

THE BULLETIN OF THE COLORADO SPRINGS MINERALOGICAL SOCIETY Published Since 1960

Colorado Springs  
Mineralogical Society  
*Founded in 1936*  
Lazard Cahn  
Honorary President  
March 2019  
**PICK & PACK**  
Vol 59 Number 2

## CSMS General Assembly

**Thursday, March 21, 7:00 PM**

**Speaker: Jenna Salvat**

**Topic: "Synthesis and Characterization of Piezoelectric ZnO Nanofilms for Potential Use as Electromechanical Seismic Sensing Material"**

**Please note: Members whose names begin with A-L are responsible for refreshments in March**

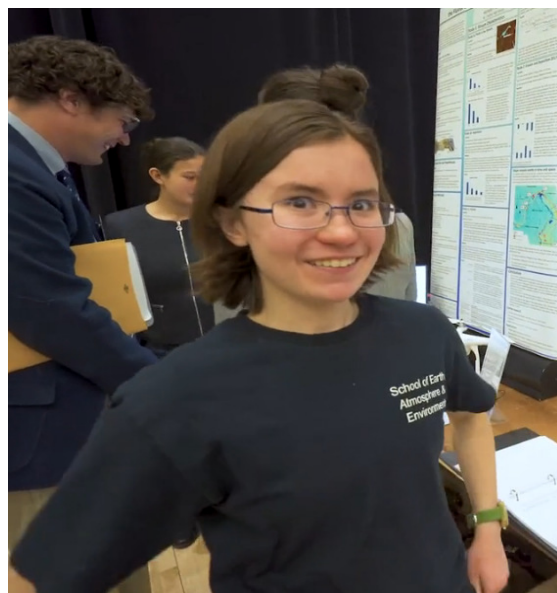
**\*\*In case of inclement weather please call\*\*  
Mt. Carmel Veteran's Service Center 719 309-4714**

### Inside this Issue:

CSMS Calendar	Pg 2
Pebble Pups Corner	Pg 5
Secretary's Spot	Pg 8
Brad's Bench Tips	Pg10
CSMS 2019 Membership Application	Pg11
Classifieds	Pg13
2019 CSMS Exhibit Form and Case Dimensions	Pg15

### MARCH PROGRAM

The title of Jenna's talk will be "Synthesis and Characterization of Piezoelectric ZnO Nanofilms for Potential Use as Electromechanical Seismic Sensing Material." Jenna Salvat will discuss the research that she conducted during her 2017-2018 academic year when she produced piezoelectric nanofilms in a laboratory using wet chemistry methods. The nanofilms that Jenna produced were synthesized using a sol-gel spin coating synthesis method and a hydrothermal synthesis method. These procedures mimic the processes that generate mineral assemblages in nature, such as the mobilization of hydrothermal fluids and their interaction with surrounding rock material or precipitation of minerals from hydrothermal solutions directly.



Jenna has been a member of the Colorado Springs Mineralogical Society's Pebble Pups since she was in 4th grade. Today she is in 12th grade at Coronado High School. Jenna plans to enter college this fall and study geology.

COLORADO SPRINGS MINERALOGICAL SOCIETY PO BOX 2 COLORADO SPRINGS, COLORADO 80901-0002

# CSMS Calendar

## March & April 2019

- Thu. **Mar 7, Apr 4** ----- **Board Meeting** 7p.m., Pikes Peak United Methodist Church
- Tue. **Mar 5, Apr 2** ----- **Fossil Group** 7p.m., Methodist Church, Jerry Suchan, 303 648-3410
- Thu. **Mar 21, Apr 18** ---- **Pebble Pups & Jrs** 5:30p.m., Mt. Carmel Ctr., Steve Veatch, 719 748-5010
- Thu. **Mar 21, Apr 18** ---- **General Assembly** 7p.m., Mt. Carmel Center
- Thu. **Mar 28, Apr 25** ---- **Crystal Group** 7p.m., Mt Carmel Ctr. Kevin Witte, 719 638-7919
- Thu. **Mar 28, Apr 25** ---- **Faceting Group** 7p.m., at the Medina home John Massie, 719 338-4276
- Appointment Only ----- **Jewelry Group** Bill Arnson, 719 337-8070
- Appointment Only ----- **Lapidary Group** Sharon Holte, 719 217-5683

For more information on any of the sub-groups, meetings, and other CSMS valuable information, go to our website: [www.csms1936.com](http://www.csms1936.com)

## Upcoming Events of Interest to CSMS Members

Submitted by Pete Modreski

### Calendar of Coming Events

*Unless as noted, all of these societies' and institutions' lecture series are free and open to the public:*

**Colorado Beer Talks** (2<sup>nd</sup> Tuesday, 6-8 p.m.) Windy Saddle Café, 1110 Washington Avenue, Golden, "Golden's grassroots version of TED talks. Expand your mind with a beer in your hand."

<http://goldenbeertalks.org/>

**Colorado Café Scientifique in Denver** Monthly lectures on science topics held either at Blake Street Station or Brooklyn's Denver. Open to the public, no charge other than refreshments you may choose to purchase. See <http://cafescicolorado.org/>

**Colorado Scientific Society** (3<sup>rd</sup> Thursday, 7 p.m.) Meets at Shepherd of the Hills Church, 11500 W. 20th Ave. Lakewood CO, except when noted. See <http://coloscisoc.org/>

**CU Geological Science Colloquium** (Wednesdays, 4 p.m.) See <http://www.colorado.edu/geologicalsciences/colloquium>

**CSU Dept. of Geoscience Seminars** (Fridays, 4 p.m.) See <https://warnercnr.colostate.edu/geosciences/geosciences-seminar-series/>

**Van Tuyl Lecture Series, Colorado School of Mines** (Thursdays, 4 p.m.) See <https://geology.mines.edu/events-calendar/lectures/>

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**(CONTINUED FROM PAGE 2)**

**Denver Mining Club** (Mondays, 11:30) See <http://www.denverminingclub.org/>

**Denver Museum of Nature and Science, Earth Science Colloquium series** 3:00-4:00 p.m., VIP Room unless noted, day of the week varies. Museum admission is not required; see <http://www.dmns.org/science/research/earth-sciences/>

**Denver Region Exploration Geologists Society (DREGS)** 1<sup>st</sup> Monday, 7 p.m. See <http://www.dregs.org/index.html>

**Florissant Scientific Society (FSS)** Meets monthly in various Front Range locations for a lecture or field trip; meeting locations vary, normally on Sundays at noon. All interested persons are welcome to attend the meetings and trips; see <http://www.fss-co.org/> for details and schedules.

**Friends of Mineralogy: Colorado Chapter** Meets bimonthly (Jan.-Mar.-May-Sep.-Nov.), 2<sup>nd</sup> Thurs. [dates may vary in Sep. and Nov.] 7:30 p.m., Lakeview Event Center, 7864 W. Jewell Ave., Lakeview; see <https://friendsofmineralogycolorado.org>

**Nerd Nite Denver** is a theater-style evening featuring usually 3 short (20-minute) TED-style talks on science or related topics; held more-or-less monthly at the Oriental Theater, 4355 W 44th Ave, Denver; drinks are available. Ages 18 and up. Admission is \$8 online in advance, \$10 at the door. See <https://nerdnitedenver.com>

**Rocky Mountain Map Society (RMMS)** Denver Public Library, Gates Room, 3<sup>rd</sup> Tuesday, 5:30 p.m. <http://rmmaps.org/>

**Western Interior Paleontological Society (WIPS)** Meets on the 1<sup>st</sup> Monday of the month, 7 p.m., at Lowry Conference Center, 1061 Akron Way in Denver. See <http://westernpaleo.org/>

**CRYSTAL GROUP MEETING January 25...Hosted by Austin Cockell**

Thank you Austin Cockell for hosting the Crystal Group's January meeting. Our group leader, Kevin Witte, presented the program "30 Years of Collecting in Pikes Peak Pegmatites" originally authored by our deceased member and longtime collector, Ray Berry. We all had a good time socializing while admiring Austin's stunning collection. Crystal group meetings will be held at the Mt. Carmel Center on the fourth Thursday of the month, 7:00pm, exactly one week following the General Assembly meeting most months. Any and all club members are encouraged to attend!





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## BEN ELICK INTERVIEWED BY LOCAL RADIO HOST SCOTT SIMON

By Steven Wade Veatch

Ben Elick, a Colorado Springs Mineralogical Society teen Earth Science Scholar, recently was interviewed by Keith Simon at the studios of KCME 88.7 FM and Jazz 93.5 FM. Ben spent the morning talking about the Pikes Peak Pebble Pups and his upcoming lecture on March 12 on Repeat Photography at the Western Museum of Mining and Industry. Ben's program starts at 7 o'clock pm in the museum's library. Ben first joined the pebble pup group when he was 9 years old.



Pikes Peak Pebble Pup and Earth Science Scholar Ben Elick (R) being interviewed by Scott Simon (L) while at the studios of KCME. Ben's interview will air in March on KCME and Jazz (93.5). Photo by Jamie Briem-Martinez.



## PEBBLE PUPS CORNER



### CSMS Pebble Pups & Earth Science Scholars

The Earth Science Scholars & Pebble Pups meet at the Mt. Carmel Veterans Center every THIRD Thursday at 5:30 PM until 6:15 PM or so. We only meet during the academic year, and we include January. So, it is Sept through May. Special announcements and field trips are noted on our blog: <http://pebblepups.blogspot.com> and through the CSMS website:

<http://www.csms1936.com>

### SET OF NORTH SEA CORES STUDIED BY PIKES PEAK PEBBLE PUPS

By Steven Wade Veatch

On Saturday, February 16<sup>th</sup>, a joint session of the Colorado Springs Mineralogical Society Pebble Pups and the Lake George Gem and Mineral Club Pebble Pups met at the Woodland Park Library to study a set of cores drilled from the floor of the North Sea. Nine Pebble Pups were in attendance, along with several adult members who were interested in the cores.

John Rakowski, a Lake George Pebble Pup leader, presented the session and worked with the Pebble Pups during the morning class. John talked about petroleum exploration and the use of cores drilled from sedimentary rock. John discussed the resistivity differences of sandstone wet with water versus sandstone with gas in the pore system. He explained the concepts of porosity and permeability and showed how the well log's sonic velocity readings can be used to derive porosity. The Pebble Pups learned about many things, including careers in geology.





**(BELOW)** Lake George Gem & Mineral Club Pebble Pup Director John Rakowski discusses the origins and formation of the North Sea-area sandstone.



**(BELOW)** A group of Pebble Pup scholars get hands-on experience during the presentation.



The cores were sent to the Pebble Pups through the North Sea Core Initiative, a program set up in response to the release of core material by oil and gas companies through the relinquishment, abandonment and decommissioning of fields along the UK Continental Shelf. Core material provides an incredible resource for understanding the subsurface and is invaluable to geologists. Both clubs helped pay the costs of transporting the cores to the Pebble Pup classroom from Aberdeen, Scotland.

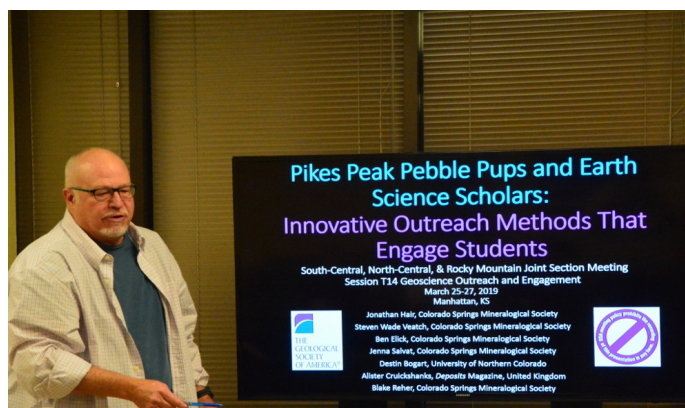


All photos courtesy of Bernadette Hair



Thursday, Feb 21, 2019 Earth Science Scholar, Jonathan Hair, used our February meeting to practice his presentation which he will be delivering at the South-Central, North-Central, & Rocky Mountain Joint Section Meeting Session T14 Geoscience Outreach and Engagement to be held March 25<sup>th</sup> in Manhattan, KS.

We are very proud to have such a mature 15 year old young adult represent us at this prestigious gathering. Jonathan's delivery was highly professional. We are pleased to be able to support him in his endeavors. We thank Steven Veatch for doing such an outstanding job in mentoring our Pikes Peak Peb-

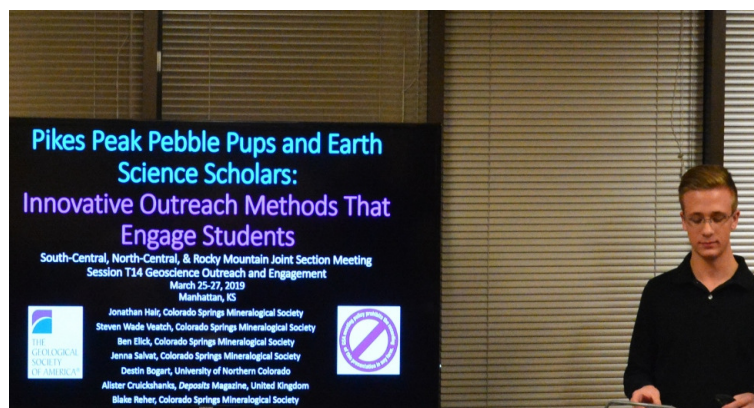


**(ABOVE)** Steven Wade Veatch introduces Jonathan Hair

**(BELOW)** CSMS President Sharon Holte presents Jonathan Hair with a check supporting his upcoming presentation in Manhattan, KS as Pikes Peak Pebble Pups Director, Steven Wade Veatch looks on.



All photos courtesy of Frank Rosenberg



**(ABOVE)** Jonathan Hair practices his upcoming presentation

**(BELOW)** CSMS Board Of Directors at February's Meeting





## 2019 CSMS OFFICERS

Sharon Holte, President

John Massie, Vice-President

Open, Secretary

Ann Proctor, Treasurer

Adelaide Bahr, Membership Secretary

Taylor Harper, Editor

Laurann Briding, Member-at-Large

Bill Arnson, Member-at-Large

Ernie Hanlon, Past President

## 2019 CSMS CHAIRPERSONS

John Massie, Program Coordinator

John Massie, Show Volunteer Coordinator

Mike Webb, Field Trip Coordinator

Steven Veatch, Science Fair Chair

Frank & Ellie Rosenberg, Librarians

Mark Schultz, Social Committee Chair

Ann Proctor, Store Keeper

Lisa Kinder, Show Chairman

Lisa Kinder, Webmaster

Lisa Kinder, Facebook Keeper

Mike Nelson, Federation Representative

TBD, Federation Representative

## SECRETARY'S SPOT

by Sharon Holte

## General Meeting Minutes for the Colorado Springs Mineralogical Society - 2/21/19

### CSMS General Assembly Meeting - February 21, 2019

The meeting was called to order by our president, Sharon Holte at 7:01 p.m. Two guests were introduced. John Massie introduced Steve Veatch. Steve introduced Jonathan Hair who gave his new presentation, "The Story of the Pikes Peak Pebble Pups", which he will present to the Geological Society of America in Manhattan, KS on Monday, March 25, 2019. It is titled "Geoscience Outreach and Engagement". Jonathan was practicing his presentation before presenting it in Manhattan. He did a wonderful job. He needs to cut it down from 23 minutes to 20 minutes and will practice the last half several times before presenting it again. Good Luck Jonathan and Steve!

We took a thirty minute break for goodies, drinks and socializing. About 45 members and guests were present. For the drawing, five mineral specimens were handed out. Laura Canini and Taylor Harper donated several mineral specimens for future drawings.

### ***We still need a secretary!!!!!!!!!!!!!!***

Officers: President, Sharon presented the Calendar of Deadlines., read over the new rules for the use of the Mt. Carmel meeting room. She also asked that the spreadsheets she presented for the needed meeting rooms be proofread by the satellite chairs. No corrections or additions were made. Further, the Denver Museum of Nature and Science sent us three micromount indexes. Steve Veatch said he could use one. One will be put into the library. Marge Regel said she does not need one. Sharon is going to call Dave Olson, our former micromount satellite leader to see if he wants one.

Sharon stated that we have been invited by the Western Museum of Mining and industry to use their facility. Maybe even help refurbish the Old Ore Building and use it for our meetings. Randy Hurley spoke and answered questions about this project. The membership voted to pursue discussions with WMMI. This would give us a home for quite some time, maybe 10 to 15 years.

Vice President, John Massie state we have Jenna Salvat as the speaker for March. No speaker for April, so far. Mike Nelson will speak in May. John has many feelers and emails out asking for speakers, and should have more about speakers at our next meeting.

Treasurer, Ann Proctor did not have a treasurer's report for the Board because the banks were closed.

Membership Secretary, Adelaide Bahr stated that we had 81 renewals, 7 new memberships and 2 new members at this meeting.

Bill Arnson, Member at Large reminded everyone to volunteer for the Pikes Peak Gem and Mineral Show. Setup is May 30. 8:00 a.m. The show is May 31, June 1 and 2. Break down is June 2, starting at 4:30 p.m. See John Massie, our volunteer coordinator to sign up.

Satellite groups: Crystal group Thursday, February 28. He has a DVD for the 2018 behind-the-show scenes Tucson Show. It is always interesting to see what everyone has found over the past year. Pebble Pups, Steve Veatch gave a short rundown about their recent activities. WMMI writing class was a success, the presentation at the Woodland Park library by John Rakowski covering the North Sea Cores was well attended and many questions were asked and answered. Steve stated that anyone attending the Pebble Pups field trips or meetings really needs to sign up. If they do not and he needs to cancel a trip like Rainbow Falls, they will not receive the necessary emails and maybe be sitting at the rendezvous waiting for a trip that was canceled. Fossil group, Jerry Suchan Tuesday March 5, at 7:00 p.m. the program will be by Ernie Hanlon. Jewelry group by Bill Arnson is still by appointment only. Please call him. Lapidary group by Sharon Holte is still by appointment only. Please call her after 6:30

*(Continued on page 9)*

## 2019 SATELLITE GROUP CHAIRPERSONS

Crystal, Kevin Witte/Bob Germano

Faceting, John Massie/Doreen Schmidt

Fossil, Jerry Suchan/Joyce Price

Jewelry, Bill Arnson

Lapidary, Sharon Holte

Pebble Pups, Steven Veatch/  
Betty Marchant

## 2019 CSMS LIAISONS

Florissant Fossil Beds  
National Monument, Steven Veatch

Western Museum of  
Mining & Industry, Steven Veatch

p.m. on Sunday evening. By then Sharon has checked the weather forecast for the next week and will know if it is warm enough to work in the lapidary shop. Lisa Kinder our website coordinator and show chairman was out ill. She is working on both and will give an update at the next meeting. Sharon spoke to Mike Webb, our Field Trip Coordinator. He is looking for an assistant. Sharon read the list of possible field trips and the dates. More to come later. Franks Rosenberg gave a brief status update on our new claims. All the paperwork is in order! Ellie Rosenberg described two new books that have been donated to our library. No unfinished business at this time. New business is our talks with WMMI.

The meeting was adjourned at 8:55 p.m.

Respectfully submitted by Acting Secretary, Sharon Holte

## Mark Your Calendars!!!

Warmer weather and "Digging Season" will be upon us soon, so make plans now to attend our annual show! If you're new to rock hounding and want to see some spectacular LOCAL specimens - some of which are dug less than 5 miles outside the city limits - then prepare to be amazed at what this small slice of Colorado has to offer!

Are you looking to proudly display some of your recent treasures? There is an Exhibit Application for the show on page 13 which also shows case dimensions which can be reserved now.

The deadline for reserving cases and exhibit spaces is May 22.

If you have any questions about availability or build-up + tear-down times please refer to [ppgmjshow@gmail.com](mailto:ppgmjshow@gmail.com) for further details!

56th Annual

# Pikes Peak Gem, Mineral, & Jewelry Show

*Featuring: Specimens of Colorado*



Fri., May 31, 2019, 12 pm-7 pm / Sat., June 1, 10 am-5 pm / Sun., June 2, 10 am-4 pm  
Adults \$5.00 / 3-Day Pass \$8.00 / Kids 12 & Under FREE

NORRIS-PENROSE EVENT CENTER, 1045 Lower Gold Camp Road, Colorado Springs, CO

Colorado Springs Mineralogical Society  
[csms1936.com](http://csms1936.com)

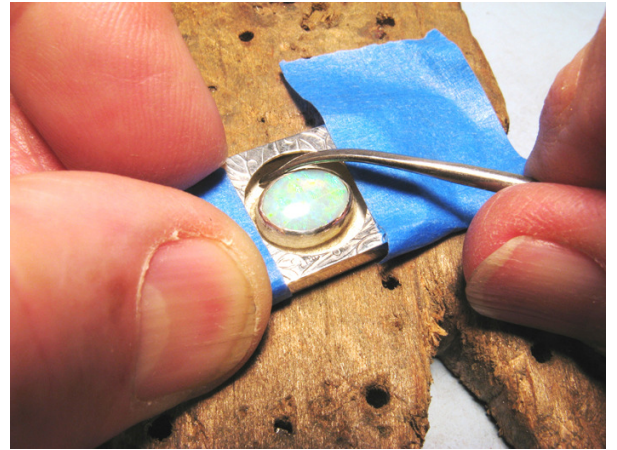
[PikesPeakGemShow.com](http://PikesPeakGemShow.com)  
[ppgmjshow@gmail.com](mailto:ppgmjshow@gmail.com)

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## BRAD'S BENCH TIPS

### PROTECTING FINISHED SURFACES

I figure that any accidental scratch I make on a piece means about 15 minutes of extra sanding and polishing. So after finishing major surfaces I typically cover them with some masking tape to avoid any scratches when doing final work like cleanups and setting of stones. The blue masking tape used by painters works particularly well because it doesn't leave a sticky residue.



### MAKING A TEXTURE HAMMER

An inexpensive hammer can be easily turned into a great texturing tool by grinding a pattern of narrow lines into its face. The tool I like to use to grind the pattern is a thin separating disc using a Foredom or Dremel. Be sure to hold the hammer and separating disc steady as you carve, and always wear safety glasses to protect your eyes! For the pattern to work well, a major part of the face needs to be ground away leaving only small areas of high points. This way the high points will have enough force to emboss the pattern into your sheet metal. My preference is to use small ball peen or cross peen hammers. They are quite inexpensive from tool dealers at swap meets and rock & mineral shows. There is no reason to buy an expensive hammer to experiment with while creating your own textures.



These are just a few of the many tips in the new book, "More Bench Tips for Jewelry Making" See a sample chapter at <https://amzn.to/2KCygh4>. Be More Productive With Brad's "How To" Books [Amazon.com/author/bradfordsmith](https://www.amazon.com/author/bradfordsmith)





## Colorado Springs Mineralogical Society

Post Office Box 2, Colorado Springs, CO 80901

[www.csms1936.com](http://www.csms1936.com)

2019

## APPLICATION FOR MEMBERSHIP

LAST	<input type="text"/>	FIRST	<input type="text"/>	MIDDLE	<input type="text"/>
SPOUSE	<input type="text"/>	Child (Name):	<input type="text"/>	Age:	<input type="text"/>
		Child (Name):	<input type="text"/>	Age:	<input type="text"/>
STREET	<input type="text"/>		CITY	<input type="text"/>	
STATE	<input type="text"/>	ZIP	<input type="text"/>	EMAIL	<input type="text"/>
CELL	<input type="text"/>		HOME	<input type="text"/>	

Have you previously been a member of the CSMS? YES ☐ NO ☐ WHEN

Do you want your name and contact information published in the CSMS Membership Directory, distributed only to members? YES ☐ NO ☐

My photo may be used in the CSMS Publication "Pick & Pack" Circle YES or NO.

	New / Continuing Members		New Members Only	
	Before Jan 31	After Jan 31	After June 30	Oct 1 – Jan following year
<input type="checkbox"/> Pebble Pup Membership (4 – 12 years old and parent is not a member)	<input type="checkbox"/> \$10.00	<input type="checkbox"/> \$15.00	<input type="checkbox"/> \$ 7.50	<input type="checkbox"/> \$10.00
<input type="checkbox"/> Junior (Membership (12 –17 year old and parent is not a member)	<input type="checkbox"/> \$10.00	<input type="checkbox"/> \$15.00	<input type="checkbox"/> \$ 7.50	<input type="checkbox"/> \$10.00
<input type="checkbox"/> Individual Membership (18 and over)	<input type="checkbox"/> \$25.00	<input type="checkbox"/> \$30.00	<input type="checkbox"/> \$15.00	<input type="checkbox"/> \$25.00
<input type="checkbox"/> Family Membership (2 adults & dependents under 18)	<input type="checkbox"/> \$35.00	<input type="checkbox"/> \$40.00	<input type="checkbox"/> \$20.00	<input type="checkbox"/> \$35.00
<input type="checkbox"/> Corporate Membership (entitles up to five (5) Individual Memberships)	<input type="checkbox"/> \$95.00	<input type="checkbox"/> \$100.00	<input type="checkbox"/> \$50.00	<input type="checkbox"/> \$95.00

<b>SATELLITE GROUPS</b> Please check ALL YOU MAY BE INTERESTED IN JOINING Fill out each year, please!!!			
PEBBLE PUPS <input type="checkbox"/>	FACETING <input type="checkbox"/>	LAPIDARY <input type="checkbox"/>	Other: <input type="text"/>
JUNIORS <input type="checkbox"/>	FOSSILS <input type="checkbox"/>	PHOTOGRAPHY <input type="checkbox"/>	
CRYSTAL <input type="checkbox"/>	JEWELRY <input type="checkbox"/>	OTHER <input type="checkbox"/>	
<b>VOLUNTEER OPPORTUNITIES ! VOLUNTEERS ARE WHAT MAKE OUR CLUB! Fill out each year!!!</b>			
GUEST SPEAKER <input type="checkbox"/>	FIELD TRIPS <input type="checkbox"/>	EDITOR/WRITING <input type="checkbox"/>	List any other things you may be willing to do:
CLUB OFFICER <input type="checkbox"/>	LOCAL ROCK SHOWS <input type="checkbox"/>	LIBRARY <input type="checkbox"/>	
HISTORIAN <input type="checkbox"/>	ARTIST/MEDIA <input type="checkbox"/>	REFRESHMENTS <input type="checkbox"/>	

I hereby agree to abide by the Constitution and By-Laws of the Colorado Springs Mineralogical Society [http://www.csms1936.com/wp-content/uploads/2017/02/Constitution and By Laws.pdf](http://www.csms1936.com/wp-content/uploads/2017/02/Constitution%20and%20By%20Laws.pdf) . I have read the membership information as well as the request and waiver for field trips on page 2. I understand that all members must sign a separate waiver at each field trip to participate. I agree to abide by the American Federation of Mineralogical Societies (AFMS) Code of Ethics. <http://www.amfed.org/ethics.htm>.

Signature of Primary Applicant or Guardian if Minor

Application Date:

Mail this form and your payment to: Colorado Springs Mineralogical Society, PO Box 2, Colorado Springs, CO 80901  
Membership Chair: Rev: 01/28/19

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## CSMS Application Page 2- Membership information page and Waiver/ Release to participate in Field Trips.

- Membership to CSMS is annual, from January 1<sup>st</sup> to December 31<sup>st</sup>. Membership dues **MUST** accompany this application, which **MUST** be filled out each year.
- Members must abide by the CSMS Constitution and By-Laws, located on the web at: [http://www.csms1936.com/wp-content/uploads/2017/02/Constitution\\_and\\_By\\_Laws.pdf](http://www.csms1936.com/wp-content/uploads/2017/02/Constitution_and_By_Laws.pdf)
- Members in good standing receive the following benefits: 10 electronic issues of the CSMS *Pick&Pack* newsletter, right to participate in all field trips (additional fees may be required on some field trips and members are responsible for all transportation to and from), participation in one or all Satellite Groups (some groups may request additional fees to help cover resource costs), free admission to the Western Museum of Mining and Industry, a year of learning and enjoyment, plus a lifetime of memories. The Pebble Pup program is a satellite program.
- Continuing memberships must pay full-year dues; a \$5 discount can be applied to renewals on or before January 31<sup>st</sup>. Anyone who has previously been a member **MUST** pay the full rate each year **REGARDLESS** of the time of the year they pay their dues.
- A person, family, or corporation joining the CSMS as a new member after June 30<sup>th</sup> shall pay half the yearly membership rate. A person joining CSMS as a new member after October 1<sup>st</sup> receives the rest of the current year plus the next year's membership. The partial year membership shall not apply toward the 25 year Lifetime Membership.
- Members who have paid their dues for 25 years will be awarded a Lifetime Membership on their 26<sup>th</sup> year. Lifetime Members receive all of the CSMS benefits and no longer have to pay the annual dues. Individual Memberships provided by Corporate Membership are excluded from Lifetime Status. Corporate membership grants up to 5 individual memberships and one yearly (10 issues) 3.5" x 2" advertisement in the CSMS Pick & Pack.

Release by Participants from Claims Arising By Virtue of Mineral Collecting  
Led By Field Trip Leader of the Colorado Springs Mineralogical Society,  
A Non-Profit Corporation – Member: Rocky Mountain Federation of Mineralogical Societies

I/we, the undersigned, hereby request permission to participate in mineral collecting led by the Field Trip Leader of the Colorado Springs Mineralogical Society, a non-profit corporation.

I/we know the risks and dangers involved in such activities and that unanticipated and/or unexpected dangers may arise during such activities.

I/we assume all risks of injury to my/our persons and properties that may be sustained in connection with the stated and associated activities in and around the premises.

In consideration of the permission granted to me/our participation in the stated activities, I/we hereby for myself, my heirs, administrators, and assigns release to the Colorado Springs Mineralogical Society and the Rocky Mountain Federation of Mineralogical Societies, and their representatives, servants, agents, officers and officials and all other participants in the stated activities of and from all claims, demands actions and causes of actions of any sort, for injuries sustained to my/our person and/or property during my presence on the premises and participation in the stated activities due to negligence or any other fault.

**The Colorado Springs Mineralogical Society  
Pike's Peak Gem & Mineral Show  
May 31-June 2, 2019  
Norris Penrose Indoor Event Center, 1045 Lower Gold Camp Rd,  
Colorado Springs, CO.**

**Request for NON-COMPETITIVE Display Space**

**Name:**

**Society:**

--	--

**Address:**

--

**Phone:**

**Email:**

--	--

**City:**

**State:**

**Zip:**

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**Exhibitors are urged to bring their own cases. A limited number of club cases are available upon request. Exhibitors using club cases will need to furnish any risers, linings, padlock or accessories as needed. EACH CASE WILL BE LIMITED TO 150 WATTS.**

**Describe Display or Displays:**

--

<input type="checkbox"/>	<b>I will bring my own display</b>	<b>Your case length</b>	<b>#of cases</b>
<input type="checkbox"/>	<b>I will need a case*</b>	<b>Case size desired</b>	<b>#of cases</b>

\* CSMS cases are approximately 36" by 24" outside measurements. A few 4-foot cases are generally available. There is a hasp on the case that accepts an exhibitor-supplied padlock.

Setup is from 12 PM to 7 PM on Thursday May 30 or 8 AM to 12 PM on Friday before the show opens. Note new show hours for Friday. Tear down is 4 PM to 9 PM on Sunday.

Please note by checking for eligibility for case judging: (details next page)

This is a Pebble Pubs Case \_\_\_\_\_

Case eligible to be judged for the Chris Christensen Award \_\_\_\_\_

**Signature of Non-Competitive Exhibitor:** \_\_\_\_\_

With the signing of this request, email submission of this document or showing up with an exhibit, it is mutually agreed that the Colorado Springs Mineralogical Society and the Norris Penrose Indoor Event Center shall not be liable to any exhibitor for damage, loss or destruction of any exhibit or injury to his person for any cause and all claims for injury are expressly waived by the exhibitor.



Please return via mail or email by  
May 22 to reserve a case and exhibit space.  
After May 22 exhibitors are still welcome  
based upon availability of cases and space.

RETURN TO: Bob Landgraf  
304 Palmer Trail  
Manitou Springs, CO 80829  
719-685-1364  
rmlwp74@aol.com

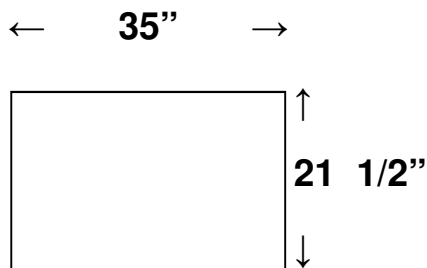
Details on case judging...there are **THREE** awards that may be given for exhibits at the 2019 show:

1. The People's Choice award based upon a tally of the public entering their votes for the case they liked best.
2. The Pebble Pups award for best judged Pebble Pups Case. Must have two or more entries for Pebble Pups entries to be judged.
3. Chris Christensen award for the best-case containing specimens that were either field collected by the exhibitor or self-made by the exhibitor. Exhibit must not have been used as a prior competitive exhibit. Must have two or more qualifying entries for this category to be judged.

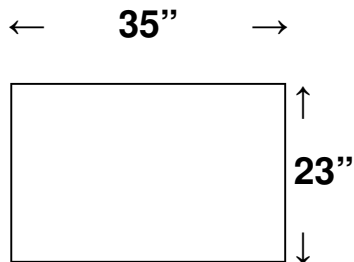
### The Colorado Springs Mineralogical Society Case...

All measurements are inside measurements. However, since all cases are handmade there may be some slight variations in actual size. Be sure to bring any necessary tools required to make adjustments to your liners.

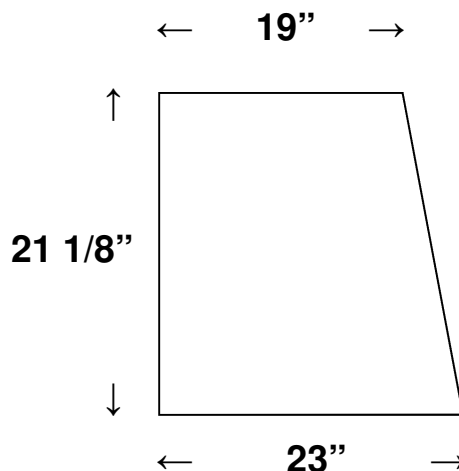
#### BACK



#### BOTTOM



#### SIDES



### Our Staff...

#### Taylor Harper—Editor

We encourage everyone to submit articles, photos, illustrations or observations.

Share your experiences, your new finds, or simply your experience at our last field trip.

Handwrite it, type it, or email it. Format does not matter. All submissions are welcomed. The DEADLINE for items to be included in the next Pick & Pack is the **20th of the preceeding-month**

To submit an item:

For hardcopy photos or articles, mail to the address below or bring them to the General Meeting. All hardcopy photos remain the property of the submitter and will be returned. Electronic photos should be submitted at resolutions above 200 dpi in TIF, BMP, JPG, or PIC format.

**Articles are preferred in Word.**

Editor will correct font.

E-Mail to:

[csmseditor@hotmail.com](mailto:csmseditor@hotmail.com)

Mail to:

Pick & Pack Editor

PO Box 2

Colorado Springs, CO 80901

The PICK&PACK is published ten (10) times per year (no issues in January or August).

Unless otherwise marked, materials from this publication may be reprinted. Please give credit to the author and CSMS PICK & PACK.

### CSMS

**T-Shirts, Badges, and Pins** are available for sale.

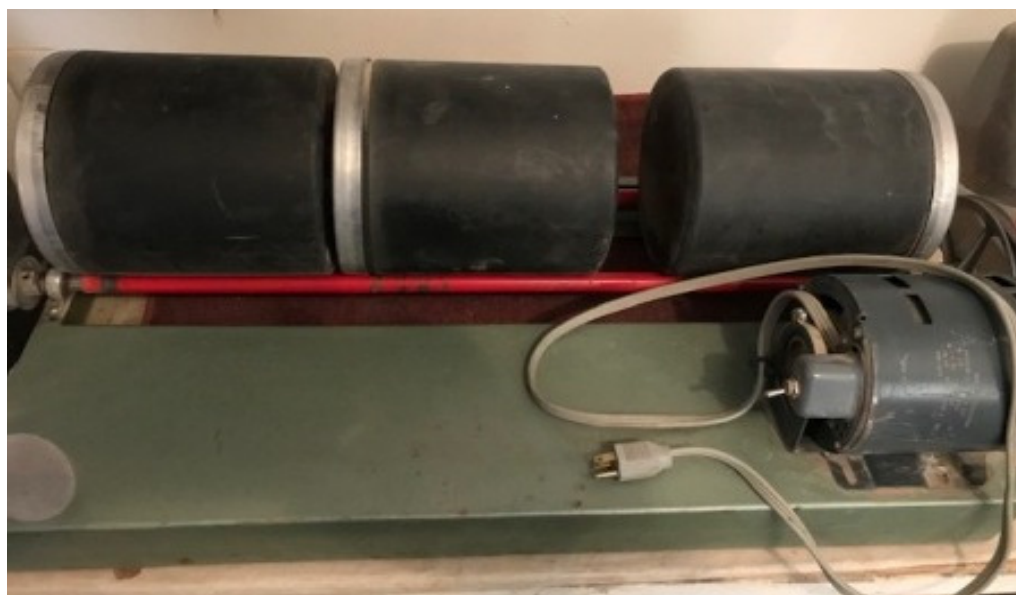
If you celebrated a CSMS anniversary in 2017 or 2018, you are eligible for your one year pin award!

Please see Storekeeper,

**Ann Proctor**

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(BELOW) Lortone C33B two drum tumbler, 6 lbs total capacity. Like new, used twice! \$75.00 OBO



(ABOVE) Lortone C300-12 three barrel, large capacity 12 lbs per barrel. Purchased at estate sale, runs quietly, interior of barrels is very good no cuts. Asking \$300.00 OBO. Selling for health reasons. Thank you!

**Call David Springer @ 719-289-4718 or 719-647-1798**



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**CSMS is an incorporated nonprofit organization with these goals:**

To promote and disseminate knowledge of the earth sciences, especially as they relate to mineralogy, lapidary, and fossils.

To encourage study, collection, and fashioning of minerals.

To accomplish the same through social meetings, lectures, programs, displays, shows, and field trips.

The Pick & Pack is published 10 times each year to assist and promote the above.

**Joining the Colorado Springs Mineralogical Society (CSMS):** Meetings are held the **third (3rd) Thursday of each month**, except January & August, **7:00 p.m.**, at Mt. Carmel Center of Excellence, 530 Communication Circle, Colorado Springs, CO 80905. (Starting (9/21/2017) **Visitors are always welcome.**

CSMS also offers Satellite Group meetings that allow more focused attention in specific areas of our members' interests. Our current Satellite Groups consist of the following: Crystal Study Group, Faceting Group, Fossil Group, Jewelry Group, Lapidary Group, and Pebble Pups/Juniors. For details on Satellite Group meetings, check out the calendars on page 2 and the web site.

Yearly dues include 10 issues of the *PICK&PACK*, all field trips (additional fees may be required on some field trips, and members are responsible for all transportation to and from), participation in all Satellite Groups (some groups may request additional fees to help cover resource costs), free admission to the *Western Museum of Mining & Industry*, a year of learning and enjoyment, plus a lifetime of memories.

Individuals—\$30, Family—\$40, Juniors—\$15, Corporate—\$100, \*\*\*\*\*Application is on the web site.

If you are interested in joining CSMS or would like more information, we encourage you to attend our next General Meeting or visit our web site: [www.csms1936.com](http://www.csms1936.com)

**Colorado Springs Mineralogical Society is a Member of the following organizations:**

American Federation of Mineralogical Societies (AFMS)

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

Rocky Mountain Federation of Mineralogical Societies (RMFMS)

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