



# CRYSTALS AND CABS

## Newsletter of the Capital Mineral Club

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January 2016

Volume 16 Issue 5

### Capital Mineral Club News

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The Capital Mineral Club membership meeting will be on Saturday, **January 9th at 2:00 PM** at The Salvation Army Building, Concord, NH.

This month speaker will be **Jeff Morrison** on the **Havey Mine** which he owns and is actively mining.

Mineral of the month: Members should display tourmalines if they have them.

**Remember the will not be a February Meeting.**

**This Months Refreshments will be provided by Pam Jackson.**

**Welcome New Members**  
No new members this month.

**2016 Club Dues are Due, please send your membership renewals to Steffen Hermanns and make check payable to Capital Mineral Club, Dues are \$10.00 per member.**

**Editors Note:**  
The **deadline** to get info to me for publication will be the **3<sup>rd</sup> Saturday** of every month

- My e-mail address:  
[pfcram@comcast.net](mailto:pfcram@comcast.net)
- CMC Website:  
[www.capitalmineralclub.org](http://www.capitalmineralclub.org)
- Website designed and maintained by:  
Peter Cram & Steffen Hermanns
- If submitting material to the newsletter the editor requests that it be sent in Microsoft Word format. This will help in getting the newsletter together.

#### Mineral Clubs - Meeting Dates

- Saco Valley Gem and Mineral Club:** 3<sup>rd</sup> Tuesday of each month at the Tin Mt. Conservation Center, Albany, NH – 7:00 PM  
[www.sacovalleygmc.com](http://www.sacovalleygmc.com)
- Keene:** 1<sup>st</sup> Saturday of each month at Keene State College, Science Bldg. Room SCIC 126, Keene, NH – 7:00 PM [keenemineralclub.50webs.com](http://keenemineralclub.50webs.com)
- North Shore (MA):** 3<sup>rd</sup> Friday of each month, Hamilton Wenham Community House, 284 Bay Rd, South Hamilton, MA – 7:45 PM
- Boston Mineral Club:** 1<sup>st</sup> Tuesday of each month, Harvard University Geological Lecture Hall, 24 Oxford St., Cambridge, MA – 7:30 PM [www.bostonmineralclub.org](http://www.bostonmineralclub.org)
- Southeastern NH Mineral Club:** 2<sup>nd</sup> Wednesday of each month, St John's Methodist Church, 28 Cataract Ave., Dover, NH – 7:00 PM [senhmineralclub.org](http://senhmineralclub.org)
- Presidential Gem and Mineral Society:** 2<sup>nd</sup> Friday of month at 7: 00 P.M. North Country Education Services Center; 300 Gorham Hill; Gorham, NH



These are no minutes of the December 5th.

This month was the Capital Mineral Clubs Annual Holiday Party and Collecting Competition. There were about 45 people who attended this fabulous event.

**Meeting Minutes:** Tabled until the January meeting.

**Treasurer's report:** Tabled until the January meeting.

**Old Business:** None

**New Business:** Tabled until the January meeting.

**New Memberships:**

**Door Prizes:**

### Field Collecting and Lapidary Award Winners 2015

<b>Best NH</b>	Peter Cram	NH Gold, NH
<b>Best NE</b>	J. Herndon	Microline, NH
<b>Best Outside NE</b>	Rodney Pingree	Calcite Concretion, VT
	Don Dalliare	Smokey Quartz, CO
	Rodney Pingree	Topaz, Utah
<b>Best of Show</b>	Peter Cram	NH Gold, NH
<b>Best Faceted Small</b>	Jim Reynolds	Tourmaline
<b>Best Faceted Medium</b>	Peter Cram	Smokey Quartz
<b>Best Faceted Large</b>	Larry Welker	Golden Beryl
<b>Best of Show Lapidary</b>	Larry Welker	Golden Beryl

# January Program

The Havey Mine

Presented by: Jeff Morrison

The Havey mine is located in Poland, Androscoggin County, Maine. It was opened approximately in 1900 and mined for feldspar intermittently until the property was taken over by A. R. Berry in 1906 who operated it for feldspar and gem minerals. Considerable amounts of gem tourmaline were found by Mr. Berry. The mine consisted of two pits with the westerly one named the Havey and the other the Berry hence the name Berry-Havey seen in many publications. At some point the two existing pits were split and now under separate ownership.

The mine went through various ownerships through the years and when Terry Szenics put the mine up for sale it was purchased by Jeff.



*Above: View of the mine from new road*



*Left:  
Elbaite  
matrix  
specimen*

Jeff Morrison was not a mineral collector when he bought the Havey and claims he still is not, but he does keep a suite of minerals from the mine. One advantage Jeff had when he purchased the mine was his profession. He is an excavating contractor so he has all the equipment needed to mine.

Shortly after purchasing the mine, Jeff went to the Maine Pegmatite Workshop to learn about pegmatites. Since then he has been very successful in mining extraordinary elbaite specimens.

*Right: Havey elbaite  
faceted stones by Cross  
Jewelers*



## Mineral of the month - The Tourmaline group

The species names that mineral collectors have used in the past are no longer accurate because advanced techniques have resulted in identifying new mineral species. Tourmaline is no longer a simple mineral but a large supergroup of minerals with no less than 24 members described in the 2014 edition of *Fleischer's Glossary of Mineral Species*. The Glossary also provides for 10+ expected members of the group. Identifying the exact species is often impossible without a mineral laboratory with equipment costing in the seven figure range.

This fact makes it very important to label your minerals with locality information as specific as possible. Many locations have been extensively studied so your specimen from a particular locality can be closely approximated to the exact species. To make matters worse it is possible to have more than one species in a single crystal. For example: an elbaite crystal with a foitite termination.

For collectors that admire the beauty of a fine mineral specimen, it is acceptable to simply label the specimen as "tourmaline group". Below is a list of the more common tourmaline

The tourmaline group formulas are complicated and have often led some to call it a "garbage can" mineral, especially before various members of the group were isolated. It is clear that boron (B), aluminum (Al), silicon (S) and oxygen (O) are needed to form a tourmaline species.

Note: the small squares represent a vacant site in the structure.

Fluor-Uvite	$\text{CaMg}_3(\text{Al}_5\text{Mg})(\text{Si}_6\text{O}_{18}(\text{BO}_3)_3\text{F})$
Uvite	$\text{CaMg}_3(\text{Al}_5\text{Mg})(\text{Si}_6\text{O}_{18}(\text{BO}_3)_3\text{OH})$
Fluor-liddicoatite	$\text{Ca}(\text{Li}_3\text{Al})\text{Al}_6(\text{Si}_6\text{O}_{18})(\text{BO}_3)_3(\text{OH})_3\text{F}$
Dravite	$\text{NaMg}_3\text{Al}_6(\text{Si}_6\text{O}_{18})(\text{BO}_3)_3(\text{OH})_3\text{OH}$
Schorl	$\text{Na}_3^{2+}\text{Al}_6(\text{Si}_6\text{O}_{18})(\text{BO}_3)_3\text{OH}$
Elbaite	$\text{Na}(\text{Al}_{1.5}\text{Li}_{1.5})\text{Al}_6(\text{Si}_6\text{O}_{18})(\text{BO}_3)_3(\text{OH})_3\text{OH}$
Fluor-buergerite	$\text{NaFe}_3^{3+}\text{Al}_6(\text{Si}_6\text{O}_{18})(\text{BO}_3)_3\text{O}_3\text{F}$
Foitite	$(\text{Fe}_2^{2+}\text{Al})\text{Al}_6(\text{Si}_6\text{O}_{18})(\text{BO}_3)_3(\text{OH})_3\text{OH}$
Rossmannite	$(\text{LiAl}_2)\text{Al}_6(\text{Si}_6\text{O}_{18})(\text{BO}_3)_3\text{OH}$



*Left: Schorl<sup>□</sup> from the Rice mine, North Groton, NH*

*Right: Elbaite from the Keith quarry Auburn, Maine*

*Don Dallaire specimens and photos.*





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Keep on Rockin' in the Free World

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WE'RE ON THE WEB

WWW.CAPITALMINERALCLUB.ORG

**2016 Club Dues are Due, please send your membership renewals to Steffen Hermanns and make check payable to Capital Mineral Club,**

Capital Mineral Club Meetings & Events	Gem & Mineral Shows
<p><b>January 9, 2016</b>            Club Meeting: <b>2:00PM</b>            Speaker: TBD            Refreshments Pam Jackson</p>	<p><b>February 13-14, 2016, Albany, NY.</b>            New York Museum Gem &amp; Mineral Show            New York State Museum, Albany, NY.</p>
<p><b>February 6, 2016</b>  <b>No Meeting Scheduled</b></p>	<p><b>March 19, 2016: Middleboro, MA.</b>            Special Club Auction, Mitchell Memorial Club,            29 Elm Street, Middleboro, MA.</p>
<p><b>March 5, 2016</b>            Club Meeting: <b>2:00PM</b>            Speaker: TBD            Refreshments: Karla Ruth &amp; Nick Hadshi</p>	<p><b>April 2-3, 2016 : Orange, CT.</b>            43rd Annual Mineral, Gem, Jewelry &amp; fossil Show, Mew Haven Mineral Club, Amity Regional Middle School, Sheffield Rd, Orange, CT.</p>
<p><b>April 2, 2016</b>            Club Meeting: <b>2:00PM</b>            Speaker: TBD            Refreshments: Natalie Undercofler</p>	<p><b>April 16-17, 2016: Haldey, MA.</b>            Western Mass. Mineral, Jewelry &amp; Fossil Show, Connecticut Valley Mineral Club. Hadley Farms Meeting House, 41 Russell St. Hadley MA.</p>
<p><b>May 7, 2016</b>            Club Meeting: <b>2:00PM</b>            Speaker: TBD            Refreshments: The Howds</p>	<p><b>June 26-27, 2016: Gilsum NH.</b>            The 52nd annual Gilsum Rock Swap &amp; Mineral Show will be held June 25-26, 2016 RAIN OR SHINE!            More than 65 dealers and swappers with gems, jewelry and minerals available for sale or trade.</p>