



Rhode Island Mineral Hunters  
A 501 (c) (3) HP Organization

# BOWEN-LITE

WWW.RIMH.US



CUMBERLANDITE –OFFICIAL STATE ROCK

BOWENITE – OFFICIAL STATE MINERAL

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RIMH 2018

## RIMH

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Bill Neal - Librarian  
Tony Cesana – Show Chairman  
Tony Cesana - Parliamentarian  
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Edited/photos by Paul Koczwanski pakman844@aol.com

\*If anyone would like to submit an article or anything for future publication let me know



Beavertail Jamestown, RI

### Upcoming Meeting Details

Executive Meeting date in April is:

Tuesday April 27th. All meetings start at 7pm  
AND WILL BE THE LAST TUESDAY OF THE MONTH

This year meetings will be held at Lou Fazzinas' rock shop (Apple Valley Minerals)

7 Homestead Avenue  
Smith field, RI 02917

\*Homestead is off Farnum Pike.

The General meeting will be Friday, April 13<sup>th</sup> at 7pm CCRI Warwick campus . The room should be 1130. The April auction will be held Friday the 13<sup>th</sup> of April in lieu of the regular meeting.



Opossum

The show committee is looking for one or two more volunteers to plan the show. Also ask everyone to pencil in the last weekend of October to help in one way or another many hands make light work

From Tony and Rachel Cesana

Rachel and I run an open house on Friday evenings to talk all things club related. If members have specimens that they need ID help we have a good scope. We will do tumble polish classes and wire wrap learning also field trimming classes are available.

Please contact us by Thursday of that week. This is available every Friday.

phone number 401-766-9076

email [a\\_cesana@verizon.net](mailto:a_cesana@verizon.net)

PROPOSED FIELD TRIP APRIL 7<sup>th</sup> :

**Where:** Quabbin Shaft #10 Hardwick MA - GPS +42.377188 N -72.162173 W

Meet at Phillips Shopping Plaza, Ware, Ma - GPS +42.254757 N -72.252751 W

**Trip Leader:** Rachel Cesana

**When:** Saturday, April 7, 2018 AT 9:30

**Tools needed:** Small garden tools, rock hammer, loop, material to rap finds in.

**Dress:** Dress for Late March weather conditions

**Minerals to be found:** Babingtonite, epidote, fluorite and many others – mostly micros, but very nice! (*See below for full list of minerals at this location*). Also, the scenery here is stunning, even at this time of the year! This tailing pile is the result of the tunneling done to bring the Quabbin Reservoir water to Boston..

**Directions:** From RT 146 north or RT 395 north (which ever is easier from your locality) take RT I 90 west in MA. From RT I 90 take the exit for RT 32 north (Palmer MA). Follow RT 32 north to Ware MA. Look for Phillips Plaza on your right. It takes about 2 hrs to get there from Providence so give yourself extra time in case of traffic delays. We will park here and car pool the rest of the way as there is room for only about 4 vehicles. Please be at the Phillips Plaza by 9:30 am. Look for red Jeep Liberty.

From Phillip's Plaza take right onto Rt. 32 and follow thru Hardwick . here it splits into 32 and 32a. make sure to follow Rt. 32. Watch for Shunpike Rd (it has a sign for a kiln and railroad tracks crossing Shunpike) Take left onto Shunpike and follow to end then take right onto Prouty Rd. Follow past small farms til you get to Taylor Hill Rd (there is a larger farm here with a large sign) take left onto Taylor and follow til you go over small bridge, gate will be on the right. **Do Not Block Gate.** Walk straight in at the gate about half a mile. You will see what looks like a large cement sewer cover.. Take right through woods here to tailing piles. There is a path.

## Mineral List

<a href="#">Albite</a>	<a href="#">Fluorite</a>	<a href="#">Limonite</a>	<a href="#">Sphalerite</a>
<a href="#">'Allanite'</a>	<a href="#">Galena</a>	<a href="#">Magnetite</a>	<a href="#">'Stilbite'</a>
<a href="#">Anglesite</a>	<a href="#">Goethite</a>	<a href="#">Microcline</a>	<a href="#">Thomsonite-Ca</a>
<a href="#">'Apatite'</a>	<a href="#">Gypsum</a>	<a href="#">Opal</a>	<a href="#">Titanite</a>
<a href="#">'Apophyllite'</a>	<a href="#">var: Selenite</a>	<a href="#">var: Opal-AN</a>	<a href="#">Tremolite ?</a>
<a href="#">Babingtonite</a>	<a href="#">'Heulandite'</a>	<a href="#">Orthoclase</a>	<a href="#">Zircon</a>
<a href="#">Calcite</a>	<a href="#">Ilmenite</a>	<a href="#">Prehnite</a>	
<a href="#">'Chlorite Group'</a>	<a href="#">'K Feldspar</a>	<a href="#">Pyrite</a>	
<a href="#">Epidote</a>	<a href="#">var: Adularia'</a>	<a href="#">Quartz</a>	
	<a href="#">Laumontite</a>	<a href="#">Rutile</a>	

### FIELD TRIP 04/21/18

#### Diamond Hill, Cumberland and Calumet Hill

We will visit both places this day. We will do Diamond hill in the morning and Calumet Hill in the afternoon. Calumet Hill is located across the road from Diamond Hill.

**Where: Diamond Hill, Cumberland, RI**

**Trip Leader:** Rachel Cesana [401-766-9076](tel:401-766-9076) to sign up for trip

[401-787-3129](tel:401-787-3129) day of trip only

**When: Saturday, April 21, 2018 8:30 am to 11:45 am – Diamond Hill**

**Saturday, April 21, 2018 12:15 am to 4:00 am – time approximate**

**Tools needed:** Rock or Mason hammer, small sledges, other hard rock tools, safety glasses, wrapping material to protect specimens.

**Dress:** Dress for summer weather conditions, Closed-toed shoes, bug spray, long pants

**Minerals to be found:** Quartz crystal coatings and veins in rocks, jasper, interesting quartz veins.

Some nice quartz crystals have been, and still are, found here at the top of the old ski slope and also in the dumps to the right of the slope. It is a steep but relatively short hike to the top. Recently, nice florets and crystals of magnetite have been found.

At Calumet Hill there is quartz with needles of riebeckite, some fluorite.

**Directions:** From **I-295 either direction**, take exit 11 and head north on **RT 114** (Diamond Hill Road) for 4.0 miles. Pull into the parking lot on the right at Diamond Hill State Park. The parking lot is almost directly across the street from the Ice Cream Machine Creamery.

## Minerals found at Diamond Hill according to Mindat

ⓘArsenopyrite      ⓘBaryte      ⓘ'Bloodstone'  
 ⓘ'Fayalite–Forsterite Series'      ⓘ'Feldspar Group'      ⓘFluorapatite  
 ⓘFluorite      ⓘGalena      ⓘGoethite      ⓘHematite  
 ⓘIlmenite      ⓘ'var: Adularia'      ⓘLepidocrocite      ⓘ'Limonite'  
 ⓘMagnesio–hornblende      ⓘ'Olivine'      ⓘOrthoclase      ⓘPyrite  
 Quartz      ⓘvar: Agate      ⓘvar: Agate–Jasper      ⓘvar: Amethyst  
 ⓘvar: Chalcedony      ⓘvar: Citrine      ⓘvar: Jasper      ⓘvar: Milky Quartz  
 ⓘvar: Onyx      ⓘvar: Prase      ⓘvar: Rock Crystal      ⓘvar: Sardonyx  
 ⓘvar: Smoky Quartz      ⓘ'Turgite'      ⓘZoisite

## FUTURE PLANNED TRIPS...KEEP THESE DATES IN MIND

MAY 5TH SIMPSON QUARRY S. GLASTONBURY, C.T.  
BERYL, TORBENITE, QUARTZ, MICA, ALBITE

JUNE 23 & 24 GILSUM ROCK SWAP AND SHOW (OUTDOORS)

THERE WILL BE MORE BUT THESE ARE STARTER TRIPS FOR OUR NEW MEMBERS AS THERE IS ENOUGH EASILY FOUND SPECIMENS TO TEACH HOW TO COLLECT. LATER TRIPS WILL BE MORE COMPLICATED AND INTERESTING.  
STILL TRYING TO FIND CONTACT PERSONS FOR THESE TRIPS.

NEXT MEETING FOR FIELD TRIP COMMITTEE MARCH 9TH AT 7 AT RACHEL CESANA'S HOUSE  
85 ST PAUL ST NORTH SMITHFIELD RI 02896  
401-766-9076  
STILL LOOKING FOR MORE VOLUNTEERS. THANKS

## A note from the field trip coordinator Rachel Cesana

If anyone knows of any places we can go for a field trip please let her know. She wants to line up some places for the upcoming year. Please relay all pertinent information to her such as place names, contacts(property owners and/ or persons in charge), phone numbers or other means of contact. Rachel's phone number is (401) 766-9076. Email [a\\_cesana@verizon.net](mailto:a_cesana@verizon.net)

Member Submissions and News

### 6th Annual New England Mineral Conference

The *6th Annual New England Mineral Conference (NEMC)* will be held Friday, May 11 through Sun., May 13, 2018 at the Grand Summit Resort Hotel and Conference Center at Sunday River, Newry, Maine. Presentations on both New England and non-New England topics are scheduled on Friday evening and during the day on Saturday. In addition, there is a Friday evening banquet sponsored by the Maine Mineral and Gem Museum, mineral displays and exhibits, and both a voice and a silent auction in support of the conference. Dealers can be visited by registrants from Friday afternoon through Saturday evening (except during the presentations). The weekend culminates with a field trip on Sunday.

An exciting feature of the conference is *Education Day* a fee-free event for students in grades 3-12, which occurs on Friday, May 11. On *Education Day* students can visit over 20 different stations to learn about minerals and geology. There is also a juried *Poster Contest* which gives the opportunity for students to submit a research project about anything relating to the rocks and minerals of New England. Winning posters in each category will be displayed throughout the conference.

For further information about the conference please visit:

<http://www.neminealconference.org/Welcome.html>

For information about *Education Day/Poster Contest* please visit:

[www.neminealeducation.org](http://www.neminealeducation.org)

The *New England Mineral Conference* is a division of the non-profit *New England Mineral Association*.

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Calendar Entry for Newsletters

**May 11-May 13, 2018:** *6th Annual New England Mineral Conference*, Grand Summit Resort Hotel and Conference Center at Sunday River, Newry, Maine. The conference includes lectures, mineral exhibits, mineral dealers, auctions, a banquet, and a field trip. The NEMC also sponsors *Education Day* and a *Poster Contest* for students in grades 3-12. For further details and registration information visit: <http://www.neminealconference.org/Welcome.html> or [www.neminealeducation.org](http://www.neminealeducation.org).

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Contact information:

Jan Morrison, Executive Director: 207.956.2862; [jmwrites@maine.rr.com](mailto:jmwrites@maine.rr.com)

New England Mineral Association, PO Box 33, East Poland, ME 04230

Website: <http://nemineralassociation.org/>

Facebook: <https://www.facebook.com/NewEnglandMineralAssociation/>

### Mineral of the Month

In this continuing series, I am providing information for those members who are new to the field of mineral collecting and need to know what you are looking for when you go out on field trips or just on your own. Some common minerals you may see but, might not know what they are. This month, I will be looking into the mineral ; Zoisite

Zoisite is a mineral that includes several gem varieties. The most important and well-known is **Tanzanite**, a sensational blue gemstone. The variety **Thulite** is used as a minor pink gemstone. A variety known as **Ruby Zoisite**, which is green Zoisite associated with opaque red **Ruby** (and often black **amphibole** streaks), is used as a carving gemstone as well as a minor gem. The term Zoisite is rarely used on its own in the gemstone trade.

<b>Chemical Formula</b>	Ca <sub>2</sub> Al <sub>3</sub> (SiO <sub>4</sub> ) <sub>3</sub> (OH)
<b>Color</b>	Blue, Red, Green, Pink, Purple
<b>Hardness</b>	6 - 6.5
<b>Crystal System</b>	Orthorhombic
<b>Refractive Index</b>	1.69 - 1.70
<b>SG</b>	3.2 - 3.4
<b>Transparency</b>	Opaque. May be translucent in thin backlit sections.
<b>Double Refraction</b>	.009
<b>Luster</b>	Vitreous
<b>Cleavage</b>	1,1

Zoisite would not be of significant importance if not for the discovery of the transparent blue to purplish-blue variety that has been given the name **Tanzanite**. This form of Zoisite is the main gem variety and has become increasingly popular and mainstream ever since its recent discovery.

The pink to red variety, called **Thulite**, is an opaque **compact** Zoisite formed from densely interlocking crystals. The opaque green variety, which is often found in association with **Ruby**, was first discovered in Tanzania in 1954. This combination gemstone usually contains black **amphibole inclusions** or veins, and its frequent association with red opaque Ruby give it a unique color and contrast. This combination is known as **Ruby Zoisite** in the gem trade, and is occasionally also called *Anyolite*

## Uses

**Tanzanite** is a very popular jewelry gemstone, faceted into all different gemstone cuts. **Thulite** is an inexpensive stone used for **cabochons** and beads. Green Zoisite and **Ruby Zoisite** are also used as cabochons and beads, and are popular material for ornamental figures such as animal carvings.

**Tazanite** is **heat treated** to achieve the blue color. The other forms of Zoisite are naturally colored and usually not enhanced

## Sources

The only source of Tanzanite is in the Merelani Hills of Arusha, Tanzania. Pink Thulite comes from Norway, Australia, and the U.S. (North Carolina). Green Zoisite and **Ruby Zoisite** come from Longido, Tanzania.



For More information see [Minedat.org](http://Minedat.org)