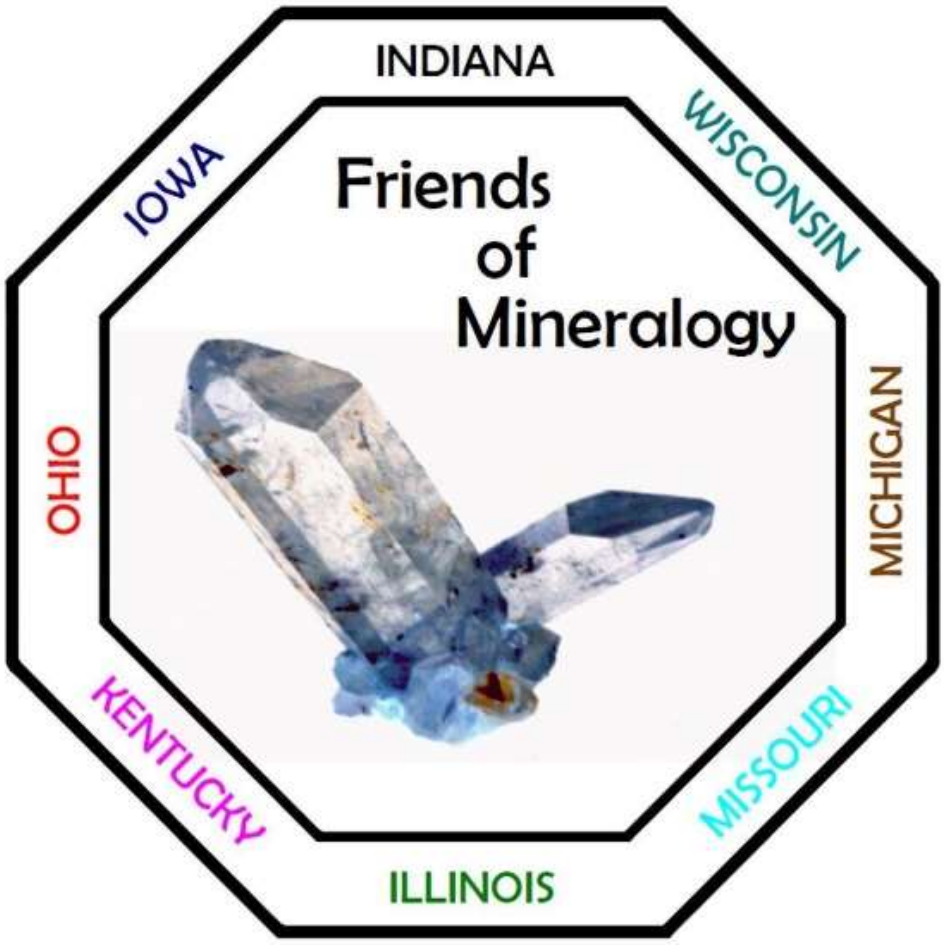
FRIENDS of MINERALOGY Midwest



Chapter Newsletter for

January – February 2022

TREASURERS REPORT

At this time, we are taking registrations for 2022 memberships. As of 12/15, 18 members have signed up. No formal 2022 program events are scheduled yet, but there is hope that we can begin resumption of normal activities in 2022. See page 13 of this newsletter for the year end club's financial report.

Dues are $20.00 and the procedure is the same as it has been in the past. You can find the registration form at the end of this newsletter and here at: http://www.fommidwest.org/registration-forms/

Jeff Spencer – Treasurer
Friends of Mineralogy Midwest Chapter
Treasurer@fommidwest.org

Obituary

Anne Duncan Cook

August 2, 1928 ~ October 30, 2021 (age 93)

Anne Duncan Cook (nee Johnson) was born 2 August 1928 in New York City to Stanley Todd Johnson and Dorothy Elizabeth Duncan Johnson and grew up in Queens. She graduated from Oberlin College in Oberlin, Ohio where she met her future husband, William Riley Cook, Jr.

Anne and Bill settled in the Cleveland suburbs where they were blessed with four children: William Riley Cook III of Littleton, Colorado, with his wife, Joanna Baily Cook; Elizabeth Graham Cook of San Jose, California, with her husband David Friedman and their two children, Rebecca and William; Barbara Duncan Cook of Canterbury, New Hampshire, and Susan Graham Cook of Madison, Wisconsin, with her wife, Karyn Joy Graham, and their daughter Ana Gabriela Graham Cook. More recently Anne has lived at Judson Park where she has been active in the life of that community.

After her marriage, Anne, having majored in mathematics at Oberlin, worked for AT&T long lines as a calculator and later tutored students in mathematics for many years. Anne was a member of Plymouth Church of Shaker Heights, playing in the bell choir, singing in the chancel choir, and she and Bill frequently served as greeters. Anne and Bill were active in educational investment clubs, often leading classes to help others become more knowledgeable in handling their personal resources.

They were enthusiasts in studying and collecting minerals and led classes for community groups along with mentoring those new to the hobby.

Anne was also active in Meals on Wheels for more than 30 years, helping organize and deliver meals as well as serving the board. Both Anne and Bill strongly supported education throughout their lives, anonymously providing support to encourage youth to attend college or professional training.

Anne was a gracious, giving person, and her sharp intelligence and generous spirit will be greatly missed by family and friends.

A Funeral Service to celebrate her life was be held at Plymouth Church of Shaker Heights, 2860 Coventry Rd., 44120 on Thursday, November 18th at 4 PM and was also a live broadcast on Plymouth Church's live link (www.plymouthchurchucc.org/livestream).

Friends of Mineralogy, Inc. Midwest Chapter
Annual Business Meeting Minutes- November 20, 2021
Virtual & Teleconference Meeting

Liaison Officer Randy Marsh welcomed those who attended the meeting.

Called to order by Liaison Officer Marsh at 2:05 PM, after declaring a quorum. Eight members were present during the meeting. The following officers were present: Randy Marsh, Liaison Officer; Jeff Spencer, Treasurer; Frank Konieczki, Secretary. Additional attending members were: Clyde Spencer; Johan Maertens; Tom Bolka; Janet Clifford; Ken Bladh. Field Trips/ Safety Officer Reggie Rose was unable to attend the meeting.

The following items/topics were presented and discussed:

Approval of Previous Meeting Minutes:

Liaison Officer Marsh asked if any corrections to the November 14, 2020 meeting minutes that were published in the January-February 2021 newsletter were necessary. No changes to the minutes were suggested or adopted by the attendees. A motion was requested and made to accept the minutes as published, and the motion was passed by unanimous vote. (Maertens/Spencer/P).

Approval of Annual Business Meeting Agenda:

The agenda outline was presented to those in attendance. Officer Marsh asked if there were any comments or proposals for changes to the agenda. No changes were recommended, and the motion introduced to approve the agenda passed without opposition.

Officer Reports:

Treasurer's Report: Treasurer Jeff Spencer stated that there has been $660 income in 2021, including dues received from two new members, and that brings the current total to 89 members. The expenses for the year have been limited to insurance and website fees. The account balance is approximately $100 short of last year's ending balance, but the chapter is in good financial condition, and Treasurer Spencer expects 2022 dues paid in 2021 will result in a net increase by year's end. Jeff indicated that Frank Konieczki completed the 2020 financial audit. Clyde Spencer suggested contacting the insurance company to possibly negotiate a reduction in insurance charges because of a decrease in membership and a lack of field trips in 2021. Treasurer Jeff Spencer said he would review the policy prior to making any possible contact. Discussion of the possibility of online registration began (see New Business).

Liaison Officer: Liaison Officer Randy Marsh noted that communications with National have improved considerably since changes in leadership took place. Virtual meetings are now allowed, which makes communication easier. The symposium that National led in collaboration with other organizations may be resuming. There is ongoing discussion of changing the FM logo, including the possible elimination of the mineral cluster that is part of the current logo, but no final decision has been reached.

Secretary: Secretary Frank Konieczki indicated FM Midwest hopes to have an educational table at the 2022 Greater Detroit Gem, Fossil and Mineral Show. The table FM was slated to have at the 2021 show was eliminated by the organizers because the display and educational areas were downsized, owing to pandemic concerns.

Newsletter Editor Tom Bolka thanked the members for providing material for the newsletter, and he indicated any new material or comments about changes to the newsletter format are always welcome.

Old Business:

Clyde Spencer asked about the prior approval of purchasing equipment for field trips. Jeff Spencer confirmed that two hand-held radios were purchased in late 2019 for communication in quarries, but they have not been used to date because of the hiatus in field trips caused by the pandemic. He confirmed that he currently has the radios. Jeff noted the field trip officer should have the radios at the field trip sites, which might create logistical issues when Field Trips/Safety Officer Reggie Rose is not able to attend a trip, so another pair of radios may need to be purchased in the future.

New Business:

First, the matter of resuming annual member dues was discussed, and the consensus was that the prior dues amount of $20 per individual was appropriate. The aforementioned proposal was brought to the floor as a motion and it passed unanimously (Konieczki/RMarsh/P).

The topic of online registration was discussed. Jeff Spencer observed that the constitution or by-laws would have to be changed to accommodate online payment, but the process might be attractive to many members. He indicated that PayPal fees for registration would be $.88 per $20 registration. Janet Clifford stated it might be a good idea to get input from members through the newsletter, and Jeff Spencer responded that he has already had numerous inquiries from members. Subsequently, a motion was made to set up a PayPal account for online registration. The motion was passed unanimously (Maertens/Bolka/P).

The nomination and election of officers was discussed. All current officers (Randy Marsh, Jeff Spencer, Reggie Rose and Frank Konieczki) had previously indicated they would be willing to continue in their current roles for the coming year. Secretary's Note: the former position of Vice President- Field Trips is now titled Field Trips/Safety Officer. The floor was opened for nominations, including any volunteers for the currently vacant president and vice president roles. There were no volunteers for the vacant positions, so the proposed slate of officers placed on the ballot was: Reggie Rose, Field Trips/Safety Officer; Jeff Spencer, Treasurer; Randy Marsh, Liaison Officer; Frank Konieczki, Secretary. The floor was closed for nominations. A motion was made to accept the proposed slate of officers, and the motion was unanimously approved (CSpencer/JClifford/P). Subsequently, Liaison Officer Marsh indicated that he or other officers would be happy to continue to chair meetings because of the President and Vice President vacancies.

For the Good of the Order:

Janet Clifford indicated she was sad to inform the attendees that longtime FM Midwest member Anne Cook passed away on October 31, 2021. Janet also indicated that the Cleveland Micromineral Symposium will very likely not be held at the Cleveland Museum of Natural History in 2022, owing to the retirement of the geology

and mineralogy department head. It is possible that event could be held at the retirement community that hosted the event several years ago.

Clyde Spencer indicated that Terry Huizing gave a recent talk on Midwest geodes for the Dayton Gem and Mineral Society and stated that he was selling a portion of his collection. Anyone who is interested should contact Terry directly. Jeff Spencer noted that Terry had 10 to 12 flats for sale at the Detroit show.

Johan Maertens indicated he will be working at the 2022 GeoFair, and since he will already be working for the Cincinnati club, Johan said he is willing to set up a FM Midwest table. He will provide a notice to be included in the newsletter regarding requests for volunteers and donation of specimens. Treasurer Spencer suggested that the chapter have a business meeting at the show (as has been done several times in past years).

Liaison Officer Randy Marsh suggested that anyone who has connections with academia is encouraged to have their contacts get in touch with him regarding possible programs. Names suggested were Chris Stefano, who currently lives in Arizona, but who has Midwest connections, and John Rakovan at Miami University. The latter was mentioned in relation to possibly resuming the FM Midwest Symposium. Johan Maertens suggested that having a virtual option for the symposium might be a good idea and bolster attendance. He noted that the Rochester Symposium this year was entirely online, and he suggested this may be the wave of the future. Randy suggested multi-organizational, cooperative programs might be possible since many clubs have small nuclei of passionate volunteers, and Johan cited the Cleveland micromineral contingent as a good example of such volunteers.

There was general discussion about the FM Virginia Chapter, which focuses on electronic communications and resources, rather than emphasizing field trips.

Liaison Officer Marsh thanked all attendees for joining the meeting to benefit the Chapter.

A motion to adjourn was entered and passed. (JSpencer/Clifford/P).

Meeting adjourned: 3:25 PM.

Respectfully submitted by Frank Konieczki, Secretary

Fluorescent Aragonite within Certain Metamorphic Rocks by, Calvin Harris

Introduction

The fluorescence and phosphorescence of aragonite has received the attention of many who seek knowledge of mineral luminosity. As a result, there are several publications that contribute toward understanding this phenomenon. Although there have been studies concerning the properties of aragonite in different rock types, less attention has been given to its luminescent characteristics as it formed in metamorphic rocks. This study examines the luminescent features of aragonite within marble from the Long Lake Zinc mine, Desert View mine and altered carbonate material from White Knob quarry. These rocks include minerals that can have an equal or higher degree of luminosity than the aragonite. However, this does not mean that the aragonite is any less interesting. The techniques employed not only allow assessment of fluorescence and phosphorescence generated by aragonite, but can also reveal phosphorescence when not anticipated.

Geological Settings

The Long Lake Zinc mine formed when calcitic metasediment deposits within the Grenville Province were subjected to regional metamorphic activity, involving high temperatures and pressure.

The Desert View mine is situated within Bonanza King Formation dolomite that was altered through contact-metamorphic activity.

The White Knob quarry is situated in a metamorphosed miogeoclinal carbonate rock that was transformed by plutonic intrusion.

Specimen Descriptions

Four samples from Long Lake Zinc mine measure from cabinet to large cabinet specimen sizes. The colors range from light gray to almost pure white. Fluorescent minerals such calcite, diopside, norbergite and other related members of the Humite group minerals may be present.

Two samples each from the Desert View mine and White Knob quarry were selected. They range from cabinet to large cabinet specimen sizes and others minerals including wollastonite and calcite are present within these specimens.

Test Procedures

Four ultraviolet wavelengths shortwave, 254nm; mid-wave, 312nm; longwave, 350nm and longwave 270nm were used to determine the luminosity characteristics of the specimens. The sources of this radiation were placed 1-2 inches from each sample to determine phosphorescence and 3-4 inches to assess fluorescence.

As in all cases, evaluation should begin by observing phosphorescence because it eliminates the need for eye sensitivity adjustment when first viewing fluorescence.

The exposure time needed for observing phosphorescence in the Long Lake Zinc mine specimens were some 30 seconds, while the Desert View mine and White Knob quarry specimens required approximately 10 seconds.

(Abbreviations: **fl**, fluorescence; **phos**, phosphorescence)

Test Results for Long Lake Zinc Mine Specimens

Specimen ID	Shortwave (254nm)	Mid-wave (312nm)	Longwave (350nm)	Longwave (370nm)
ch2007031fl	fl: Bright intensity, powder-blue color veins. phos: Weak intensity, blue-gray color, effect throughout, 1-2 second duration.	fl: Similar to SW. phos: Similar to SW, except 3 second duration.	fl: Bright intensity, whitish-blue veins. phos: Very weak intensity, gray color throughout, 2 second duration.	fl: Bright intensity, white color veins. phos: Lower intensity than 350nm, dull gray throughout, 1-2 second duration.
ch2008169fl	fl: Mod-bright intensity, powder-blue color vein. phos: Weak intensity, blue-gray color, 4-5 second duration	fl: Similar to SW. phos: Moderate-weak intensity, blue-gray color, 5 second duration.	fl: Vein, moderate-bright intensity, white coloration. Small areas, bluish-gray color, moderate intensity. phos: Very weak intensity, blue-gray color, 1-2 second duration.	fl: Similar to 350nm, except small areas slightly brighter. phos: Very weak intensity, gray color, 1-2 second duration.
ch2007131fl	fl: Indeterminate due to effects from other minerals. phos: Weak intensity, gray color throughout, 4 second duration.	fl: Moderate-bright intensity, cream with blue tint coloration. phos: Similar to SW except, weaker intensity, 3 second duration.	fl: Similar to MW, except cream w/blue color more saturated. phos: Very weak intensity, gray color, 2 second duration.	fl: Slightly brighter than 350nm. phos: Extremely weak intensity, gray color, 1-2 second duration.

ch2007080fl	fl: Aragonite not detected due to other fluorescent effects. phos: Moderate-low intensity, bluish-gray color, 4 second duration.	fl: Veins and patches display moderate-bright intensity; other areas show moderate intensity light-gray coloration. phos: Similar intensity and color as 254nm, 5 second duration.	fl: Similar to 312nm, except veins and patches more distinct. phos: Low intensity, whitish-gray color bleeds in areas, 3 second duration.	fl: Similar to 350nm, except slightly brighter. phos: Very weak intensity, white w/ gray tint veins spanned across specimen; 3 second duration.

Long Lake Specimen Photo's

ch2008169fl daylight **ch2008169fl lw** **ch2008169fl sw**

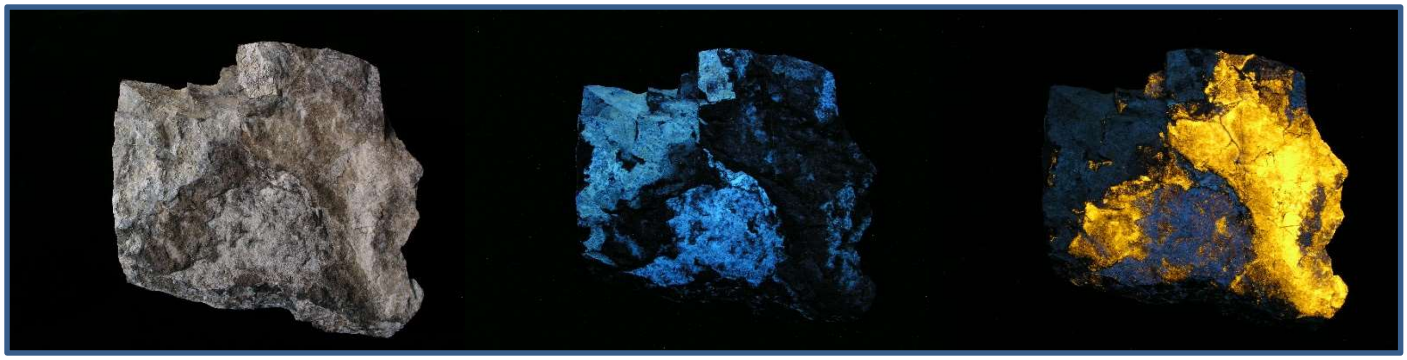
ch2008131fl daylight **ch2008131fl lw** **ch2008131fl sw**

Test Results for Desert View Mine Specimens

Specimen ID	Shortwave (254nm)	Mid-wave (312nm)	Longwave (350nm)	Longwave (370nm)
ch2007129fl	fl: Mod-bright intensity, blue-green color in sections. phos: Moderate intensity, blue-green coloration throughout, 4 sec. duration.	fl: Moderate-bright, yellowish-green color. phos: Moderate intensity, blue-green throughout, 5 second duration.	fl: Similar to 312nm. phos: Intensity and color less pronounced than 312nm, 4-5 second duration.	fl: Similar to 350nm. phos: Moderate intensity, yellowish-gray color throughout, 5 second duration.
ch2007113fl	fl: Moderate-bright intensity, blue-green color. phos: Bright intensity + areas of moderate bright intensity, blue-green color, 7 second duration.	fl: Area of bright intensity, white w/ powder- blue tint+ areas of moderate intensity, tan color w/ bluish tint. phos: Similar to 254nm, 6 second duration.	fl: Intensity, color similar to 312nm, except less blue saturation. phos: Intensity, color similar to 254nm, 5 second duration.	fl: Similar to 350nm. phos: Moderate-low intensity, lime-green color throughout; one area slightly brighter than other areas, 6 second duration.

Desert View Photo's

ch2008129fl daylight **ch2008129fl lw** **ch2008129fl sw**



ch2008113fl daylight **ch2008113fl lw** **ch2008113fl sw**

Test Results for White Knob Quarry Specimens

ch2015062fl	fl: Moderate-low intensity; blue-green w/ gray tint. phos: Moderate intensity, blue-green throughout color 6 sec. duration.	fl: Moderate bright intensity, cream w/bluish tint. phos: Moderate intensity, blue color throughout (similar to scheelite) 7 second duration.	fl: Moderate-bright intensity, cream w/bluish tint color. phos: Weak intensity, blue-gray color throughout, 2-3 second duration.	fl: Similar to 350nm. phos: Very weak intensity, color indiscernible 3 second duration.
ch2007153fl	fl: Moderate intensity, blue-green color (in sections). phos: Moderate-bright intensity, blue-green color throughout, 6 second duration.	fl: Moderate-bright intensity, cream w/slight blue coloration. phos: Similar to 254nm.	fl: Intensity similar to 312nm, cream coloration. phos: Moderate-low intensity, bluish-gray color throughout, 4 second duration.	fl: Moderate-bright intensity, cream coloration w/small areas of cream color w/blue tint. phos: Weak intensity, gray coloration throughout, 3 second duration.

Observations and Findings

The methods used for this study isolated the luminescent responses of aragonite and while the timing and distance measurements were approximate, meaning observation was possible to determine differences in color and intensity, as well as, the duration of phosphorescence. Mid-wave and longer wavelengths proved useful toward observing the luminescent effects of aragonite because of the diminished response of other minerals to these wavelengths.

The most interesting finding was that phosphorescence occurred throughout the areas of the specimens and not limited to areas where fluorescence was evident. Rocks can have micro-cracks which serves as pathways for luminescent activators to migrate, which could account for the phosphorescent response. However, the correlation between fluorescence and phosphorescence was atypical and a study is needed to understand this characteristic.

Additionally, an investigation is needed to determine why the Long Lake Zinc mine samples needed much greater exposure time to generate phosphorescence that normally required for observation. Moreover, the considerable difference in intensity between fluorescence and phosphorescence in the Long Lake Zinc mine samples is unusual for aragonite. Low intensity and diminished color saturation could possibly be attributed to low concentrations of activators, but these qualities were not observed in fluorescence.

Interesting outcomes have been highlighted by this study. While the phosphorescent characteristics of these specimens may not meet the desired visual display of many mineral collectors, investigating these features will provide a deeper understanding of the effects caused by ultraviolet radiation.

Selected References

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Friends of Mineralogy Inc Midwest Chapter	**2021 YTD**	
2021 Interim Financial Statement - 12/15/21	Amount	Notes
Beginning Account Balance	**$8,557.77**	
2021 Dues Amt. Received	$40.00	
2022 Dues Amt. Received	$360.00	
Total Dues Amt. Received in 2021	**$400.00**	
Total Symposium Donations	$65.00	
Fund raising	$0.00	
General Fund donations	$455.00	
other income	$0.00	
Total Non-Dues income	**$520.00**	
Total Income	**$920.00**	
Total Symposium expenses	**$0.00**	
2020 Swap table - expense	$0.00	
CMS Show Educational Exhibit award	$0.00	
Web domain registration, security and hosting	$107.88	
2021 insurance payment	$650.00	
National Dues payment 0	$0.00	waived
Total National Dues Paid	**$0.00**	
Total Disbursements	**$757.88**	
2021 Surplus/Shortfall	**$162.12**	
Current Account Balance	**$8,719.89**	
National Dues Credit	$328.00	

2021 extended 2020 memberships 87
2021 new members 2
2021 membership gain(loss) 2
2022 members registered 18

FRIENDS OF MINERALOGY, INC.
Midwest Chapter
APPLICATION FOR MEMBERSHIP
MEMBER DATA SHEET

Please fill in this application and mail it along with your dues to the address listed at the bottom.

Name _____
Last First Middle Initial

Address _____
Street City or Town

_____
State Zip/Postal Code

Telephone Number _____ (Home) _____ (Office/cell)

E-mail address _____

Would you be willing to serve as an officer or committee member/chair? _____

Would you be willing to serve in another volunteer capacity? _____

How did you find out about Friends of Mineralogy? _____

I affirm that I support the purposes* of Friends of Mineralogy:

Signature _____ Date _____

Friends of Mineralogy, Inc. is composed of the members of 7 local chapters, plus national members not affiliated with a chapter. **Prospective and renewing Midwest Chapter members should send this completed application and $20.00/year dues to the address below:**
Our Chapter is funded by membership fees, fundraising efforts and additional contributions. Please consider an additional contribution to help support us in achieving our Chapter Mission. We will email you a receipt for tax reporting purposes.
Additional donations: Annual Symposium $_____

General Fund $_____

Total (including Dues $_____

*

1. To promote interest in and knowledge of mineralogy.

2. To advance mineralogical education.

3. To protect and preserve mineral specimens and promote conservation of mineral localities.

4. To further cooperation between amateur and professional and encourage collection of minerals for

educational value.

5. To support publications about mineralogy and about the programs of kindred organizations.

Jeff Spencer, Treasurer
Friends of Mineralogy, Midwest Chapter
4948 Beechwood Rd., Cincinnati, Ohio 45244

Friends of Mineralogy Midwest Chapter Field Trip Waiver/Hold Harmless Agreement

1.0 I,_____, desire to participate in Friends of Mineralogy Inc. Midwest Chapter ("FMMC")
(please print full name of participant)
field trips/activities ("Activity"). I fully understand and appreciate the dangers, hazards and risks inherent during any Activity, in the transportation to and from the Activity, and in any independent research or activities I undertake as an adjunct to the Activity, which dangers include but are not limited to serious and mortal injuries and property damage.

2.0 Knowing the dangers, hazards, and risks of such Activity and research, and in consideration of being permitted to participate in the Activity and research, on behalf of myself, my family, heirs, assigns, my estate and anyone claiming through me, release waive, forever discharge and covenant not to sue FMMC, it's officers, directors, members, agents or third parties (hereafter called the "Releasees") connected with the FMMC Activity of any and all claims, loss, injury, damage, demands, actions, causes of action, costs, and expense of every nature, known or unknown for damage to personal property, personal injury, death, as well as any emotional or psychological harm, or damages or loss of reputation, employment, contract, property rights and due process.

I further agree to assume all the risks and responsibilities known or unknown surrounding my participation in the Activity, including transportation to or from, or any independent research or activities undertaken as an adjunct thereto. I understand the activities have inherent risks and I understand those risks and assume responsibility to protect myself from those risks and acknowledge that FMMC cannot foresee all risks and hazards.

3.0 I understand and agree that Releasees do not have medical personnel available at the location of the Activity. I understand and agree that Releasees are granted permission to authorize emergency medical treatment if necessary, and that such action by Releasees shall be subject to the terms of this agreement. I understand and agree that Releasees assume no responsibility for any injury or damage which might arise out of or in connection with such authorized emergency medical treatment.

4.0 In signing this Release, I acknowledge and represent that I have fully informed myself of the content of the foregoing waiver of liability and hold harmless agreement by reading it before I sign it, and I understand that I sign this document as my own free act and deed; no oral representations, statements, or inducements, apart from the foregoing written statement have been made. I understand that the corporation (FMMC) does not require me to participate in this Activity, but I want to do so, despite the possible dangers and risks and despite this Release. I further state that I am at least eighteen (18) years of age, and fully competent to sign this Agreement – and that I execute this Release for full, adequate, and complete consideration fully intending to be bound by the same. I further state that there are no health-related reasons or problems which preclude or restrict my participation in the Activity, and that I have adequate health insurance to provide and pay for any medical costs that may be attendant as a result of injury to me.
5.0 I further agree that this Release is in effect in perpetuity once executed, unless revoked in writing and shall be construed in accordance with the laws of the state in which FMMC is incorporated, Ohio. If any term of this provision of this Release shall be held illegal, unenforceable, or in conflict with any law governing this Release, the validity of the remaining portions shall not be affected thereby.
IN WITNESS WHEREOF, I have executed this Release this ____ day of the month of _____, 20___.
Participant Signature: _____
Address: _____, _____, _____, _____
Street City State Zip Code
Phone (with area code): _____ email: _____
Emergency Contact: _____ Phone (with area code): _____
Witness Signature (must be at least 18 years old): _____

2022 Officers

President – Vacant

Vice President Programs – Vacant

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Fund Raising (Committee Chair) - Vacant

Newsletter (Committee Chair) Tom Bolka, 2275 Capestrano Dr.
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Newsletter published bi-monthly in January, March, May, July, September and November. Please submit all information for publication in the newsletter by the 15th of the previous month.

Chapter Website:

www.fommidwest.org

National Website:

www.friendsofmineralogy.org

Affiliations:

THE MINERALOGICAL RECORD
THE MINERALOGICAL SOCIETY OF AMERICA
AMERICAN GEOSCIENCES INSTITUTE
MINERALOGICAL ASSOCIATION OF CANADA
ROCKS & MINERALS MAGAZINE
MINERAL NEWS
MINDAT

Our purpose is to organize and promote interest in and knowledge of mineralogy; to advance mineralogical education; to protect and preserve mineral specimens and promote conservation of mineral localities; to further cooperation between amateur and professional and encourage collection of minerals for educational value; and to support publications about mineralogy and about the programs of kindred organizations.