



Colorado Mineral Society

Mineral Minutes



Volume 79, Issue 2

February 2015

President's Message

By Bruce G. Sales

Greetings to everyone, the National Western Stock Show has come and gone and left its weather behind. I hope that everyone has stayed warm and dry. I want to thank all of the members who helped set up and tear down the hall for the last Colorado Mineral Society (CMS) meeting, so that we could seat everyone. Michelle Rahm gave an entertaining and informative presentation last month on the "Gems of Madagascar", both the minerals and the children.

At the February 6, 2015 general meeting, Craig Hazelton will be our speaker with a talk entitled "Modern Jade Culture"; he also will have an accompanying display case. The other display case is reserved for the Junior Rockhounds, they will be displaying the skills that they learned at the January meeting (see Page 5 for details).

Pat Tucci will be the speaker for the March 6th meeting with a talk on the minerals and fossils of Morocco. Mark Jacobson will be the speaker for the April 3rd meeting, with a talk about the History and Mineralogy of the Pikes Peak Batholith. **The April 3rd meeting will be held at the Clements Center, at 1580 Yarrow Street in Lakewood.**

Hope to see you next Friday, 7:30 pm at St. Paul's Episcopal Church, 10th and Garrison Street in Lakewood.

February 6th Presentation Modern Jade Culture

by Craig Hazelton

Jade Culture: the passion, collections, industry and of people involving jade as a part of their lives. Jade culture has been important in China for over 22,000 years, and has also been a part of culture in North and Central America for at least 5,000 years. Today a Modern Jade Culture is alive and growing in many countries with active mining, commerce, and flourishing carving communities.



Three thousand year-old Olmec jadeite mask uncovered in 2012 under the "Pyramid of the Sun" in Teotihuacan, Mexico

Modern Jade Culture is the current period in a long era human involvement with the gemstone. Jade is the toughest of all stones, a natural "steel" created by a tough micro-structure, which during paleolithic times was ground to make tools far superior in performance and durability than knapped chalcedony tools formed by chipping. However, due to the limited occurrence of jade and the difficulty of fabrication, tools made from jade are only found in certain regions of the world. Some of these tools became important objects of ceremonial and religious value. In China, there is an estimated 10 million jade artifacts fabricated during 1,000's of years of active jade culture. Historical ornamental jade objects and tools are also found in

Continued on Page 3

INSIDE THIS ISSUE

- 1 President's Message
- 1 February Presentation – Modern Jade Culture
- 5 Club News –Junior Rockhounds
- 5 Raffle News and New Members
- 7 2015 CMS Educational Opportunities
- 10 Meeting Notes

COLORADO MINERAL SOCIETY OFFICERS

2015

President: Bruce G. Sales

First VP-Programs: Gary Rowe

Second VP-Education: Debbie Kalschauer

Secretary: Sandra Gonzales

Treasurer: Eva Siemonsma

Appointed Board Members - Committee Chairpersons

Annual Auction: Howie Houk

Door Prizes-Guests: Paul and Cindy Hatfield

Library: Kevin Atwater

Exhibits: Harold Taylor, Leslie Sebol, Dan Wray

Membership: Cara Reynolds

Field Trip Leader: Gary Rowe

Field Trip Leader Co-Chair: **OPEN**

Nominations: Daryl Lamb

Grab Bags: Dale Block

Editor: Amber Brenzikofer

Historian: Amber Brenzikofer

Scrapbook: Jennifer Knies

Youth Activities: Lewis Reynolds

Hospitality: Star Edwards

Donations: Debbie Kalschauer

Web Master: Julio Edwards

coloradomineralsociety@comcast.net



Representatives (Board Members)

Denver Council Rep: Daryl Lamb

Denver Show Rep: Dale Gann

COLORADO MINERAL SOCIETY (CMS) was founded in 1936 by a group of distinguished individuals within the mineralogical field. The organization was incorporated as a non-profit, educational organization in 1948. The Society is affiliated with the Colorado Federation of Gem and Mineral Societies, Rocky Mountain Federation of Mineralogical Societies, and the American Federation of Mineralogical Societies, a founding member of each group.

PURPOSE: To promote the study of minerals and other geologic materials, to encourage mineral collecting as a hobby and to conduct public meetings, lectures, and field trips, and to engage in all activities which relate to said purposes of the organization.

MEETINGS: General membership meetings start at 7:30 PM on the first Friday of each month, October through May, at St. Paul's Episcopal Church, at 10th and Garrison in Lakewood, CO. Displays are set up by members about one-half hour before meetings. Specimens may be available for sale and trade.

VISITORS and GUESTS are welcome.

BOARD MEETINGS: The board members meet once a month to complete the executive business and affairs of the Society. Meetings will start at 7:00 PM usually the third Tuesday of each month. Additional meeting times, if necessary, may be called by the President or any three members of the board and will be announced at the general or board meetings.

MEMBERSHIP: Open to all persons who agree to abide by Society rules and rules of the Federations. Annual fees: \$16.00 for a Family or Newsletter Membership, \$14.00 for a Single Membership, \$12.00 for a Senior Membership (single or family over 65), and \$12.00 for junior members under the age of 18 who are not included in a family. Name badges are available for a one-time fee of \$7.50.

ANNUAL EVENTS: Yearly activities include a silent auction of minerals, fossils, gems, jewelry, equipment and other items related to our interests; participation in the Colorado Contin-tail, the largest mineral swap show in Colorado; participation as a member of the Greater Denver Area Gem and Mineral Council in sponsoring the largest gem and mineral show in Colorado; and the Founder's Day celebration.

FIELD TRIPS: The Society sponsors several field trips from Spring through Fall for the purpose of collecting minerals, crystals, and fossils. These trips are one-day, two-day, and occasionally several-day adventures. A field trip guide is published each year in May.

NEWSLETTER GUIDELINES: CMS has a proud history of promoting the education and pure enjoyment of the mineralogical world. At the very heart of its existence are the many volunteers and contributors who spend their time and efforts in direct support of the club's mission. The CMS official newsletter **MINERAL MINUTES** is published monthly during the active meeting season (October through May) and a summer edition, and is the primary way the club's activities and mission are communicated to its members and prospective members. On that basis, the Board of Directors would like to offer the following content guidelines for CMS newsletter contributions:

- Formal announcements concerning club business and/or membership
- Information around mineral-related education opportunities or fundraising activities
- Stories or history that concentrate on the edifying aspects of mineral collection and education
- Sharing of personal mineral-related experience from field trips or other related adventures serving an educational purpose
- Announcements of volunteer/leadership opportunities for the club or club representation
- Worthy news events or discoveries related to mineralogy or geology that align to club's core interests
- Appropriate announcements regarding mineral shows, one-time mineral related events, mineral auctions, sale of private collections and/or equipment, etc.
- Information around relevant donations and/or gifts made available to the club or club members

Please note that the editor may correct spelling, syntax, or content to conserve space and is also entitled to bring contributions in compliance with newsletter guidelines

Any material herein may be reproduced by any club if proper credit is given. Material from many sources is used in the Mineral Minutes. While it is believed that these items are accurate, neither the editor nor CMS assumes any liability for their use. Advertiser's claims are their own, and their products are not warranted by CMS.

Deadline for publication is the 24th of the month prior to publication. All correspondence to Mineral Minutes should be sent to Editor, P.O. Box 280755, Lakewood, Colorado 80228-0755 or by email to:

editor.coloradomineralsociety@gmail.com

Modern Jade Culture (Continued)

New Zealand, Switzerland, and British Columbia. Interestingly, jade artifacts have not been found in Wyoming, which is our local source of jade.



"Dragon Rising" by Donn Salt of New Zealand carved in the finest "Inanga" nephrite jade from New Zealand (5" across)

There are two stones referred to as jade; nephrite, a rock, and jadeite, a mineral. Both are formed deep in the earth's crust under high temperature and pressure. They are both sought after by the Modern Jade Culture and possess the three important qualities of a gem: beauty, durability and rarity. Values can vary from an imperial jadeite beaded necklace selling for millions, to jade worth only a few dollars per pound. It has been said that "gold has value and jade is priceless", this is certainly true in China today. When Cortez was conquering the Aztecs and pilfering their gold and silver, Moctezuma was reported to have said "thank heaven they do not know about chalchihuites (jadeite)". Nephrite jade is highly sought after by the carvers of the modern jade culture, with Asian carvers seeking green or white colors and Western carver seeking translucent high quality material of most any of the many colors that occur in jade.

Jade has been mined around the world in China, Burma, Guatemala, California, Wyoming, British Columbia, New Zealand, Siberia, and Australia. There are also many minor deposits around the US, and there is even a possible occurrence in Colorado. Wyoming was the site of a great jade rush in the mid 1940's spurred by an article in Popular Science titled "Green Gold". Wyoming nephrite jade is still highly sought after by western jade carvers because of its high quality and decent availability as compared to the scarcity of jade from other locations where the Asian industry has monopolized the mining industry. Chinese jade mining prospectors were seen in Wyoming late this past Fall.

Jade culture is most fully expressed and easily seen in the art form of carving. Carving is well developed in Asian culture and ancient themes and patterns are still what are mostly carved today. Non-Asian jade carving has developed new themes that are inspired by traditional design, and embrace new artistic inspiration from many sources resulting in a powerful style that the Asian carvers are now seeking. This is a new chapter in a significant worldwide cross-pollination of techniques and design that is creating new styles of jade art that may have begun 25,000 years ago. Jade jewelry and art is a very large business in China where there are large factories creating thousands of pieces. This



A large block of high quality "apple green" nephrite jade from Wyoming

industry has an impressive ability for high volume jade production, but they are starving for new designs. Chinese jewelry designers are spending time in the West studying jewelry design and markets to create successful business ventures. The Asian carving industry also has been hiring Western jade artists to help change and modernize their carving techniques and designs. Eastern jade sculptors bring a rich history of design and including deep symbolism and sacred inscriptions, as well time tested manufacturing methods. Western sculptors bring fresh new designs and many innovative carving techniques and equipment. The potential of the interaction

Continued on Page 4

Modern Jade Culture (Continued)



Yukon Oval Twist, made from nephrite jade from the Yukon Territories, Canada

to develop new art and grow the jade industry is very exciting and will be incredible to see over the years to come. Last November I attended the amazing 2014 World Jade Symposium in Vancouver, British Columbia where jade artists, miners, designers, and jade aficionados from around the world gathered to celebrate modern jade culture. The symposium talks covered historical and present jade art, mining, cultural aspects, mineral analysis, and locations including one talk devoted entirely to Wyoming jade. The Symposium also included a jade carving competition with both a sculpture and jewelry category. “Yukon Twisted Oval” was my entry in the jewelry category. It is made from nephrite jade mined in the Yukon Territories by Roger Kritchbaum of Gold Hill, Colorado. Attending and participating was one of the most amazing experiences of my life, and I plan on attending the next symposium in 2016.

Today there are many ways to become involved in Modern Jade Culture. There are several gatherings including the upcoming Friends of Jade Dinner in Tucson on February 7th. This is a fun gathering of an international group of many players in Modern Jade Culture. Next, the 24th annual Big Sur Jade

Festival will happen at Jade Cove on the Big Sur coast of California during the second weekend of October. This three-day festival features some of the major jade carvers, jade lovers, miners, and a host of vendors selling some of the best jade and artwork available. This is a great time to explore this legendary jade area and meet many of the people entrenched in jade. A week long carving workshop given by some of the best jade carvers, such as Donn Salt or Matt Glasby, is held after the festival. This workshop was created by the festival organizers over 12 years ago, and has been a significant incubator of Modern Jade Culture in North America.

Please join me at the next CMS meeting to hear my presentation on the details of Modern Jade Culture. The talk will cover mineralogy, mining, history, techniques used for carving, and many stories of the people in the Modern Jade Culture. I will also bring some examples of fine jade and artwork from around the world. Hope to see you there; it's quite a story.



Craig Hazelton visiting the “Nephripod” in the garden of the Oakland Museum, CA, a 9000-pound nephrite jade boulder that was lifted from the ocean floor off the coast of Big Sur by an amateur group of jade divers in 1971, led by the late Don Wobber, the mining operation was a legendary 6 month adventure

© Craig Hazelton, 1/15/15

CLUB NEWS

Junior Rockhounds CMS Showcase

by Kuyper Reynolds

We are calling all Jr. Rockhounds to band together and create a showcase for the CMS meeting on February 6th. This case will be themed with Minecraft. It will focus on the suspense of playing Minecraft, especially the mining part, and how that is very similar to collecting in the field.

How you can participate?

We will be using Legos to portray scenes from Minecraft. And in the scenes we will showcase minerals that can be collected on CMS field trips. If you do not have a specimen from a CMS field trip, don't worry. Just bring a specimen that you received from a CMS meeting. Please include a label for it that is typed and make it readable and informative (remember January's meeting) and also label your creation with your name as well as a short explanation of what your creation is about. So when you are done, you should have a creation(s) with minerals displayed in it and two labels, one telling about your creation(s) and name and the other(s) for your mineral specimen(s). To make a Minecraft figure use this picture as a reference.



Your creation should be under 7 inches tall and between 6 inches x 6 inches and 8 inches x 12 inches. You may bring up to 3 creations and we will use as many as we can fit nicely into the case. If you are struggling with the head and face, I can provide one for your figure. Even if you don't have Legos, bring your specimen(s) and we will have extra Lego creations for your use. Please be at the church at 7:10 to help set up the display. If you have any more questions, please contact the Junior Rockhounds Coordinator Lewis Reynolds who will forward your inquiry to Kuyper. Have fun!

CMS Junior Rockhounds Program February 2015 Meeting

Topic: Gold Panning & Prospecting

Overview: GOLD! Does the mention of the word make your spirit grow bold? Did you know that desire for this mineral is old? Do your fingers feel cold panning the creek for gold? Come to February's meeting to discuss gold, its role in Colorado history, and techniques for panning! This evening we welcome Junior Rockhound Kuyper Reynolds and CMS Member Don Bray who will share their historical knowledge and practical experience.

Following our discussion last month on *Showmanship*, this month the Junior Rockhounds have created a display case. The theme of this display is Minecraft, the computer game about breaking and placing blocks. As you view the case, consider the suspense of playing Minecraft, especially the mining part, and how that is very similar to collecting in the field. Various Minecraft scenes are embodied using Legos and adorned with mineral specimens collected during CMS field trips or received as door prizes or gifts at CMS meetings.

Parents are invited to attend the Junior Rockhounds Program with their children. We need at least one other parent, guardian, or member to help supervise each meeting. Although the youth do not need any supplies for this meeting, a pencil or pen and a notebook may be helpful for taking notes.

This topic motivates the *Gold Panning & Prospecting* badge in the AFMS Future Rockhounds of America program. More information about these *optional* activities outside of our meetings can be found below. Lewis will be available after the Junior Rockhounds meeting to explain the badge requirements and to answer any questions you may have about this program. (Also review our goals in the Junior Rockhounds Program in the CMS Newsletter for August 2013 which can be found at <http://www.coloradomineralsociety.org/newsletters/August2013.pdf> on pages 7-8.)

AFMS Future Rockhounds of America Badge Requirements (Optional):

http://www.amfed.org/fra/AFMS_FRA_Badge_Manual_Updated_2012.pdf

The *Gold Panning & Prospecting* badge is discussed on pages 144-151 of the manual.

Parents or guardians: please print the sign-off sheet on page 145 and check-off, sign, and date each accomplishment as it is completed. Submit the completed form to Lewis Reynolds to process the badge award.

January 2nd Raffle News

Thank you to those who donated these great specimens, it is fun to see the happy smiles when their number is called to be a winner!!!

January's tickets sold were \$144, with the retail value of \$190. These funds are spent on CMS education, the purchase of library materials, and the state science fair awards. The most popular specimen was the pyrite from Huansaca, Peru (\$42) donated by **Rocky Mtn. Gems and Minerals** and won by a very happy *Aaron Cross*. *Paul Knappe*'s ticket was drawn for the onyx sphere (\$34) and was donated by **GEOdyssey**. The aquamarine crystal (\$29) donated by **Natalie Briscoe** was won by *Pete Modreski*. *Sabra Hoerter* was all smiles when she won staurolite fairy crosses from Taos, NM (\$18) donated by **Richard Owens**. *Bill Hutchinson* claimed the Barite and smithsonite specimen from the Sherman Tunnel (\$11) donated from the **Judith Holmes Collection**. Last but not least, *Amber Brenzikofer*'s ticket won the azurite specimen (\$10) that was donated by **Marcus Lieberman**.

Thanks John Kleber and Lori Heckman for helping with the raffle.

Congratulations to all the lucky winners!!!!

Submitted by Eva Siemonsma, CMS Raffle Manager

Richard Owens

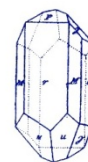
Marcus Lieberman

Natalie Briscoe

Judith Holmes Collection



GEOdyssey LLC
Minerals, Fossils, Jewelry



Zelda Bailey
Pat Tucci

P.O. Box 16339
Golden, CO 80402
www.geodyssey-rocks.com

Tel: (303) 279-5504
Cell: (303) 898-9674
pattucci@comcast.net

New CMS Members

First Listing

- Michael Zebrowski

Second Listing

- Bob Maiocco, Jack and Tyler
- Amy Shalz, Jack and Grace

Per CMS Bylaws, comments concerning new, first listing members should be formally submitted to the President.

JEWELRY GEM & MINERAL SHOW

FREE ADMISSION!



Sponsored by the

**DENVER GEM &
MINERAL GUILD**

February 27- March 1, 2015

JEFFERSON COUNTY FAIRGROUNDS

15200 W. 6th Ave. - (W 6th Ave. & Indiana) Golden



Lapidary Supplies
Crystals and Fossils
•
Unique Jewelry
•
Gem and Mineral Dealers



GEM, MINERAL AND FOSSIL EXHIBITS

GEM CUTTING DEMONSTRATIONS

GRAB BAG SALES- Proceeds applied to scholarship at Colorado School of Mines

2015 CMS Educational Opportunities

by Debbie Kalscheur and Gary Rowe

The CMS Board is pleased to offer four classes in the 2015 calendar year. These classes vary in cost and time commitment required. Below are detailed descriptions of each, member cost to participate, and timing of when they will be offered, if currently known. If you are not currently a member of CMS, please join prior to signing up for classes.

If you are interested in attending any of these classes, please contact Debbie Kalscheur at kalscheur2004@yahoo.com no later than February 15th or by signing up at the February 6th general meeting. Class seats will be filled on a first come-first served basis and payment is due by March 6th (next CMS general meeting).

Please note that class dates are subject to change pending confirmation of the classroom availability at CSM; the classes may also be rescheduled in the event of bad weather.

Details for each course are listed below.

Geology of the Front Range – Spring 2015 (11 lectures/4 all-day field trips)

The course is designed to help the student understand the geology of the Front Range—from the plate tectonics, to the surface processes, to oceans, to deep within the earth; from volcanoes and molten rock, to the crunching together of plates; and from the uplift of the mountains, to the grinding and sculpting of glaciations. Also included in this course is the interpretation of the rock record, the formation of pegmatites and precious metal deposits, and the mining of those deposits.



This class is taught by Ed Raines, a popular geology lecturer in the Denver area (see Ed's credentials on Page 9). This class is a great opportunity to get an introduction to the geology of the Front Range. The class will meet for lectures on Monday nights for 11 weeks from 6 to 9 pm at the Colorado School of Mines (CSM) Geology Museum in the classroom across from the Geology Museum entrance with a target start date of April 6, 2015. The class also includes four all-day field trips where we will observe the principles learned in the classroom played out in the field. Course handouts will be emailed to the participants.

Cost of course is \$150/person with CMS and the student contributing \$75 each. The class can accommodate 15 people, ages 13 and up. A minimum number will be required.

Mineral Identification Course Fall 2015 (10 lectures)

This course is a popular course that has been offered several times to CMS members in recent years. In this course, you will receive hands-on experience with mineral identification techniques along with gaining an understanding of basic Crystallography and the 6 core crystal systems. Participants will be issued microscopes and flats of minerals for use during the class. This course is designed to establish a working base of knowledge that students will be able to use in the field or at the shows to identify minerals and mineral associations. This is a great course for those who are fairly new to the mineral world or who just want to expand their skills in accurately identifying rocks and minerals. The course culminates in a test on the last day of course for purposes of measuring your confidence in what you have learned.

This class is also taught by Ed Raines. It is planned to be offered in Fall 2015, with a target start date in the last week of Sept. It meets for 10 weeks at the Colorado School of Mines (CSM) Geology Museum in the classroom across from the Geology Museum entrance. Course handouts will be emailed to participants. This course will meet on Monday or Wednesday nights and is subject to change.

Cost of course is \$150/person with CMS and the student contributing \$75 each. The class can accommodate 10 people (a couple can count as one person for this class), ages 13 and up.

Continued on Page 8

2015 CMS Educational Opportunities (Continued)

Two Outdoor Navigation Classes to be offered in April

The CMS Board is pleased to offer two courses on outdoor navigation skills. Both classes are based on participants having little or no knowledge of compasses and/or GPS units. We are looking for a location and dates in April, so they will be announced at the February meeting, sent out by email, and put on the CMS website.

The instructor for both courses is Margaret (Peggy) Ellis. Peggy used to work with the mapping division of USGS and taught orienteering courses at the USGS topographic map center at the Federal Center when those were still offered. She has her own business teaching these classes (Outdoor Navigation) and also teaches orienteering classes at REI and Bass Pro Shops. She provided the following descriptions of the two classes that will be offered.

Map and Compass Class (Date to be Determined)

Participants will learn compass components, how to take compass bearings, how to correct your compass for magnetic declination, how to triangulate your position and plot that on a topo map. You will also learn how to read symbology on a USGS topo map, recognize landforms, and calculate angle and percent of slope. This is a “hands on” class that will consist of a combination of classroom instruction and outdoor practice. USGS topo maps and informational materials will be provided to the participant to keep. Compasses will be available for loan but participants are welcome to bring their own compass.



Cost is \$10 per person and we can accommodate 15 people, ages 13 and up. We will need a minimum of 10 people to sign up to hold the class.

GPS Navigation Class (Date to be Determined)



Participants will learn how to properly setup a GPS, learn the importance of map datums and position formats, how to save a location and return to it by creating a waypoint, how to create tracks, and routes, and how to read and calculate coordinates. This is a “hands on” class and will consist of a combination of inside instruction and outdoor practice.

USGS topo maps and informational material will be provided for participants to keep. Having your own GPS unit is preferred but if you don't have one Peggy has a few GPS units available for loan. For those that have their own GPS unit we will need to know the make and model so Peggy can make sure she knows how it operates (according to Peggy, about 90% of the people who take her classes have a GPS unit manufactured by Garmin).

Cost is \$10 per person and we can accommodate 15 people, ages 13 and up. We will need a minimum of 10 people to sign up to hold the class.

CMS 75th Anniversary Items

CMS 75th anniversary items will be for sale at the February CMS meeting.



Patch \$2.50 Rocky Pin \$3.00
Mineral Bag \$.20 cents



Announcing an Amazing Mineral, Fossil and Book Sale!



1310 Maple Street, Golden, CO

**Saturday and Sunday,
April 25+26, 2015
9 A.M. - 4 P.M.**

Thousands of minerals, rocks, books,
fossils, maps, journals, etc.

Prices will vary by item or box.
Most prices will be reduced
throughout the event.

Information: 303-273-3815

2015 CMS Membership Dues Reminder

A friendly reminder that your annual membership dues are due for 2015. CMS memberships run from January 1st to December 31st. You can pay your dues in three ways:

1. Pay with cash or check at the general meetings the first Friday of each month. Look for the Membership Chairperson to obtain a receipt and membership card.
2. Send a check made out to "Colorado Mineral Society" or "CMS" to P.O. Box 280755, Lakewood, Colorado 80228-0755. Please do not send cash through the mail. Pick up your membership card at the next general meeting. Cards not picked up will be mailed to you.
3. Fill out a membership form and bring cash or check to a field trip to receive a temporary membership card.

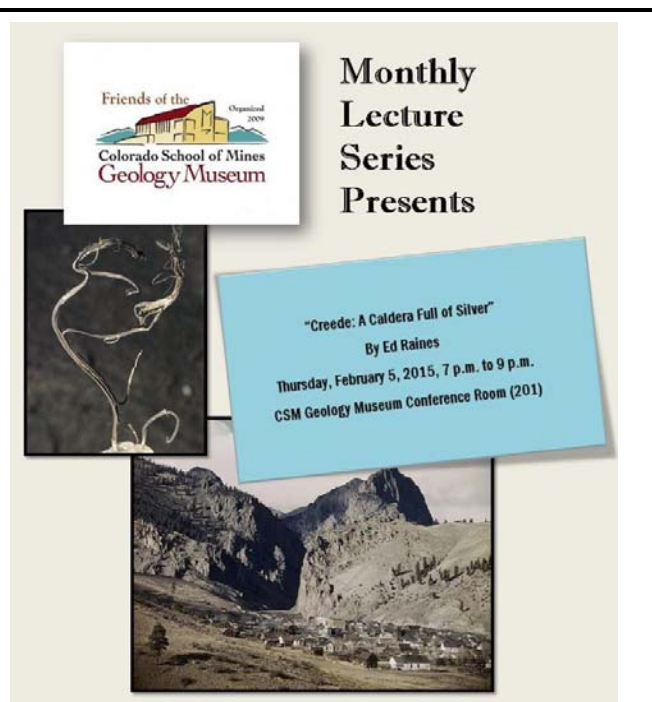
CMS Membership Fees:

Family: \$16 per year
Single: \$14 per year
Senior 65+ (single or family): \$12 per year
Junior (<12 years old): \$12 per year

Also, due to RMFMS insurance and liability purposes, we need to know the month and year of your children's birthdays, so please provide this information when you renew your membership. The children's information will not be published. A new membership form is located on the CMS website at www.coloradomineralsociety.com.

Remember you can receive color electronic and/or black and white hardcopies of Mineral Minutes. However, CMS is trying to be "green" and cut back on paper copies, so please indicate if it is OK to send you an electronic copy only of the newsletter. Also, make sure to give us your updated email address and street address so you can continue to get the newsletter and other important CMS updates.

If you ordered a name badge, they will be available at the general meetings to pick up. Alternative methods of delivery for name badges may be available if you cannot attend a general meeting. Contact Cara Reynolds or Amber Brenzikofer to coordinate.



"Creede: A Caldera Full of Silver", by Ed Raines, the Colorado School of Mines Geology Museum Collections Manager and current President of the Mining History Association.

- When: Thursday, February 5, 2015, 7 p.m. to 9 p.m. (munchies 6:30 p.m.)
- Where: CSM School of Mines Geology Museum conference room (201) - General Research Laboratory (GRL) building, 1310 Maple St., Golden
- No admissions fee or registration is required.

Ed Raines - the CSM Geology Museum's Collections Manager, President of the Mining History Association, and a foremost expert on Colorado mining history and mineralogy - will discuss one of Colorado's great silver mining districts in his lecture "Creede: A Caldera Full of Silver".

The Creede district has produced nearly 5 million tons of ore yielding over 84 million ounces (2,625 tons!) of silver, plus substantial amounts of lead, zinc, copper, and gold.

Information sources: Raines, E. 1992. "The Geology, Mineralogy, and History of Four Native Silver Localities in Colorado", in *Rocks & Minerals*, July/August 1992. Heldref Publications; Mining History Association, 20th Annual Conference, June 3-7, 2009, Creede, Colorado.

Photo credits: (Left center) Wire silver from the Bulldog Mine, Creede, Colorado; 4.5 x 2.6 x 0.25 cm, Rob Lavinsky, iRocks.com - CC-BY-SA-3.0. (Lower center) Town of Creede, Colorado; Andreas Feininger photo from 1942, public domain.

“May 2, 2015”

Please put this date on your calendar

WHY??

CMS will have its annual silent auction of mineral hobby items on May 2nd at the Holy Shepherd Lutheran Church located at 920 Kipling, 3 blocks north of 6th Avenue in Lakewood, from 11:00 A.M. to 3:00 P.M. Admission is free.

The auction features reasonably priced minerals, fossils, faceted stones, lapidary equipment, books, and jewelry to the general public. A unique aspect of this auction is the ability for visitors to view and bid on fluorescent minerals in a special ultraviolet powered Fluorescent Room! There are door prizes every half hour, and a special verbal auction at 1:00 P.M. of museum quality specimens donated by special dealers. There is abundant parking, refreshments, and easy handicap access without any stairs. As always, the club will have a few auction tables reserved for only children to bid on.

We need volunteers and a sign-up sheet will be available at the upcoming general meetings. We especially **need a volunteer for the fluorescent room**, so if you would like to show off your ultraviolet light skills, please volunteer.

MORE TO COME NEXT MONTH.....

Submitted by Howie Houk

CMS General Meeting Notes for January 2, 2014

General Announcements

Bruce Sales - Colorado Mining Association Foundation asked CMS if they were interested in putting up a case to display minerals. Bruce asked for volunteers.

Debra Kalscheur - Education Chair announced 3 potential programs that will be offered for 2015:

1. Mineral Identification, in the Fall, 10 classes
2. Geology of the Front Range – in the Spring, 4 all day field trips and 11 sessions
3. Navigation – Map and compass reading and/or GPS

Cara Reynolds- 2015 Membership Renewals are due. New memberships announced:

254 Primary - 403 total members

Amber Brenzikofer- Announced that she is getting proposals for club T-shirts and will have a sign-up sheet for people to purchase T-shirts once the product is decided.

Gary Rowe- Field Trip Guide in Progress

Eva Siemonsma - Fiscal report was presented to the board is available to review

Guest Speaker: Michelle Rahm - The Gems of Madagascar

Door Prizes – Geodes donated by Paul and Cindy Hatfield:

Viola Padilla	Mark Leavitt
James Knoll	Paul Knappe
Laura Wray	Karen Heckman
John Powell	Christine Taylor
Zelda Bailey	June Dianich
Bob Burroughs	Rob Deschombault
Boyd Cook	Amber Brenzikofer
Mike Loeffler	

January Treasurer Report:

CMS Income 10/1/14-12/31/14	\$1,508.16
CMS Expenses 10/1/14-12/31/14	\$2,198.72
Net Diff:	(\$690.56)
See treasurers detail at the next meeting.	

Submitted by Sandra Gonzales

CMS Board Meeting Notes for January 20, 2015

Attendance: Bruce Sales, Sandra Gonzales, Leslie Osgood, Gary Rowe, Amber Brenzikofer, Eva Siemonsma, Cara Reynolds, Howie Houk

OLD BUSINESS:

Display Committee: The board has approved up to \$200 for the cloth and supplies needed to make the display cases look good.

- Leslie provided options, she is still pricing materials and will present at the next board meeting

Confirmed Speakers for Meetings:

- February: Craig Hazelton - Modern Jade Culture (Jr Rockhounds will be putting together a display - Lego Minecraft)
- March Pat Tucci - Morocco Minerals and Fossils
- April: Mark Jacobson - History & Mineralogy of Pikes Peak Batholith

Robert Barry, Chair of the Denver Show Committee cancelled for the January meeting, but will present a 15 minute presentation at the February meeting

Raffle Monies - Education has to be established for 2015

- Options 1. Mineral Identification Class - Fall September 2015 – 10 people/units - \$150/person, CMS will pick up 50%, Board approved to offer to CMS members
- Option 2. Front Range Geology by Ed Raines - in April (1st week) 2015 - 4 full day trips up to 15 people - \$150 per person, CMS will pick up 50%, Board approved to offer to CMS members
- Option 3. Topographical Maps /GPS - Basic Tools – Gary provided description. 15 people - \$10/person, Board approved to offer to CMS members

Many members have requested CMS T-shirts, bids will be taken for the board to approve.

- Eva presented preliminary pricing, Amber to create order form to distribute at February meeting

Howie Houk took over for Rich Nelson for the May CMS Auction and had several questions for the board such as budgets, process, and advertising

- The board answered all the questions that were asked

CMS vests have been requested by CMS members. Eva will get more information before presenting to members

Messages in Stone - US Geological Survey, Opportunity to purchase Messages in Stone (regular price 19.95 + tax) for \$13 including tax.

- Offered to members as a pre-paid order in January newsletter. No member orders received. Motion to buy 9 additional copies for Science Fair awards - 2nd Motion, all approved. Eva to purchase Science Fair copies

NEW BUSINESS:

Bruce Sales: Reviewed email inquiries with the Board

Amber Brenzikofer – January 28th newsletter deadline

Gary Rowe - working on Field trips

Cara Reynolds - Announced new member

- There was a motion to increase the price of the name badge to \$7.50 effective immediately - We are currently losing money on each badge

Howie Hauk will develop an auction flyer for the CMS auction

Eva – provided Treasure's report, 990 N form filed for 2014

April Meeting will be at Clements Center and a check to pay for the space was mailed out, church not available in April

Motion to Adjourn

Next CMS Board meeting is February 17, 2015

Submitted by Sandra Gonzales



Colorado Mineral Society
PO Box 280755
Lakewood, CO 80228

FIRST CLASS MAIL



UPCOMING MEETINGS

Regular CMS Meeting - March

Date: March 6, 2015 Time: 7:30pm

Place: St. Paul's Church, Lakewood

Speaker will be Pat Tucci "Morocco Mineral and Fossil Tour"

Regular CMS Meeting - April

Date: April 3, 2015 Time: 7:30pm

Place: Clements Center, Lakewood

If the Metro Denver area declares the roads on accident alert during a snowfall on meeting night, consider the CMS general meeting canceled.

Rocky Mountain Federation News

The Rocky Mountain Federation of Mineralogical Societies (RMFMS) is made up of 78 clubs representing 13 Western states. The Rocky Mountain Federation News is published monthly and is located at www.rmfmts.org.



A.F.M.S Newsletter

The American Federation of Mineralogical Societies (A.F.M.S) serves seven regional federations, including RMFMS. The A.F.M.S Newsletter is published monthly and is located at <http://www.amfed.org/news/default.htm>



<http://www.coloradomineralsociety.org>