when light hits alternating layers of albite and orthoclase, two slightly differing forms of feldspar within the gemstone. These layers interfere with the passage of light, scattering its rays. The phenomenon is best seen when stones are fashioned as cabochons with the base parallel to the plane of the layers. The shimmer ranges in color from soft blue to milky white.

Aventurescence (sometimes called aventurization) is an optical reflectance effect seen in certain gems. The effect amounts to a metallic glitter, arising from minute, preferentially oriented mineral platelets within the material. These platelets are so numerous that they also influence the material's body color. In aventurine quartz chrome-bearing fuchsite produces a green stone, and various iron oxides produce a red stone. It is found in aventurine quartz and aventurine feldspar (sunstone). Goldstone is a man-made glass that has copper flecks suspended in it. This gives the stone the illusion of sparkle. Goldstone is usually made up of Gypsum and Feldspar and often comes in a reddish-brown color. But there are Goldstones that are also colored blue and green.

Opalescence refers to the optical phenomena displayed by the mineraloid gemstone opal (hydrated silicon dioxide). However, there are three notable types of opal (precious, common, and fire), each with different optical effects, so the intended meaning varies depending on context. The optical effects seen in various types of opal are a result of refraction (precious and fire) or reflection (common) due to the layering, spacing, and size of the myriad microscopic silicon dioxide spheres and included water (or air) in its physical structure. When the size and spacing of the silica spheres are relatively small, refracted blue-green colors are prevalent; when relatively larger, refracted yellow-orange-red colors are seen; and when larger yet, reflection yields a milky-hazy sheen.

Info from wikipedia.com, merriam-webster.com, geologyin.com, dictionary.sensagent.com

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Publisher:
Paul Schmidt
8213 Red Arrow CT.
Wauwatosa, WI 53213

Wisconsin Geological Society, Inc
Committee Chairpersons:

All-Amer Club Entry	Barbara Brown;:414-258-5761
UW-Milw Liaison:	Jody Rymaszewski: 414-771-4780
Field Trips:	John Hammetter: 414-444-5973
Historian:	Jody Rymaszewski : 414-771-4780
Junior Rockhounds:	Denise Hohenfeldt: 414-442-5618
MWF Liaison:	Jody Rymaszewski: 414-771-4780
Nominations:	Kitty Klein (3 yrs)
	Sue Eyre (2 yrs)
	Rebecca Schmidt (1yr)
Parliamentarian:	Jody Rymaszewski : 414-771-4780
Study Groups:	
Mineral:	Pierre Couture 414-475-0186
Lapidary:	
Show Chairman:	Paul Schmidt: 414-771-8668
WebMaster:	Pierre Couture: 414-475-0186
Sunshine Person:	Margaret Pearson: 414-464-0781
Business Agent	Margaret Pearson: 414-464-0781

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.

The **Wisconsin Geological Society, Inc** is a member of the Midwest Federation of Mineralogical and Geological Studies, which is a part of the American Federation of Mineralogical Societies.
www.amfed.org/mwf

WGS on Facebook:
Wisconsin Geological Society, Inc

President:
Pierre Couture
1001 S. 97th St
West Allis, WI 53214
414-475-0186

Vice President:
John Hammetter
2507 N. 61st St.
Milwaukee, WI 53213
414-444-5973

Secretary:
Barbara Brown
2446 North 69th Street
Wauwatosa, WI 53213
414-258-5761

Treasurer
Christopher Nohl
3240 N. Summit Ave
Milwaukee 53211
414-520-2870

Director (2022)
Bob Schmidt
13880 W. Wilbur Dr
New Berlin , WI 53151
262-844-5404

Director (2021)
Steven Mayer
1556 Blackfoot Drive
Grafton, WI 53024
414-277-7321

Director (2023)
Chuck Riel
4320 S. 46th St
Greenfield, WI 53220
414-328-3194

Editor: Trilobite
Paul Schmidt
8213 Red Arrow Ct.
Wauwatosa WI 53213
414-771-8668
pvs@wi.rr.com

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FIRST CLASS

To:

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

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3240 N. Summit Ave , Milwaukee 53211

The check should be made out to WGS

The Wisconsin Geological Society, Inc is now in it's 84th year