President's Message

By Bruce G. Sales

Hello everyone, I hope that you got to attend many field trips and had a very productive collecting season this year and got to spend some quality time at the Denver Gem and Mineral Show. I am happy to announce that Colorado Mineral Society (CMS) has won the prospectors case for the third year in a row.

Gary Rowe collected the number one specimen, a beautiful Epidote collected on the Calumet Iron Mine field trip; He also collected a complete Scaphites ammonite found on the Highway 93 Limestone Quarry field trip, which was the number two specimen. Lewis Reynolds collected the number three specimen, a very large Almandine Garnet on the Sedalia Copper Mine field trip.

Our display case won by a very small margin over the second place Littleton Mineral Club display, a large part of the victory is due to the efforts of Paul Crowell. Paul was inspired by a field trip to the Commodore Mine in Creede, Colorado, during the 2012 field season, to create the mine model that was used in our Prospectors Case.

Congratulations to the CMS Junior Rockhounds who contributed to the Junior Prospectors Competition. Shealeene won first and second place. Other junior rockhound submissions came from Kuyper and Rigel.

CMS gave away a lot of free rocks at the Denver Gem and Mineral Show; I want to thank everyone who volunteered time to be at the CMS Table. Some of the club members took multiple shifts and due to the flooding in the region, some members were not able to be there for their shifts. This brings up the need for volunteers for the 2014 show, which will feature agates; it is never too early to be thinking about next year.

We will be re-arranging the scheduled meeting format of the October 4, 2013 meeting, Ed Raines is scheduled to give a talk entitled: “Zinc, Colorado and the World”. Due to the recent flood damage and limited road access to the Jamestown area, Mr. Raines will give his presentation before the general meeting, in order to allow Mr. Raines to travel safely the two plus hour trip from Lakewood to Jamestown. The October 4, 2013 CMS Meeting will start PROMPTLY at 7:30 pm.

So be there early to help set-up; and I have to go to work immediately after the meeting and I would appreciate some help breaking down and storing the display cases after the meeting.

Marge Regel is presenting her collection of New Mexico minerals at the October meeting, thank you Marge. We have people lined up to display their minerals for the most of the meetings through May 2014, there is an opening for the March 2014 display, if anyone wishes to display their collection, let me know at a CMS meeting or email me; oscar51686@yahoo.com.

Due to the re-arrangement of the meeting format, I will not be presenting a course installment of Crystallography 101 this month; I will continue the series in November.
COLORADO MINERAL SOCIETY OFFICERS
2013
President: Bruce G. Sales oscar51686@yahoo.com
First VP-Programs: Gary Rowe 720-962-0212
Second VP-Education: Debbie Kalscheur 303-200-0260
Secretary: Sandra Gonzales 303-758-1939
Treasurer: Eva Siemonsma 303-239-6798

Appointed Board Members - Committee Chairpersons
Annual Auction: Richard Nelson Family 303-697-1574
Door Prizes-Guests: Jessica Blackburn and Donna Roberts
Library: Kevin Atwater 303-239-6798
Exhibits: OPEN
Membership: Cara Reynolds 303-333-4360
Field Trip Leader: Gary Rowe 720-962-0012
Field Trip Leader Co-Chair: OPEN
Nominations: Daryl Lamb 303-993-6685
Grab Bags: Dale Block 303-986-6531
Editor: Amber Brenzikofer 720-480-5234
Historian: Amber Brenzikofer 720-480-5234
Youth Activities: Lewis Reynolds 303-333-4360
Hospitality: Robert and Natalie Briscoe
Donations: Debbie Kalscheur 303-200-0260
Web Master: Julio Edwards
coloradomineralsociety@comcast.net

Representatives (Board Members)
Denver Council Rep: Daryl Lamb 303-993-6685
Denver Show Rep: Bill Jones 303-503-6798

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. All correspondence to Mineral Minutes should be sent to Editor, P.O. Box 280755, Lakewood, Colorado 80228-0755 or by email to brenzikofer@yahoo.com.
CMS Meeting Speaker Line-up

October 4th Speaker

October's speaker is Ed Raines, who will tell us about zinc, a rather dull metal with an important mining history here in Colorado and elsewhere. Ed, who is the collections manager at the Colorado School of mines Geology Museum and the instructor extraordinaire for the CMS mineral identification course we are offering this fall, will present a talk titled "Zinc, Colorado, and the World". Here's a description provided by Ed:

The Romans used zinc, but they never actually used the metal zinc. No, that isn't a typo! Zinc was the bane of many frontier Colorado gold miners. Sphalerite comes in many forms, and colors, and the name means to trip, as in to "trip-up" or cause a mistake. And, both sphalerite and zinc have some very unusual thermodynamic properties that have created all kinds of problems in the world of metals through the years. Groucho Marx was more learned in the field of metallurgy than anyone had ever imagined.

Because Ed is driving down from Jamestown to give the talk we will be starting promptly at 7:35 pm so he can get back home at a reasonable hour. Hope to see everyone there.

November 1st Speaker

November's speaker will be Bob Patten, who will be discussing knapping. Knapping is the shaping of flint, chert, obsidian, or other conchoidal fracturing stone through the process of lithic reduction to manufacture stone tools. Bob has knapped replicas for over fifty years, using tools of stone and antler. He is known in the circles as "Knapper Bob" and is an author of several books on the subject, including "Old Tools—New Eyes" and "Peoples of the Flute", and many articles for various newsletters and publications. He has a passion to teach those who have interest.

Since childhood, Bob Patten has been fascinated with artifacts and flaking stone into tools himself. That early interest grew into what can now be best described as an obsession with lithic technology. He balances a unique blend of unbridled curiosity, technical background, broad exposure to the natural sciences, and archaeology. Bob studied civil engineering and did topographic mapping for the U.S. Geological Survey before he retired. Now he lives in Lakewood, Colorado and indulges his passion for flaking stone.
Colorado Mineral Society’s Junior Rockhounds Program

By Lewis Reynolds, Coordinator

October Topic: Rocks and Minerals

Overview: The Colorado Mineral Society enjoys many field trips during the summer in order to collect minerals, fossils, and rocks. Tonight we will discuss strategies for identifying the specimens that we find. What are minerals, rocks, and fossils? After considering the environment or geological setting where each sample was discovered, we will introduce a number of physical and chemical properties that are useful for mineral identification.

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, so a sign-up sheet will be used to help organize the remaining meetings on the 2013-2014 CMS calendar. Although the youth do not need any supplies for this meeting, a pencil or pen and a notebook may be helpful for taking notes.

The Junior Rockhounds Program will jump right into the lesson on rocks and minerals. This topic motivates the Rocks and Minerals 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):


The Rocks and Minerals badge is discussed on pages 14-30 of the manual.

Parents or guardians: please print the sign-off sheet on page 15 and check-off, sign, and date each accomplishment as it is completed. Submit the completed form to Lewis Reynolds to process the badge award.

FOR SALE

A mahogany display case with incandescent lights. Its dimensions are 36" long x 24" deep and it slopes in height from 3.5" in the front to 12" at its back. It comes with a matching color sturdy pine(?) table that is 29.5" high x 36" long x 24" deep. Anyone who is interested should phone Nancy Nikl at 303-986-1277. They are asking $250 or best offer for the combined set. It was handmade by Nancy's deceased husband.

Another item Nancy is selling is a sphere making machine made by Covington's of Redlands, CA (see photos below) and the price is negotiable. Nancy also mentioned that her late husband made model ships and she has several 6-foot-long model ships for sale. Phone Nancy for details.
Recap of the Denver Gem and Mineral Show

The 2013 Denver Gem and Mineral Show was a success despite the lousy weather and challenging road conditions. CMS won first place in the Prospectors Case competition for the third straight year in a row and one of our junior rockhounds won first and second place in the Junior Prospectors competition for her Phenakite and Fluorite specimens. The CMS club table was a hit with the kids and kids at heart taking home free donated rocks and minerals. A big thanks to all the volunteers that made this show a success! Photos credited to Amber Brenzikofer.

Shealeene won 1st and 2nd place Club table display with 2013 rock trip specimens

Club table with volunteer Debbie Kalscheur

Club table with volunteers David and Ethan Steffen

Club table display with 2013 rock trip specimens

Bruce Sales accepting CMS Prospectors 1st Place plaque at award ceremony

Shealeene won 1st and 2nd place
THE CASCADIA SUBDUCTION ZONE
WHAT GOES DOWN JUST MIGHT COME BACK UP

By J. E. Hedricks

MOUNT SAINT HELENS

While most of you were getting ready for and taking in the Denver Gem and Mineral Show, I was on a vacation and photo assignment in Washington State. My assignment took me to Mount Saint Helens.

The Cascade Range is a string of volcanic peaks in the Pacific Northwest that runs from Lassen Peak in Northern California to Mount Garibaldi in Southern British Columbia. They exist because as the North American continental plate moves to the West, it overrides the Juan DeFuca plate which lays off the coast from Northern California to British Columbia. As the floor of the Pacific Ocean is forced under the North American plate it sinks to a depth of about 60 miles, where steam causes melting of the overlying mantle forming Basaltic and or Andesite magma. It is believed that volcanic activity along this range began in the late Eocene period, or about 40 million years ago.

Mount Saint Helens is the lowest, youngest, and western most volcano in the Cascade range, and the site of the most recent volcanic eruption in the lower 48 states. Geologic evidence shows that it was only about 37 thousand years ago that the mountain building process started at Mount Saint Helens. The other volcanoes in the Cascades all show unhealed scars of glaciation indicating that they have not been very active over the last few thousand years. Mount Saint Helens, however, shows no signs of glaciation and was, before May 1980, almost a symmetrical cone. About 2,500 years ago, the volcano started to erupt Andesite and Basaltic lava that flowed out in thin layers building a shield volcano that is the platform on which the modern mountain now stands. Since then it has been extremely active and most of the mountain is less than 2,000 years old.

Early inhabitants of the area witnessed a great deal of volcanic activity and where forced to relocate there settlements more than a few times. In 1800, Mount Saint Helens entered an active phase that lasted 47 years. It then settled down and went into a dormant phase. I have an old lithograph from the 1920's that calls it an extinct volcano in the Cascade Range. Then in mid March 1980, a swarm of small earthquakes began to shake nearby communities. Then on March 27th, small clouds of steam began to erupt. The earthquake swarms continued with some strong enough to rattle windows and knock dishes off of their shelves. Geologists quickly set up a system of seismograph stations around the mountain to monitor these earthquakes. The data from these stations soon showed that these quakes where centered deep under the mountain indicating a build-up of magma.

As clouds of steam continued to erupt from a new crater at the summit, rising magma started to form a bulge on the upper North side of the mountain. At first the bulge was not easy to detect, but it grew at a steady rate and eventually could be seen by even the casual observer. Finely the bulge was growing at the rate of almost 6 feet a day. The geologists monitoring the mountain were becoming concerned about this growing bulge on such a steep slope. Then, on the morning of May 18, 1980, witnesses reported seeing the mountain blur, as if it were out of focus, as the bulge began to quiver. Suddenly the entire North side of the mountain began to slide. This slide removed the pressure from the magma dome and within seconds a great explosion released the energy equivalent to 22,000 Hiroshima atomic bombs. The blast blew the side of the mountain sideways at about 500 miles per hour. The landslide continued down the North slope in the form of a mudslide at about 200 miles per hour into the North Fork of the Toutle River and downstream.

Continued on Page 7
Mount Saint Helens (continued from Page 6)

into the Columbia River. The mud slide also dammed up the only outlet from Spirit Lake. The volume of the slide was about 3/4 of a cubic mile of rock and mud. As steam and ash blew into the sky, the majority of the ash hugged the ground in the form of a pyroclastic flow into Spirit Lake raising the water level almost 200 feet. By nightfall, ash was falling in three states over half a million square miles. Days later when the skies cleared the summit of Mount Saint Helens was 1,300 feet lower than it had been and a mile wide crater had formed in the North flank of the mountain where the bulge had been.

It is hard to say if this was an isolated incident or the beginning of another active phase for this mountain. In 2004, a series of small eruptions began and lasted through 2008. But one thing is for sure, geologists will be keeping a sharp eye on Mount Saint Helens for some time to come.

Resources:
National Park Service - Washington (http://www.nps.gov/state/wa/index.htm?program=all)
Roadside Geology of Washington by David D. Alt and Donald W. Hyndman, 1984

!!!!!!!!!!!!!!!!WELCOME!!!!!!!!!!!!!
CMS Founder's Day Picnic Celebration

The CMS Founder's Day Picnic was held Saturday, September 7th to have fun and show off finds from this year’s field trips. CMS was founded in 1936, making it 77 years in existence. The group voted on specimens for the CMS Prospector’s Competition at the Denver Gem and Mineral Show. There was lots of food and great field trip stories that were shared with the group. **Thanks for all those that helped make a great event!**

The specimens that were chosen for the Prospector's case included:

1st - Epidote with Actinolite after Diopside (Uralite) from Calumet Iron Mine collected by Gary Rowe
2nd - Scaphites Ammonite from Highway 93 Quarry collected by Gary Rowe
3rd - Almandine Garnet from Sedalia Copper Mine collected by Lewis Reynolds

Honorable mention and a place in the display went to:
- Topaz on Smoky Quartz from Tarryall collected by Rick and Sabra Hoerter
- Analcime on Chabazite from North Table Mountain collected by Paul Crowell
- Barite from Two Creeks collected by Terry Beh
- Amethyst from Red Feather Lakes collected by Joe Banks
- Stromatolite from Delaney Rim, WY collected by Harold Taylor

**Founder’s Day Picnic Celebration**
Photo Credits: Paul Crowell

**Winning and Honorable Mention Specimens**
Photo Credit: Amber Brenzikofer
2013 Roxborough Elementary Science Fair Judges Needed

Dear Potential Science Fair Judges,

Since 2002, Roxborough Elementary has held a Science Fair for Kindergarten through 6th Grade students. It has grown through the years to typically include about 250 students and is always a huge success. We are excited to be preparing for another great season of experimentation, presentation, judging, and celebration with the students. This rewarding educational experience could not happen without all of our amazing volunteer judges!

We are looking for volunteers for judging our participants and would love to have your help. If you, or others you know, would like to help out we would love to have you!

We divide projects into categories based on grade level and area of science (such as Physical, Chemical, Environmental/Earth and Biological.) Two judges work together on a category and have the wonderful opportunity to talk with each student about their project. We try to assign judges based on their background or interest in a particular area of science. We will also pair first-time judges with a veteran judge. The most important thing is that a judge has an understanding of the “Scientific Method” and a passion for encouraging students to continue to explore science. Please visit our website at www.roxscifair.org to see more of what to expect. On the right hand side there is a Judges Corner where you will find more details, sample judging forms, and volunteer registration forms.

Judging takes place over the course of two mornings at each building:

**Monday November 4th & Tuesday November 5th at the Primary School (Grades K-2)**

**Monday November 11th & Tuesday November 12th at the Intermediate School (Grades 3-6)**

We typically need judges from about 8:00 am to 12:00 pm and we provide a simple breakfast and snacks as a small thank you.

We would be happy to have your help for one, two, three or all four mornings. It can be rewarding to judge at each building to see how much progress these children make in just a few years of elementary school. If you are available for any of these dates, please let me know via the Sign Up to Judge Form on the website or email.

As some of you know, last year we moved our Science Fair to the fall so that 6th grade students had a chance to continue on to the Regional Science Fair at the Denver Museum of Nature and Science. We are happy to report that our students who competed at the Regional Fair placed very well and were thrilled to have that extra special opportunity.

Thank you for your time in considering our request and I look forward to hearing from you. If you know of any other individual or group that would like to help with judging please forward this to them on our behalf.

Thank you,

Ellen Heyd  
Roxborough Science Fair Co-Chair  
roxscifair@gmail.com

Hi,
I am a member of the Fort Collins Rockhounding Club. I am looking for a used 10" rock saw/trim/slab... Would any of your members be looking to sell one? Please have them contact me at this email or at the following number. Thanks,

Johan Morris  
720-436-8356  
johanmorris@gmail.com
Formation of Display Committee

The CMS Board is organizing a display committee that will help coordinate, design, and set-up the display cases during our monthly meetings, the annual auction, the Denver Gem and Mineral Show, and other events, as appropriate.

We want to be more competitive with our display cases at future Denver Gem and Mineral shows and come up with new and exciting themes, so we need some creative people with new ideas to participate.

A sign-up sheet for new display committee volunteers will be present at the monthly meetings or you can contact Bruce Sales at oscar51686@yahoo.com.

CMS New Mexico Field Trip in November 2013

Details of the New Mexico Field Trip from November 6-10th were not available at the time of this publication and will be sent out in a mass email in a few weeks. If you are interested in attending the trip, please contact the trip leader Gary Rowe at glrowe@usgs.gov or 303-854-8094 (cell), especially if you don't have an email address. If you signed up for this trip at the May meeting, you will get the email with details. There is no limit on number of people that can attend.

The 34th Annual New Mexico Mineral Symposium and 5th Annual Mining Artifact Collectors Association Symposium in Socorro, NM is November 9-10th. Information can be found at: http://geoinfo.nmt.edu/museum/minsyp/home.cfm

This year's symposium will consist of a day and a half of formal papers presented in 30-minute time blocks. Papers will focus on mineral occurrences from New Mexico and adjacent states, as well as Mexico. A silent auction, sponsored by the Albuquerque Gem and Mineral Club for the benefit of the Mineral Museum, will be held on Sunday afternoon, November 10.

Online registration for the symposium will start October 3, 2013.

There is a free Rockhounding Guide to New Mexico on the museum website that also contains rules for collecting in New Mexico:

http://geoinfo.nmt.edu/publications/guides/rockhound/home.html
CMS Board Meeting Notes for September 17, 2013

Attendees: Bruce Sales, Eva Siemonsma, Leslie Osgood, Sandra Gonzales, Cara Reynolds, Amber Brenzikofer, Debbie Kalscheur, Bill Jones

Old Business:
Denver Show update –
  • Volunteerism down – To increase volunteers, we need to start recruiting earlier in the year.
  • Bruce Sales and Bill Jones will be requesting clarification on the rules for the club display.
  • The board would like to thank all the volunteers who participated in the Denver show.
1. Mineral identification class -
   • All participants have paid their fees and the class will start on September 23, 2013
2. Jr. Rockhounding Badge Educational program –
   • Lewis Reynolds presented a syllabus for the fall educational program to the board.
   • A motion was approved by the board to move forward with the Jr. Rockhounding badge education program, which includes approval of the syllabus and its contents. Lewis will be recruiting volunteers to assist with the educational program.
3. Guest speakers for 2013-2014-
   • Debbie Kalscheur and Gary Rowe are currently putting together a group of guest speakers for 2013-2014.
   • Bruce Sales and Debbie Kalscheur are currently working on the mineral displays for meetings for 2013-2014.
4. Money clips for Christmas party –
   • Eva Siemonsma will follow up with Craig Hazelton on possibly making money clips for the Christmas party
5. Re-ordering CMS business cards
   • Put on hold since we still have some cards in circulation.

New Business:
Bruce Sales: Open discussion for new business:
  • Next CMS meeting will be on October 4, 2013
  • Bruce discussed the award ceremony at the Denver show and how there needs to be clarification on the rules for the show cases.
  • Bruce discussed the need to have a display committee for all events that take place throughout the year.
  • Once the guest speakers and display cases have been finalized for 2013-2014, it will be announced in the next newsletter.

Cara Reynolds: Reported new CMS members
  • Cara will email board members an updated membership list.
  • Cara made a motion to put together a display committee, and was followed up with approval from the board members.
  • Cara has updated the current database to include names of spouses, emails, and phone numbers
  • Membership bylaws were discussed, and the board feels the needs to reword and update the bylaws at a later date

Bill Jones:
  • Bill will get clarification on the rules for the show displays.

Eva Siemonsma:
  • Closing the yearend financial books by September 30, 2013

Meeting Adjourned – Next CMS Board meeting is October 15, 2013

Submitted by Sandra Gonzales
UPCOMING EVENTS

Regular CMS Meeting - October
Date: October 4, 2013  Time: 7:30pm
Place: St. Paul's Church, Lakewood

Regular CMS Meeting - November
Date: November 1, 2013  Time: 7:30pm
Place: St. Paul's Church, Lakewood

Regular CMS Meeting - December
Date: December 6, 2013  Time: 7:30pm
Place: St. Paul's Church, Lakewood

CMS is part of the Rocky Mountain Federation of Mineralogical Societies and American Federation of Mineralogical Societies. The RMFMS Newsletter can be found at www.rmfms.org and the AFMS Newsletter can be found at www.amfed.org. Check them out!!!!!!!