



OUTCROPPINGS

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July 2021

Incorporated April 8, 1970

Meetings held on the second Thursday of each month at 7:30pm (excluding July and August)
in Room 130 of the Conant Science Building at Bridgewater State University,
14 Park St., Bridgewater, MA

President: Suzanne Wall srockwall@yahoo.com

Vice President: Steve Kimball steve@kimbalpainting.com

Secretary: Sara Ostrander naturespeaks2you@gmail.com

Treasurer: Dr. Robert Chasen drchasen@comcast.com

Newsletter Editor: Larry J Ryan zone859@verizon.net



A MESSAGE FROM OUTGOING President, Suzanne Wall

Election Results 2021

President Walter Schell wschell1191@gmail.com

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Message from the Editor

Greetings!

The pandemic is on the run and Club members are champing at the bit to get the digging season underway. As always if any member has something to share, let me know so we can get it in the Newsletter. Larry Ryan zone859@verizon.net

Field Trip Agenda

Field collecting trips are open to SEMMC members only, as our insurance policy covers members only. Please bring your SEMMC Membership card with you.

All participants of field trips are required to contact trip leaders at least 48 hours in advance of trip date.

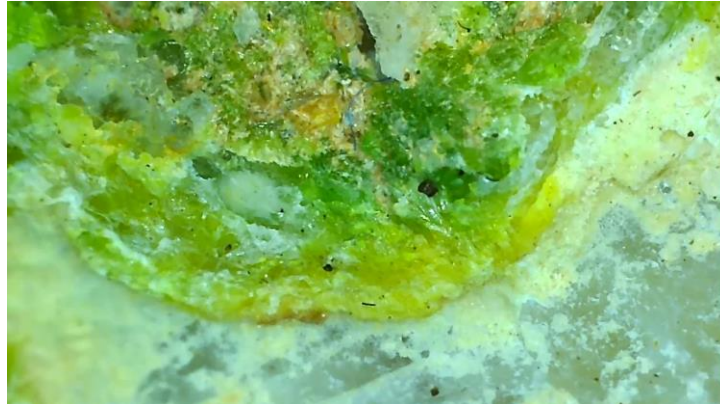
Schedules may change. Please contact the host to confirm date, time and details.

Some trips may be eliminated, added, or altered depending on weather and other circumstances.

However, please remember we do have a club claim in Fonda, NY and it is open year-round, weather permitting.

Next Scheduled Field Trips

July 18, 2021
Louden Lead Mine Trip
Host Dan Ryan. Asst. Steve Kimball



Lots of micros to be found here!

July 25, 2021
North Attleboro Plant Fossils
Trip Host Dan Ryan. Asst. Steve Kimball



The American Federation of Mineralogical Societies "Code of Ethics"


- ◆ I will respect both private and public property and will do no collecting on privately owned land without permission from the owner.
- ◆ I will keep informed on all laws, regulations or rules governing collecting on public lands and will observe them.
- ◆ I will, to the best of my ability, ascertain the boundary lines of property on which I plan to collect.
- ◆ I will use no firearms or blasting material in collecting areas.
- ◆ I will cause no willful damage to property of any kind such as fences, signs, buildings, etc.
- ◆ I will leave all gates as found.
- ◆ I will build fires only in designated or safe places and will be certain they are completely extinguished before leaving the area.
- ◆ I will discard no burning material - matches, cigarettes, etc.
- ◆ I will fill all excavation holes which may be dangerous to livestock.
- ◆ I will not contaminate wells, creeks, or other water supplies.
- ◆ I will cause no willful damage to collecting material and will take home only what I can reasonably use.
- ◆ I will practice conservation and undertake to utilize fully and well the materials I have collected and will recycle my surplus for the pleasure and benefit of others.
- ◆ I will support the rockhound project H.E.L.P. (Help Eliminate Litter Please) and will leave all collecting areas devoid of litter, regardless of how found.

- ◆ I will cooperate with field-trip leaders and those in designated authority in all collecting areas.
- ◆ I will report to my club or federation officers, Bureau of Land Management or other authorities, any deposit of petrified wood or other materials on public lands which should be protected for the enjoyment of future generations for public educational and scientific purposes.
- ◆ I will appreciate and protect our heritage of natural resources.
- ◆ I will observe the "Golden Rule", will use Good Outdoor Manners and will at all times conduct myself in a manner which will add to the stature and Public Image of Rockhounds everywhere.



* SAFETY BULLETIN *



Safety Tip = All geological sites present hazards of varying degrees and further hazardous situations can develop during a visit. Falling rock is a particular hazard and it should not be assumed that any rock face in an active, inactive, abandoned or historic quarry, or forming a natural cliff, is safe. Vehicle movements present a major hazard at active quarries.

 **PREVENT
LYME
DISEASE!**

- WEAR REPELLENT
- CHECK FOR TICKS DAILY
- SHOWER SOON AFTER
BEING OUTDOORS
- CALL YOUR DOCTOR IF YOU
GET A FEVER OR RASH

 For more information:
www.cdc.gov 

Mineral of the Month



Chiestolite

From Wikipedia, the free encyclopedia

Jump to navigationJump to search
Andaluzyt (chiastolit) - Hiszpania..JPG

Chiastolite is a variety of the mineral andalusite with the chemical composition Al_2SiO_5 . It is noted for distinctive cross-shaped black inclusions of graphite. The presence of the cross caused this mineral be used as a gem. Chiastolite specimens were distributed throughout Europe from the 16th century, as an amulet or souvenir provided by the pilgrims returning from Santiago de Compostela (Saint James of Compostella), in Spain. In the old books of mineralogy, chiastolite appears it is cited with the name of lapis crucifer or lapis cruciatur, cross stone. The first figure of a chiastolite appears in Laet's book, De Gemmis et Lapidibus, published in 1648.[1] The quiastolite specimens sold to the pilgrims came from Asturias, where it is very abundant, in large specimens, in the area of Boal.[2]

In areas around Georgetown, California, metamorphosed sediments contained andalusite and chiastolite in a graphite rich metasediment. The chiastolite crystals have been pseudomorphically altered by a mixture of muscovite, paragonite and margarite. The calcium rich margarite tends to form along the graphite rich crosses or bands within the chiastolite. Mineralogically the occurrence is important because all three white mica phases are present in an equilibrium assemblage.[3]

There are several theories regarding the formation of the chiastolite cross, however the most widely accepted theory, proposed by Frondel in 1934, suggests that there is a selective attachment of impurities at the rapidly growing corners of andalusite crystals. As the concentration of these impurities (which consist primarily of graphite) increases, the growth of the crystal is slowed. This concentrated impurity deposit forms a re-entrant as it is absorbed by the growth of the andalusite porphyroblast. The cycle of growth-retardation-growth then repeats itself, creating a featherlike pattern of graphite along four radiating 'arms'.[4]

Geology Article

Iceland a Land Split down the Middle



Geldingadalir Volcano

It was at the beginning of March 2021 when the earth started shaking in the Peninsula just south of **Reykjavik**. Many quakes, some greater than 5 on the Richter Scale, had residents nervous. Then suddenly on the 19th of March the earth split and magma came shooting out of a crack in the ground. Geldingadalir Volcano was born. Local residents soon flocked to the area to catch the birth of the volcano. This is the first eruption in this area in over 800 years. As the days passed a number of other vents along a line started to shoot magma into the air. An impressive display to say the least! Up to 8 cracks started, but soon the number was down to one. Spectators could hike up to the fissure and stand within a couple hundred feet of the magma fountains.

Iceland sits at the border of the North American and the Eurasian tectonic plates. These plates are basically separating and the fault line separating the two can be seen across the country side of Iceland. So as the plates shift positions in relation to each other, fissures open in the earth allowing the magma to rush to the surface. This eruption started around nine miles deep below the surface and the lava fields now extend out for a few kilometers in each direction. Scientists are currently speculating on the effect of the tides on the eruption cycle. Some report that the eruptions are more intense at night also.

Scientists have flocked to the area in droves and every aspect of volcanic evolution is being scrutinized. Iceland volcanologists call this a classic shield volcano formation and no one has any idea of how long it will erupt. Anyone can

follow the progression of the volcano on Youtube where many videos can be viewed. (Type in Current Iceland Volcano) Lava samples displayed by local news reporters show crystals formed on the underside of each piece. Look up the purchase of specimens!

Iceland Officials have attempted to block the flow of lava and direct it into areas that will not affect local residents. Only one is still holding at this writing, while the others have been overrun by the lava. While it's always a danger to be too close to the caldera, some people still try to cross the unstable lava fields and one man had to run for his life and only pure luck saved him from cremation. Still this is a force of building land and making new rock and mineral fields for the distant future. Don't miss this spectacular event!

The Funnies

What's our Favorite Rock Group?



The Rolling Stones!

We Thank Our Volunteers

Thank you to all the Club Members that volunteered during the last few months! Our Club has emerged into a new year and much needs to be done to make 2021 a successful year for us.

Volunteers! We always need them and if you can assist the Club in anyway, such as assisting the Dig Trip Hosts with ideas, equipment, refreshments...Club Officers with any new ideas to help make the Club a continuing success! Please join in! We welcome ALL!

Come and Join Us!
Tell your friends and family!
Sign Up Now!
Membership Renewal

Your dues help keep us going. Dues pay for the newsletter, correspondence, refreshments, speakers, and a host of other expenses. Dues are as follows:

- Individual Membership \$15.00 Yearly Dues with e-mail newsletter-
- Family Membership * \$20.00 Yearly Dues with e-mail newsletter-
- * Family Membership must list all family members as of September 1 of the membership year.

Tear off and return with your payment made out to SEMMC, Inc.

Date _____ Name(s) _____

Name(s) and Age(s) of children _____

Address _____

City _____ State _____ Zip code _____

Phone(s) _____ Email
address _____

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