



# Colorado Mineral Society

# Mineral Minutes



Volume 78, Issue 6

August 2014 (Summer Edition)

## Important Updates!

### St. Peter's Dome Field Trip Cancelled for August 23<sup>rd</sup>

The St. Peter's Dome field trip scheduled for August 23<sup>rd</sup> has been canceled, but Gary Rowe may try to reschedule it sometime in October, weather permitting. If it is rescheduled, look for information in the October newsletter and on the club website.

### Upcoming Deadlines

This year, the **Denver Gem and Mineral Show** plans to have non-competitive displays called "Show Your Best Agate". Entry forms are due Monday, **August 25<sup>th</sup>** and a copy of the form can be found on Page 8.

The deadline for advanced registration for the **Ouray-Silverton San Juan Mountains Mineral Symposium** is Monday, **August 25<sup>th</sup>**! You can still register on-site at the Ouray Elks Lodge on Sept. 5<sup>th</sup> or 6<sup>th</sup>, but you will not be able to reserve a place at the banquet or on the field trips. More info on Page 11.

### Founder's Day Picnic August 30<sup>th</sup>

Plan to attend the Colorado Mineral Society (CMS) Founder's Day Picnic on Saturday, August 30<sup>th</sup> from noon to ~4:30pm. We will start setting up at 11:00am if you want to come early to help set up. Additional information for the picnic can be found on Page 3.

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## President's Message

by **Bruce G. Sales**

Hello everyone,

I hope that everyone has had a great collecting season. Summer is here and the temperature is rising. I have heard that some very good minerals were found on various field trips so far, I hope to see these fine specimens and other great finds at the Founder's Day Picnic.

I want to compliment the membership of the Colorado Mineral Society on their public conduct on field trips, I have heard about members who selflessly helped people who had fallen when collecting, helped change tires, or just opened a pocket of crystals and let everyone collect the pocket. The Colorado State Lands Board was impressed with our conduct at the Stoneham barite site. CMS may be allowed to collect there in the future.

Now that we have concluded our successful field trips this season, pick out your best specimens that were collected on a CMS field trip in 2014 and bring them to the Founder's Day Picnic. You can enter them in the judging contest and the 3 best specimens along with 5 to 7 runner-up specimens will be entered in the CMS Prospector's Case at the Denver Gem and Mineral Show in September. The CMS Prospector's Case has won first place in the Prospector's Case competition for the past three years. We want to continue the tradition. In addition, bring your wonderful agate specimens from your personal collection, which may be included in the CMS club table display case at the Denver Show.

As always this society operates on the labor of its volunteers; I wish to thank everyone who volunteer's their time to make everything happen. We will have sign-up sheets at the Founder's Day Picnic for the volunteers that will be needed at the September Denver Gem and Mineral Show.

The first regular monthly meeting of CMS will be October 3, 2014 at St Paul's Episcopal Church, 7:30pm, 9200 W. 10<sup>th</sup> Avenue, Lakewood, Colorado 80215. I hope to see all of you there.

## COLORADO MINERAL SOCIETY OFFICERS 2014

President: Bruce G. Sales  
First VP-Programs: Gary Rowe  
Second VP-Education: Debbie Kalscheur  
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 Committee: Harold Taylor, Leslie Sebol, Dan Wray  
Membership: Cara Reynolds  
Field Trip Leader: Gary Rowe  
Nominations: Daryl Lamb  
Grab Bags: Dale Block  
Editor: Amber Brenzikofer  
Historian: Amber Brenzikofer  
Youth Activities: Lewis Reynolds  
Hospitality: Star Edwards  
Donations: Debbie Kalscheur  
Web Master: Julio Edwards  
[coloradomineralsociety@comcast.net](mailto:coloradomineralsociety@comcast.net)



### Representatives (Board Members)

Denver Council Rep: Daryl Lamb  
Denver Show Rep: Bill Jones

**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 \$5.00.

**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 dinner.

**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

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Deadline for publication is the 24th of the month prior to publication. 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](mailto:editor.coloradomineralsociety@gmail.com)

# 2014 Founder's Day Picnic

**Date:** Saturday, August 30th    **Time:** Noon to ~ 4:30 pm

**Leaders:** CMS Board, Exhibits Committee, and CMS Field Trip Coordinator

**Purpose:**

- (1) Have fun and show off finds from this year's field trips
- (2) Select specimens for the CMS Prospector's Case at the Denver Show
- (3) Solicit agate specimens for the CMS Club Table Case at the Denver Show
- (4) Select specimens for the CMS exhibit at the Wheat Ridge Recreation Center

**Place and Time:** Fellowship Hall at St Paul's Episcopal Church (our regular meeting location) at 10<sup>th</sup> and Garrison in Lakewood.

**What to bring (food):** All attendees should bring a dish for sharing (appetizer, hamburger or hot dog buns, salad, side dish, or dessert) and whatever meat (hot dogs, brats, hamburgers, steak etc) they wish to grill. We will have a couple of the church's barbecues fired up and ready to go and the hospitality committee will provide drinks and condiments.



**What to bring (mineral specimens):** We will have a number of tables and our two display cases set up and encourage all members to bring the best specimens they collected on a 2014 CMS field trips to the meeting. We'd also request that field trip leaders with knowledge of high-quality specimens please follow up with the folks who collected them to get them to the picnic so they can be included as potential Prospector's Case entries. We request that you bring labels identifying your specimens and the locality they are from.



We will have a vote and the top 8-10 vote getters will be selected for display in the CMS Prospector's Case entry. The Exhibit Committee Chairs will count the votes and will have the ability to nominate additional specimens for display in the case. We will collect the specimens, catalog them on a chain of custody form, and retain them for display in the case at the Denver Gem and Mineral

Show Sept 12-14. They will be returned at the October 3<sup>rd</sup> CMS general meeting unless they are also volunteered for the Wheat Ridge Rec Center display case to be set up in the fall.

**What to bring (agate specimens):** We are also collecting agate specimens for the CMS Club Table display case at the Denver Gem and Mineral Show. The theme of the Denver Show this year is agates so we are asking members willing to exhibit their specimens in our club case to bring them to the Founder's Day Picnic where we will select the best specimens and include them in the CMS display case. We will catalog all specimens on a chain of custody form and return them to their owners at the October 3<sup>rd</sup> CMS general meeting.

**What to bring (rock or mineral specimens or cut or faceted stones):** Last, we will also be soliciting specimens for a CMS exhibit that will be set up at the Wheat Ridge Recreation Center sometime this fall. There we will be setting up an exhibit in a 5' x 10' locked glass display case. The case is divided into four equal sections of 5' x 2.5' by 1.5' that have three shelves for display. The Exhibits Committee is planning on four differently-themed displays for each section including: (1) Info about CMS including history and activities; (2) CMS Field trips including photos and materials collected on CMS trips; (3) Minerals of Colorado by crystal class featuring Colorado minerals from each crystal class with the wood models made by Bruce Sales; and (4) display of polished petrified wood sections from the Harold Taylor collection. **We will be seeking specimens of Colorado rock, mineral, or lapidary materials (cut or polished slabs, cabs, or faceted stones) for the first, second, and third sections of the display** so if you think you have a good candidate for the display **please bring it to the picnic** so the Exhibits Committee can evaluate it. We don't have an exact date yet for the display but anticipate setting it up sometime in late October/early November and leaving it up for one to two months. Specimens submitted for the display will be cataloged on a chain of custody form and returned to their owners as soon as possible after the display is taken down.

**We will also have a mineral/geology quiz with prizes** for correct answers. The Founder's Day picnic is a good time to socialize with fellow CMS members, compare specimens, and determine bragging rights prior to the Denver Gem and Mineral Show.

*Submitted by Gary Rowe*

# CLUB NEWS

## New CMS Members

### First Listing

*Look for the first listing of new members in the October newsletter once a list of all the new members that signed up on the field trips is compiled by the membership chairperson.*

### Second Listing

- Mathew Barmer
- Alva Busch
- Robert Christy and Sheryl Kuelper
- Dan and Darlene Guild
- Brian " Bubba" Hayes
- Robert and Lisa Murphy
- Justin Murphy
- Lisa Olcese and Rodney Burdick
- Casey Pitt and Josh Blanton
- Wayne Pound and Katherine Goff
- Stella and David Schott
- Michael Schott
- Jacob Trujillo
- Ethan Vue

## CMS General Meeting Speakers for October

The next CMS General Meeting will be Friday, October 3, 2014. Philip Persson and Markus Raschke will speak on Colorado Rare-Earth Element (REE) minerals. More information will be included in the October newsletter.

## In Memory of Jerry Davidson (1954 – 2014)

Jerry Davidson became a member of CMS in 2010 and he was also a member of the Littleton Gem and Mineral Club and North Jeffco Gem and Mineral Club. He was diagnosed with cancer and last summer it began taking its toll on him. He succumbed to this cancer on May 13, 2014. Many rock hounds will miss his visits at the Gem and Mineral Shows, his rock experience conversations and his friendship. Jerry, "May you rest in peace".

*Submitted by Bill Jones*

## May Raffle News

May is an especially exciting month for the Raffle because we have two, one at the regular meeting and one at the annual auction. Both raffles were filled with some great specimens and your never wavering support of this endeavor allows the proceeds to be spent on CMS education, the purchase of library materials, and the state science fair awards. Thanks to Amber Brenzikofer and John Kleber for helping with the raffle both days.

**I want to especially thank John Kleber, Richard Owens, Rocky Mountain Gems & Minerals, Persson Rare Minerals, Mark Jacobson, Porter Minerals Int'l. and Crystallinn Int'l for their donations.**

The retail value of the May 2 raffle donations were \$112 bringing a total of \$245 into the raffle account. **John Kleber** donated the most popular item of the raffle, he faceted an 11mm amethyst (\$70), the lucky winner – *Gail Dubis*. **Richard Owens** donated the rest of the raffle items. **Thank you Dick**. The garnet crystal (\$54) was won by *Bob Heckman*; the hemimorphite specimen (\$40) was won by *Aaron Cross*; the vanadinite specimen (\$36) was won by *Jacob Trujillo*; the cavansite specimen (\$27) was won by *Brian Hayes*; last but not least, the selenite specimen (\$18) was won by the lucky two time winner *Robert Heckman*. *Thanks DJ Heckman for helping draw the winning raffle tickets.*

The retail value of the May 3 auction raffle donations were \$190 bringing a total of \$97 into the raffle account. **Rocky Mountain Gems & Minerals** donated the vanadinite specimen (\$37) that was won by *Donna Candelauro*; **Persson Rare Minerals** donated the thorogugnite specimen (\$15) that was won by *Ian Duncanson*; a two time winner *Donna Candelauro* won the green tourmaline (\$13) that was donated by **Mark Jacobson**; *Tina Fleming* won the barite specimen donated by **Porter Minerals Int'l**. The last two specimens had a tie for \$10 each, the spodumene donated by **Mark Jacobson** was won by *Jennifer Knies*; the amethyst specimen donated by **Crystallinn Int'l** was won by *Bill Ramey*. *Thanks Tom Reilly for helping draw the raffle tickets.*


**It is fun to hear "shoot"... when the ticket holder's number is just missed or see the happy smile when their number is called to be the winner!!! Your continued support of the raffle is amazing, thank you very much.**

Congratulations to all our lucky winners.

*Submitted by Eva Siemonsma, CMS Raffle Manager*


# May Auction Success!

The CMS May Auction was a huge success. We wish to thank the volunteers, donors, sellers, and buyers for their contribution! Our beautiful mineral specimens were donated to CMS by the wonderful donors below. If you need a special piece for your collection, visit or contact these dealers!



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**Shealeene Kent's Kids Corner**

# CMS Junior Rockhounds Program

**Plan:** The CMS Junior Rockhounds Program will continue to be guided by Dr. Lewis Reynolds for the next two years. This is not a required activity for any of our junior participants. Instead, it offers a more structured learning experience and the opportunity to earn achievement badges for those juniors who are especially motivated by such a program. For all the junior participants, we will introduce and discuss one of the topics in the Future Rockhounds of America program during each regular CMS meeting. Interested junior participants may complete the remaining achievement badge requirements at home and then bring evidence of task accomplishment to the new Coordinator, Dr. Lewis Reynolds, for final approval and transmission to the AFMS Juniors Program chair.

The following table presents our planned schedule for the next two years. The Future Rockhounds of America Program currently offers 20 badges. We will introduce 18 of the badge topics at the regular meetings, doing six per year. (If a CMS regular meeting is cancelled for some reason, the Junior Rockhounds Program will also be cancelled that month.) Two additional badges or topics may be pursued by interested participants: Communication and Leadership.

| Month of Regular Meeting | 2014-2015 Badge/Topic                              | 2015-2016 Badge/Topic                              |
|--------------------------|--|--|
| October                  | Earth Processes                                    | Earth Resources                                    |
| November                 | Gemstone Lore & Legend                             | Lapidary Arts                                      |
| December                 | No Program - Party                                 | No Program – Party                                 |
| January                  | Showmanship  | World in Miniature                                 |
| February                 | Gold Panning & Prospecting                         | Earth in Space                                     |
| March                    | Special Effects                                    | Fossils  |
| April                    | Collecting   | Maps   |
| May                      | No Program – Field Trips<br>Overviews and Sign-ups | No Program – Field Trips<br>Overviews and Sign-ups |

**Junior Participation.** The Future Rockhounds of America program is open to juniors under the age of 18. Although no minimum age has been established, the Coordinator would like to make the following suggestions. We would like the junior participants to be excited about these topics and to look forward to attending the meetings. A participant may have the maturity to begin when she or he can sit rather quietly, listen, respond to questions, ask questions, and interact with others respectfully for about 30 minutes. A participant may be more comfortable completing badge requirements when she or he has begun to read happily. Younger participants will need more guidance and involvement from their parents or guardians than more mature participants. For each participant, we want to utilize the program for her or his greatest benefit.

**The Optional Badge Program.** Participants and their parents or guardians may view the Future Rockhounds of America Badge Program online at [http://www.amfed.org/fra/fra\\_badge.htm](http://www.amfed.org/fra/fra_badge.htm). (Also check the CMS Homepage for a link to this manual.) The badge manual contains the signature pages and good background resources for each badge. (Please let the Coordinator know if computer access to this document is not available at home or a nearby public library.)

**Our Needs.** The Junior Rockhounds Program will need some help from members of the CMS for this venture to be successful. First, we would like a second parent, guardian, or member to help supervise each meeting. Sadly, many organizations are recognizing the need to safeguard our children, and it is very helpful to have two adults present when working with children to ensure appropriate discipline and accountability. Happily, this is an opportunity for an interested adult to enjoy the “rock talk” while the normal club business is conducted nearby!

The Coordinator needs help with the showmanship, gold panning & prospecting, lapidary arts, and micromounting topics planned for 2014-2015 and 2015-2016. If you are interested in helping in any of these three areas of need, please contact the Coordinator Lewis Reynolds (phone: 303-333-4360; email: Lewis.Reynolds@comcast.net). The first need is coming up soon!

We are looking forward to fun Junior Rockhounds Programs in the coming years and to investigating inspiring topics!

## Denver Gem & Mineral Show Mini Report August 2014

The Denver Gem & Mineral Show will be here soon. Don't forget the important information - the dates are September 12 - 14, the location is the Denver Mart at the intersection of I-25 and 58th Avenue and the theme is Agate. Here is the list of speakers for the show.

### Friday:

- 1:00 p.m. Brian Jackson - "Scottish Agates"
- 2:00 p.m. Dale Gann - "Thundereggs"
- 3:00 p.m. Eugene Mueller - "Mining Agates at Graveyard Point, Oregon".

### Saturday:

- 12:00 p.m. Steve Veatch's group to include: Jenna Salvat - "Smithsonite"; Jerrod/Nathan Gallup - "Geology of White Sands"; Sean Kosman - "Gems of the Roman Empire"; Jack Shimon - "Dinosaur Tracks"; Luke Sattler - "Lithics of Pikes Peak Region"; Blake Reher - "On the Edge of Discovery".
- 1:00 p.m. Pete Modreski - "Starting a Collection/Agates"
- 2:00 p.m. Alberto Ray - "Mexican Agates and Thundereggs"
- 3:00 p.m. Kevin Coleman - "Mining Lava Cap Thundereggs"
- 4:00 p.m. Dick Dayvault - "Southeast Utah Agates".

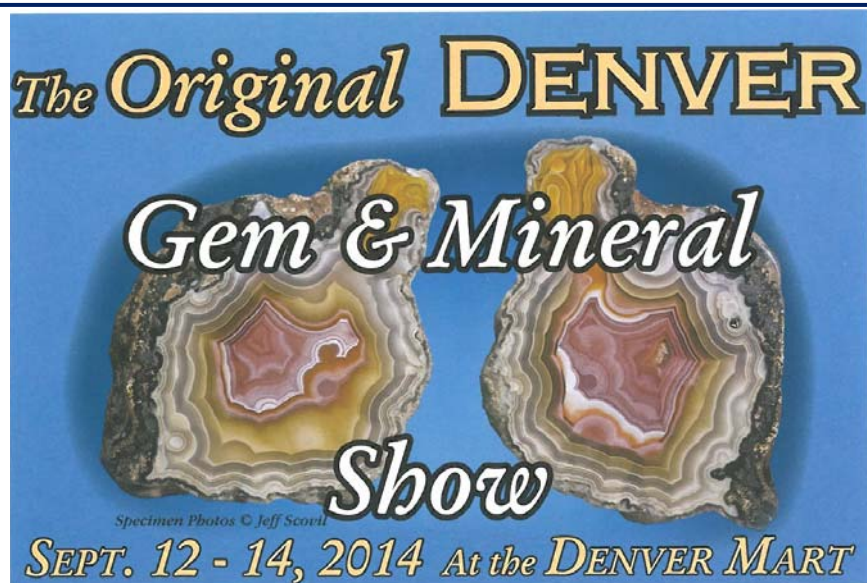
The Saturday evening presentation will be by Dale Gann titled "All for the Love of Agates".

### Sunday:

- 1:00 p.m. Ed Raines - "Sowbelly Agate, Creede"
- 2:00 p.m. Albert Liebetrau - "Unusual Fluorescent Phenomena in Agates".

There is much to think about between now and the show. Are you planning to attend the show? Are you volunteering at the show? Remember 400 volunteers are needed to put on the show. Are you helping set up your club's table/exhibit? Are you exhibiting yourself? Will you attend the Saturday evening buffet, presentation and awards ceremony? What specimens will you be searching for at the show? What specimens or jewelry do you plan to buy? Which dealers will you be sure to visit to check out their offerings? Which exhibits will you study? So many interesting talks, which will you attend? Will you visit the Fluorescent Room? I think you get the idea. There is so much to do, buy, see and learn at the show. The show depends on the members of all the clubs in order to have a great show. See you in September.

*Respectfully submitted, Judy Knoshaug, Show Secretary*



# SHOW YOUR BEST AGATE

The Greater Denver Area Gem and Mineral Council show committee has decided to try something new this year as a way of increasing the number of specimens that will be displayed. With agates being the theme this year it was decided that there will be no specimen competition. In an effort to get as many agates possible into display cases we will be implementing a new category of non-competitive displays “**Show Your Best Agate**”. These display cases will consist of individual specimens, similar to the way competitive specimens have been shown in the past. All agates are eligible. Depending on the number of agates being entered we may be able to accept more than one agate from an individual.

To enter an agate the owner must fill out the “Show Your Best Agate” entry form and return it to Dale Gann by **August 25, 2014**. Each agate should have some type of identification name or number placed on it in an inconspicuous location. Provide a detailed label with the common name for the agate if there is one, location where it was collected or list it as unknown, was the agate self-collected and your name, if you would like. Place the identification name or number on the back of the label.

Along with the “Show Your Best Agate” cases there will also be the standard competitive and non-competitive cases. Application forms for these cases are available on the Denver Gem and Mineral Show web site.

As with competitive display cases and the prospector case, the agates must be delivered on Thursday between 2:00 and 7:00 pm before the show opens.

---

## ENTRY FORM FOR “SHOW YOUR BEST AGATE”

### Denver Gem and Mineral Show

September 12, 13, 14, 2014 The Denver Mart, I-25 at 58<sup>th</sup> Ave.

**(ENTRY DEADLINE – MONDAY, AUGUST 25, 2014)**

The exhibitor is responsible for the exhibit throughout the show, including set-up and takedown. Guards will be on duty at all times; however, neither the Greater Denver Area Gem and Mineral Council nor the Denver Show Committee assumes responsibility for any loss or damage. The exhibitor's signature on this form acknowledges consent to this statement.

To ensure all agates return to their proper owner please place an identification name/number on your agate and place the name/number on the back of the specimen label.

**Drop off your agate Thursday September 11, 2014 (between 2 PM and 7 PM)**

Name \_\_\_\_\_ Date \_\_\_\_\_ Phone \_\_\_\_\_

Address \_\_\_\_\_ E-mail \_\_\_\_\_

City, State, Zip \_\_\_\_\_

Type and size of Agate:

**I agree to abide by the above rules and procedures.**

**Exhibitor Signature:** \_\_\_\_\_

All mailed and emailed “Show Your Best Agate” applications go to Dale Gann.

For further information contact:

Dale Gann - 303-304-0886 [GatorGann@msn.com](mailto:GatorGann@msn.com)

5978 S Van Gordon St

Littleton, CO 80127



# Colorado Science and Engineering Fair, 2014: The Awards Report

by Craig Hazelton

On Thursday, April 10th, four CMS members (Craig Hazelton, Jerry Kiefer, Bruce Geller, and Lee Brown) had the pleasure of serving as judges for the 59th Annual Colorado Science and Engineering Fair held at Colorado State University in Fort Collins. Good job guys! CMS is one of a number of organizations that provide special awards for the competition that brings together interesting displays representing the research projects of middle school, junior, and senior high school students from throughout the state. CMS is the only private organization that has presented a special award during the entire 59-year history of the state science fair.

There is a contaminated boggy pond just upstream from Silverton that is almost black in color. Next to the pond is an Engleman spruce, more than a hundred years old, that has a hole drilled in it. *“Can Trees be used to Determine the Pollution History of a Water Source?”* is the senior project by Raelen Barr and Hannah Dekay that the CMS judging committee selected for first place. These young women designed an excellent experiment and coordinated with the Forest Service to perform chronological mass spectroscopy on tree ring bores from the spruce to determine the pollution history of the area. They discovered high levels of lead contamination occurred during 1963 in the pollution history record they generated. They indeed proved this method as a viable technique for determining pollution history.

The sophistication, technical understanding, and communication skills these women displayed were simply amazing. This is likely due to their bright nature and also the product of the Expeditionary Learning (EL) at the Silverton School. The Silverton School (K-12, <http://silvertonschool.org/>) was recently rated as, “the 25<sup>th</sup> Coolest School in the U.S.” EL is a “discover-by-doing” teaching system developed by Outward bound and the Harvard Graduate School of Education some 23 years ago. There is a collection of these EL schools around the state and the country (<http://elschools.org/about-us/school-network>) and I would most certainly send my kids to an EL school if I had some.



Fountain creek in Colorado Springs has flooded several times in the 26 years I have lived in Colorado. I remember driving to Pueblo from Colorado Springs in 1994 and ogling the very large path of devastation that could be seen from the highway on its way to dumping into the Arkansas River. Misha Kumel (North Middle School, Colorado Springs) completed her first place winning junior level project *“A River Degraded: The Effect of Fountain Creek on Fluvial Processes & Ecology of the Arkansas River”* where she found that Colorado Springs has a more negative effect than the floods on Fountain Creek and subsequently the Arkansas River. The healthy Arkansas River becomes unhealthy below the confluence with Fountain Creek. Better river management and restoration are needed to restore these waterways to a healthy state. The quality of Misha's work and presentation attracted the largest crowd of all the projects we were reviewing.

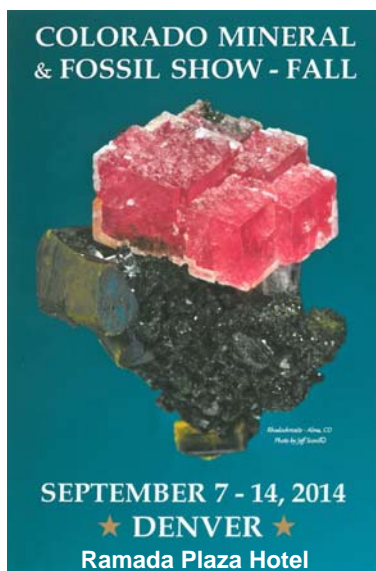
Often nature follows predictable trends, such as the amount of oil that can be stored in a sandstone reservoir increases with the grain size of the host rock because pore size increases too. Joe Pope (St. Columba Catholic School, Durango), a Junior winner studied this in his project, *“Got Oil? Part II: A Study of Oil Absorption in Sandstone”*. Joe found that sandstone with a medium sized grain held less oil than smaller grained sandstone, contrary to expected trends. This was a red flag to one of our judges, Lee Brown, so we went and talked with Joe about the unusual result. Joe explained that the calcite cement holding the silica grains together reduced the oil holding capacity of the medium sized grain samples by partially filling the pores. Joe had field collected all of his specimens and cut them into 1.0 cm cubes. We pretty much immediately decided to award him second place (Joe was a winner last year too).

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## Colorado Science and Engineering Fair, 2014: The Awards Report (Continued)

What do you do with beetle kill pine wood? Either you make blue streaked paneling or biochar, which is a charcoal made by heating plant matter in an oxygen deprived oven. There are start-up companies in Colorado currently gearing up for the large-scale manufacture of biochar from beetle-kill wood for use as a pollution mitigation media for a variety of industries, including mining. Lenka Duskocil (Bayfield High School, Bayfield) studied biochar in her second place winning senior project, "*Healing Scars: A Study on the Use of Biochar as an AMD Buffer*". Acid mine drainage (AMD) is a problem in the mines of Colorado that contain sulfide minerals such as pyrite, galena, and sphalerite when they weather creating sulfuric acid and leaving Fe, Pb and Zn ions in the soil. Her research showed that biochar has both a positive effect on soils exposed to AMD and binds heavy metals.

Thanks to CMS for providing the awards to the judging committee that were given to the winners. Thanks to Eva Siemonsma for making a special trip to the Colorado Geological Survey to provide us the copies of the wonderful book, *Messages in Stone, Colorado's Colorful Geology*, to give to the winners. Thanks also to Ken Porter for the great deal on mineral awards.



### CMS Membership Reminder

Starting October 1, 2014, you can pay your 2015 dues. CMS memberships run from January 1st to December 31st. You can pay your dues in three ways:

1. Pay with cash or check at a general meeting. 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/renewal form is located on the CMS website at [www.coloradomineralsociety.com](http://www.coloradomineralsociety.com). If you are renewing your membership, send in the form with your payment because it contains additional information that we are collecting, such as children's birthdays and volunteer interest.

## For Sale

Am Scope SE306-P Series Illuminated Stereo Microscope  
Only 1 year old - no wear (actual use = 3 weeks)  
Must sell, Asking \$400

Also includes:

Operating manual and instructions  
30.5 mm camera (SCMOS Series 640 x 480 .3 mpf live  
color image USB 2.0)  
OPL Guide to Spectroscopy  
Spectroscope (direct vision RDV-2 radical)  
Lenses 2 x/4x  
45degree binocular  
Top light/bottom light with dimmer  
pillar stand  
stage clips + tweezer clip  
B + W stage plate 95 mm + glass plate 95 mm  
eye guards  
dust cover  
bottom plates  
7 immersion liquids for refractive indexing

If interested, contact Star Edwards at [starharp@comcast.net](mailto:starharp@comcast.net)



## Ouray-Silverton San Juan Mountains Mineral Symposium

September 6-7, 2014

Sponsored by

**The Colorado School of Mines  
Geology Museum**

**Friends of Mineralogy, Colorado  
Chapter and**

**Friends of the Colorado School of  
Mines Geology Museum**

Based in Silverton and Ouray, Colorado, this exciting event will include presentations on the mining history, geology and minerals of one of America's most spectacular mountain areas, with guided field trips and opportunities for mineral collecting. The symposium will include an icebreaker social Friday evening 9/5; lecture presentations on Saturday 9/6; a banquet with a special program Saturday evening; guided field trips on Sunday 9/7; and info for additional self-guided field trips. Registration is \$60; banquet \$25; no charge for most of the field trips. There is still room at the symposium for more attendees. For full information and registration forms see <http://friendsofmineralogycolorado.org/> or [https://www.facebook.com/pages/Ouray-Silverton-San-Juan-Mountains-Mineral-Symposium/224883727702374?ref=br\\_tf](https://www.facebook.com/pages/Ouray-Silverton-San-Juan-Mountains-Mineral-Symposium/224883727702374?ref=br_tf).

**Please note that advance registrations will not be accepted after August 25!** You can still register on-site at the Ouray Elks Lodge (BPOE), 421 Main Street, Friday evening or Saturday, but you will not be able to reserve a place at the banquet or on the field trips.

## 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](http://www.rmfmts.org). The next RMFMS newsletter is published in September.



## 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>

## CMS Meeting – May 2, 2014

Bruce Sales, President, opened the general meeting.

CMS Auction tomorrow May 3, 2014:

- Located at Holy Shepherd Lutheran Church - annual fund raiser / silent & verbal auction
- Volunteers meeting at 8:45am in parking lot
- Food & beverages provided
- Auction hours from 11am – 3pm
- Kids tables will be available

Field trips review by trip leaders and field trip sign up.

*Notes taken by Sandra Gonzales*

### Door Prize Winners

|                   |                |
|-------------------|----------------|
| Bob Chavez        | Kate Chavez    |
| James Mahoney     | Lewis Reynolds |
| Carol Gray        | Linda Anderson |
| Rob D             | John Todesco   |
| Pat Russell       | Dan Wray       |
| Merlin Schreffler | Mark Danuser   |

## CMS Board Meeting – May 27, 2014

Attendance: Bruce Sales, Sandra Gonzales, Leslie Osgood, Daryl Lamb, Debbie Kalscheur, Eva Siemonsma, Bill Jones, Gary Rowe, Amber Brenzikofer, Howie Houk, and Cara Reynolds

The board members worked together to get out all the thank you notes for sellers and buyers from the CMS Silent Auction event

### Old Business

- Bill Jones turned all the paper work into the Denver Show Committee
- Show committee volunteers needed
- Requesting field trip pictures to be sent to Amber, so she can prepare the Powerpoint presentation for the Denver Show photo frame of club members,

CMS Auction update:

- A big thank you to all the volunteers who help make the auction a success
- Eva has redone balance sheet to correct the auction spreadsheet
- The tables need to close on schedule
- Great Auction and many compliments on how well organized the auction was this year

Amber Brenzikofer will be attending the American Federation and Rocky Mountain Federation of Mineralogical Societies Annual Conference in Tulsa, OK in July, so she will represent CMS at the Delegates Meeting

Grab Bags- Dale Block will continue with the grab bags. The new committee will assist Dale & Virginia

### New Business:

Eva Siemonsma presented the 2014 financial report

- It was discussed to print the field trip guide in black and white copies, not color
- Eva Siemonsma will look into reserving a facility for the CMS April 3, 2015 meeting, TBD

Next Board meetings will be held in July & September - No Board meetings in June & August

Denver Show Council meeting - Daryl will be attending

Motion to adjourn.

*Notes taken by Sandra Gonzales*

## CMS Board Meeting- July 22, 2014

Attendance: Bruce Sales, Sandra Gonzales, Leslie Osgood, Daryl Lamb, Debbie Kalscheur, Eva Siemonsma, Bill Jones, Gary Rowe, Amber Brenzikofer, Howie Houk, and Cara Reynolds available by phone

### Old Business:

Show Committee updates:

- Trip photos turned into Amber Brenzikofer by August to put together Powerpoint presentation
- No meetings for the show committee in June
- Bill will get show posters to give out at the Founders Day Picnic
- Volunteers needed for the September show

Founders Day Picnic Update: August 30, 2014 - 11-4pm

- Bring own meat and bring a side dish
- Bring in the best mineral specimens that you found over the summer
- Trip leaders will be asked to do a brief write-up on the field trips

New Editor of the Year award update: Great Job Amber!

- Amber Brenzikofer was presented a 3<sup>rd</sup> place award for new editor of the year in the Rocky Mountain Federation of Mineralogical Societies (RMFMS) bulletin contest and 7<sup>th</sup> place in the American Federation bulletin contest
- Gary Rowe received a 1<sup>st</sup> place award for a photo article on Cripple Creek (Victor Mine)
- Bruce Sales received honorable mention for his Crystallography 101 article
- Leslie & Rich received honorable mention for their Auction Flyer
- Amber was recruited to be the Editor for the RMFMS

Need a facility for the April Meeting:

- Eva Siemonsma booked the Clements Recreation Center for the CMS meeting in April 2015

Club Outings Update:

- Field Trips are well attended and are going well
- St. Peter's Dome trip will be updated in newsletter

General updates:

- No board meeting next month, next board meeting is September 16, 2014
- Next general meeting is October 3, 2014

### New Business

Amber-Brenzikofer wants CMS to compete in the American Federation's All American Club Event. We need a scrap book committee – See Amber if you are interested in being on the committee

Gary Rowe- There are still some field trips scheduled for 2014. Trips are going well

Eva Siemonsma presented the board with a financial report:

#### July Treasurer Report:

|                                |            |
|--------------------------------|------------|
| CMS Expenses 10/1/13 - 7/21/14 | \$6,230.90 |
| CMS Income 10/1/13 - 7/21/14   | \$8,971.06 |
| Net Diff:                      | \$2,740.16 |

See treasurers detail at the next meeting.

Daryl Lamb attended the Denver Gem & Mineral Council Meeting and discussed some possible changes in the September show for 2015. Educational grants are available – information will be available on how to apply to get a grant - The Denver Gem and Mineral Council

Howie Hauk- Needing volunteers to make food for the May Auction

Bruce Sales- Display Committee (Harold Taylor, Lesley Sebol, Dan Wray) will be working on the display for the Denver Show, Wheat Ridge Recreation Center, Monthly Meetings Speakers

Bruce, Gary, Debbie will be working on speakers for 2014-2015 CMS meetings

Bruce, Gary, & Daryl will be putting together an education program for 2014-2015 season

Meeting Adjourned

*Notes taken by Sandra Gonzales*



Colorado Mineral Society  
PO Box 280755  
Lakewood, CO 80228

## FIRST CLASS MAIL



### Upcoming Meetings

#### **Founder's Day Picnic - August**

Date: Saturday, August 30, 2014

Time: Noon-4pm

Place: St. Paul's Church, Lakewood

#### **Regular CMS Meeting – October**

Date: Friday, October 3, 2014

Time: 7:30pm

Place: St. Paul's Church, Lakewood

#### *Looking ahead:*

**Sept. 6-9, Denver Fine Mineral Show**, at the Denver Marriott West, 1717 Denver West Boulevard, Golden, Colorado; see <http://www.finemineralshow.com/>

**Sept. 6-14, Denver Coliseum Mineral, Fossil, & Gem Show**; see <http://www.coliseumshow.com/>

**Sept. 7-14, Colorado Mineral & Fossil Show**, Ramada Plaza Hotel (formerly Holiday Inn), Denver, see [http://www.mzexpos.com/colorado\\_fall.html](http://www.mzexpos.com/colorado_fall.html)

**Sept. 10, Colorado School of Mines Geology Museum, Reception & Open House**, 6-9 p.m. All are welcome to attend this reception at the CSM Museum, showcasing new exhibits installed in the museum, with complimentary refreshments, music, and cash bar. The Museum is located at 1310 Maple St. (the corner of Maple and 13<sup>th</sup> Streets) in Golden; no admission charge; normal museum hours are 9 a.m. – 4 p.m. Mon.-Sat., 1-4 p.m. Sun.

**Sept. 12-14, Denver Gem and Mineral Show**, Denver Mart (formerly the Denver Merchandise Mart), see <http://www.denvermineralshow.com/>

**Oct. 12-18, Earth Science Week**, various events in Denver

<http://www.coloradomineralsociety.org>