



THE BULLETIN OF THE COLORADO SPRINGS MINERALOGICAL SOCIETY Published Since 1960

Colorado Springs  
Mineralogical Society  
*Founded in 1936*

June 2015  
**PICK&PACK**

Vol 55 ..... Number 5

## **CSMS General Meeting**

**Thursday, June 18th, 7:00 PM**

**This month's speaker is Dr. Leonard Himes**

**Topic: Minerals and their Names**

**Refreshments provided by the Crystal Group**

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### **June General Meeting Guest Speaker**



Leonard Himes began collecting minerals in the fifth grade, something not easy to do when you live in Florida. By high school, he was winning State Science Fair awards in geology and field collecting wherever summer travel allowed. He decided to major in chemistry at Florida State University rather than geology because so many of the geologists he knew were pumping gas or doing something similar for a living. After graduating, he taught high school chemistry in Orlando. To supplement his income, he learned to find and dig specimens during the summer and wholesale them to rock shops. Of course, that started a collection of field collected minerals, the only personal collection he has today.

He started Minerals America in 1973 and was soon retailing at local shows on weekends, mainly in the Southeast, but later all across the United States. In 1992, he began a Ph.D. program in chemistry at the University of Northern Colorado, finishing in 2001 after retiring from teaching high school in 1996. Since then, he has been working full-time as a mineral dealer, enjoying the freedom provided by self-employment and having the time to visit collectors from coast to coast.

He continues to field collect, operate a lab for mineral specimen preparation and repair, appraise collections, and provide other collection consulting services. On his website ([www.lhimesfineminerals.com](http://www.lhimesfineminerals.com)) there are separate detailed pages for each of his activities as well as galleries of photos of specimens currently in his inventory and specimens he has placed in private or museum collections.

## CSMS Calendar

### June 2015

Thu., **June 4**—**Board Meeting**, 7 p.m., Senior Center.

Tue., **June 9**—**Fossil Group**, 7 p.m., Senior Center. Jerry Suchan 303 648-3410

**Micromounts**, 7 p.m., Senior Center. Dave Olsen, 719 495-8720

Thu., **June 18**—**General Assembly**, 7 p.m., Senior Center.

**Pebble Pups & Juniors**, 5:30 to 6:15 p.m., Steven Veatch, 719 748-5010

**No Meetings**—**Crystal Group**, Kevin Witte, 719 638-7919

**Jun, Jul, Aug**—**Faceting Group**, Paul Berry, 719 578-5466

**Jewelry Group**, Appointment Only, Bill Arnson, 719 337-8070.

**Lapidary Group**, Appointment Only, Sharon Holte, 719 217-5683

### July 2015

Thu., **July 2**—**Board Meeting**, 7 p.m., Senior Center.

Tue., **July 7**—**Fossil Group**, 7 p.m., Senior Center. Jerry Suchan 303 648-3410

**Micromounts**, 7 p.m., Senior Center. Dave Olsen, 719 495-8720

Thu., **July 16**—**General Assembly**, 7 p.m., Senior Center.

**Pebble Pups & Juniors**, 5:30 to 6:15 p.m., Steven Veatch, 719 748-5010

**No Meetings**—**Crystal Group**, Kevin Witte, 719 638-7919

**Jun, Jul, Aug**—**Faceting Group**, Paul Berry, 719 578-5466

**Jewelry Group**, Appointment Only, Bill Arnson, 719 337-8070.

**Lapidary Group**, Appointment Only, Sharon Holte, 719 217-5683

The Senior Center is located at **1514 North Hancock** in Colorado Springs. For more information on any of the sub-groups, meetings, and other CSMS valuable information, go to our website, [csms.us](http://csms.us)

## Other Events of Interest to CSMS Members

**Thurs., June 4**, 3:00 p.m., DMNS Earth Science Seminar, ".**"Shiver me timbers! A look into the bones of high-latitude seabirds"**, by Laura Wilson, Fort Hays State Univ., Kansas. Free lecture, is museum admission not required.

**Fri., June 5**, 3:00 p.m., DMNS Earth Science Seminar, "**Birth of huge rivers: The Rocky Mountains' impact on the filling of the Gulf of Mexico**", by Bill Galloway, Univ. of Texas. Free lecture, is museum admission not required.

**June 5-7, Pikes Peak Gem and Mineral Show**, at Western Museum of Mining & Industry, Colorado Springs; 9-5 Fri. & Sat., 9-4 Sun.; adult admission to show & museum is \$5. Sponsored by the Colorado Springs Mineralogical Society; theme is "Topaz from Around the World". We'll have a USGS booth here at the show all weekend (come say hello!), featuring education about rocks & minerals.

**June 11-14, "Contin-Tail at Fairplay"**, a new "rock swap" type rock & mineral show; see [www.coloradorocks.org](http://www.coloradorocks.org) or [gregtunncliff@yahoo.com](mailto:gregtunncliff@yahoo.com)

**Sun., June 14**, "The June meeting of the **Florissant Scientific Society** will be an adventure into human history and use of nature. John Anderson, former sheriff of El Paso County, will present his research on Culturally Modified Trees. We will meet at Fox Run Park, at the Roller Coaster Road Trail head, Colorado Springs, where there is a lovely picnic area, a restroom, and easy hiking (walking) trails. Meet at 12:00 for lunch." "I'll work with Vince Matthews to organize our annual two-day (3-day) jaunt into north central Colorado with overnight accommodations somewhere near Steamboat Springs—Beth Simmons, [cloverknoll@comcast.net](mailto:cloverknoll@comcast.net)."

(Continued on page 10)

## Show Business

The Pikes Peak Gem, Mineral & Jewelry Show (PPGM&JS) is this weekend and there's still a little more to be done!

- We need a few more volunteers for show set up, marking the lots, manning the silent auction and identifying specimens.
- We are accepting donations for a silent auction, to be held all three days of the PPGM&JS. If you would like to donate specimens, please bring your donation(s) to the Show, along with a completed **PPGM&JS Silent Auction Bid Form** for each mineral. The form can be found on the CSMS share drive by clicking this link: <http://1drv.ms/1PXV23e>. (There are three forms to a page.) If you are not able to print the form, there will be a limited number available at the Show. Also, please prepare a label with the pertinent information (name, locale, etc.) to be given with the specimen.
- If you are interested in setting up a mineral display inside the WMMI, please complete the form, found on the share drive at <http://1drv.ms/1G0K1bb> and return it to Kim at [runninboar@hotmail.com](mailto:runninboar@hotmail.com) or the mailing address on the form.
- There will be a vendor potluck dinner on Saturday, June 6, after the show. Please provide a dish of food to share with the vendors and other club members. **If you're not able to attend the potluck but would like to prepare a dish, Norma Alexander has offered to pick up and deliver your dish. If you would like to make arrangements with Norma, please call or text her at 719-229-5379.**

If you have questions or are able to volunteer, please contact Kim Packham at [runninboar@hotmail.com](mailto:runninboar@hotmail.com).



**WESTERN MUSEUM OF MINING AND INDUSTRY**  
**225 NORTHGATE BLVD, I-25 EXIT 156, COLO. SPGS. CO**

**THE PIKES PEAK GEM,  
MINERAL & JEWELRY SHOW**

**JUNE 5th - 7th, 2015**  
**FRIDAY & SATURDAY 9-5, SUNDAY 9-4**

**COME MEET JOE DORRIS  
& RICH FRETTERD  
FROM THE PROSPECTORS**

**ADMISSION  
TO SHOW AND MUSEUM:  
\$5.00 ADULTS  
KIDS 12 AND UNDER  
FREE!!!**

**SEE THE RUNNING  
1928 OSGOOD STEAM  
SHOVEL, WORKING  
BLACKSMITH SHOP  
and STAMP MILL**

**SPONSORED by COLORADO SPRINGS MINERALOGICAL SOCIETY  
WESTERN MUSEUM OF MINING and INDUSTRY and CRIPPLE CREEK & VICTOR GOLD MINING CO.**

**[runninboar@hotmail.com](mailto:runninboar@hotmail.com)** **[www.csms.us](http://www.csms.us)**



## REPORT FROM TUCSON 2015 (Part 2)

by Mike Nelson csrockguy@yahoo.com

Thursday, February 12, was the opening day of the 61<sup>st</sup> Tucson Gem & Mineral Show---the "main show"---held at the Tucson Convention Center. The show theme for 2015, *Minerals of Western Europe*, brought a number of exhibitions featuring fine minerals from a variety of localities, as well as European dealers and their wares. The following photos represent only a small portion of the many minerals in display exhibitions and dealer cases.



Bowl: Brazilian agate, ca. 1970,  
Idar-Oberstein, Germany.



A Native American "Spirit Doll"  
with gemstone adornments.



A great pyromorphite from the Las Ferges  
Mine, France.



A variety of specimens from localities in western  
Europe.



Great Norwegian silver from the famous  
Kongsburg District.

(Continued on page 5)



More silver from Kongsburg.



There is always gold at the Tucson Show. This is the eight pound *Thunderbolt* collected from western Australia.



Sulfur crystal from Sicily.



The star of the Show: topaz collected by Rich Fretterd (as seen on *The Prospectors* TV show) from pegmatites around Pike Peak. The stone on the left is a piece of 1345.25 ct. billed as the largest faceted topaz from the USA.



More topaz from the Pikes Peak pegmatites. For a great story, and many photos, of the topaz see [www.spiriferminerals.com](http://www.spiriferminerals.com).



Mimetite from the Cumbria District, England.

(Continued on page 6)





Brazilian Amethyst and Calcite



Spectacular!



Come to Arizona and see Bisbee azurite!



Beautiful rhodochrosite and fluorite from China.



The geode crackers are always popular.

I spent most of Thursday at the show and was simply overwhelmed, as usual, with the many cases and specimens. It was a great day!

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Below is the proposal to change the CSMS Constitution and By-Laws, that Yam presented at the May General Meeting. Please review the proposal and be prepared to present your questions, suggestions, objections and/or vote at the June General Assembly Meeting.

## **PROPOSED CHANGES TO THE CONSTITUTION AND BY-LAWS OF THE COLORADO SPRING MINERALOGICAL SOCIETY PROVIDING FOR A NEW LEVEL OF MEMBERSHIP – PFL (PAID FOR LIFE) MEMBER.**

Be it Resolved:

The Society Constitution shall be changed to create a new level of membership: PFL (Paid for Life) Member.

### **Constitution:**

#### Article III – Membership

F. PFL (Paid for Life) Member - Those Members (individual), as Regular Members or as an adult member in a Family Membership, who have met the responsibility of paying the amount determined to compensate the Society for the full 25 (twenty-five) years of membership. Children in Family Memberships must establish their own individual or new family membership to avail themselves of this level of membership. PFL Membership grants full privileges of the Society in regard to voting, and holding office.

Be it further Resolved:

The By-Laws of shall be changed to reflect the creation of a new level of membership: PFL (Paid for Life) Member.

### **By-Laws:**

#### Article IV – Quorum

Section 1. Shall be revised as follows:

A quorum shall consist of a minimum of twenty-five (25) Regular members, members of a Family membership, Junior members, members covered under a Corporate Membership, Lifetime Members and/or PFL Members present for any General Assembly meeting.

#### Article V – Dues

Section 2. Shall be revised by adding the following:

PFL (Paid for Life) members shall make a one-time membership payment by computing the 25 years of full Regular Membership less paid years of membership to date times 70 percent of the current annual Regular Membership dues. Thus a member who has been such for seven (7) years based on dues rate of \$30.00 per year for a Regular Member (rate for 2015) would pay for eighteen (18) years of additional membership. This would be calculated as follows: 18 years X \$30.00/year X 0.70 = \$378.00.



# Radio Wave Powered Crystal Radio

by Jack Shimon

CSMS Pebble Pups / Pikes Peak Pebble Pups

On my Grandpa's last visit he brought a crystal radio kit (Borden Radio Company) that we had fun building together. It used a razor blade and pencil lead detector ("foxhole" crystal). I was curious how other crystals would work and with my Dad and Grandpa's help turned the idea into my science fair project which you can read about.

**Purpose:** Build a crystal radio powered only by radio waves and compare different crystal detectors including iron pyrite, steel galena, hot argentiferous galena, and a razor blade and pencil lead detector ("fox-hole" crystal) to modern diode detectors

**Hypothesis:** The modern diodes will give the biggest signal and sound the best in the crystal radio because they were created using today's technology.

### Materials:

Cornell WWII Fox-Hole Crystal Radio Set including earpiece and blued steel razor blade and pencil lead crystal  
1N34A germanium diode  
1N4007 silicon diode  
iron pyrite crystal  
steel galena crystal  
hot argentiferous galena crystal  
cat's whisker crystal stand  
75 foot 14 gauge stranded copper antenna wire  
Copper ground wire  
Battery powered portable speaker  
Fluke 77 digital multi-meter  
Assorted clip leads  
Scrap wood blocks, wood screws, and electrical clips for mounting diodes and razor blade and pencil lead crystal

Radio kit, antenna, and crystal materials were purchased from Borden Radio Company <http://www.xtalmann.com/>

### Procedure:

Build fox-hole crystal radio following kit directions leaving lead wires in place of razor blade detector  
Mount razor blade and pencil lead detector and modern diodes on separate wood blocks

Place antenna outside, suspend from a high tree using string

Connect ground wire to house outlet (adult help needed)

Connect antenna, ground wire, and powered speaker to radio

Using germanium diode crystal, tune in strongest radio station using tuning wiper

For each crystal detector to be tested:

Attach crystal and listen with powered speaker (adjust cat's whisker or pencil lead position for maximum sound)

Disconnect powered speaker and listen with earpiece

Disconnect earpiece and record 6 voltage measurements in millivolts [mV] using multi-meter

### Variables staying the same:

Radio station, tuning wiper position

Time of day and radio program

Antenna position

Radio circuit except crystal

(Continued on page 9)



## Variables changing:

Crystal detector type:

germanium diode

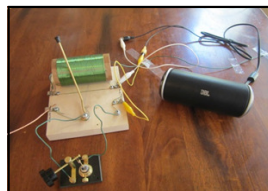
silicon diode

iron pyrite crystal

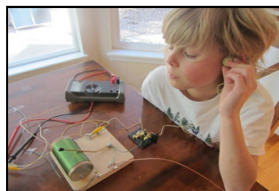
steel galena crystal

hot argentiferous galena crystal

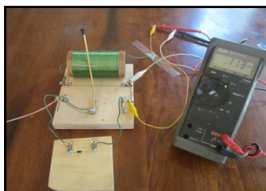
fox hole crystal (blued steel razor blade and graphite pencil lead)



Speaker observation



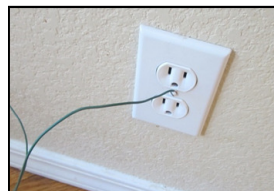
Earpiece observation



Measurement set-up

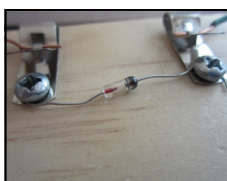


Antenna

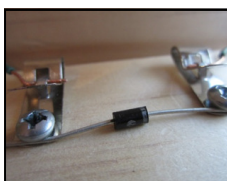


Ground connection

## Crystal Detectors



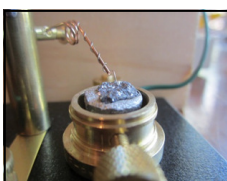
Germanium Diode



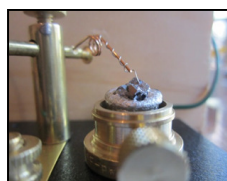
Silicon Diode



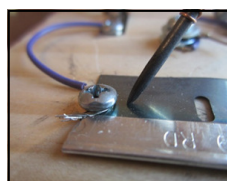
Iron Pyrite



Steel Galena

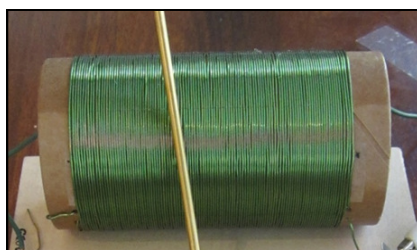


Hot Argentiferous Galena

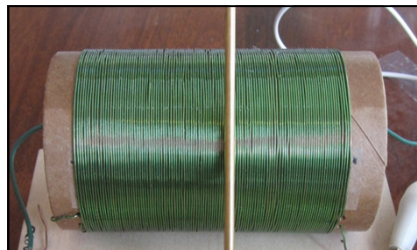


Razor Blade and Pencil Lead

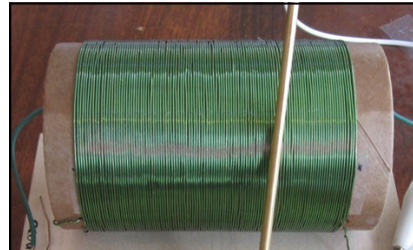
**Results:** Three radio stations were found at the wiper positions shown. AM 740 KVOR in Colorado Springs was strongest and was used for the experiment.



AM 740 KVOR  
Colorado Springs



AM 850 KOA  
Denver



AM 1040 KCBR  
Colorado Springs

## Observations

Crystal	Sound in Speaker	Sound in Earpiece	Other Observations
Germanium Diode	- super loud, very clear	- scratchy, can't make out sounds or words when connected by itself - earpiece works when speaker is also connected	- no adjustment needed
Silicon Diode	- loud and clear	- very faint sound and scratchy when connected by itself - earpiece works when speaker is also connected	- no adjustment needed
Hot Argentiferous Galena	- pretty loud and clear	- good sound, clear	- cat whisker is "fiddly"
Steel Galena	- medium loud and clear	- good sound, clear	- cat whisker is very "fiddly"
Iron Pyrite	- medium loud and clear	- soft but clear	- cat whisker is "fiddly"
Razor Blade and Pencil Lead	- faint sound	- very soft sound	- most "fiddly" of all, hard to keep working

(Continued on page 11)

## Other Events of Interest to CSMS Members—continued

**June 19-21, “Dinosaur Train” comes to Dinosaur Ridge.** “Based on the television program Dinosaur Train™, an officially licensed event with characters, music and themes from educational show will be held at the Dinosaur Ridge Visitor Center. Activities will be directed at 2 to 7 year olds but siblings and adults can play and ride along too.” For more information see [www.dinoridge.org](http://www.dinoridge.org).

**Sat., June 20, 9 a.m. to 3 p.m., “GEOdyssey’s annual inventory reduction sale”,** 15339 W. Ellsworth Drive, Golden, CO 80401. “Lots of new mineral and fossil specimens from around the world. All specimens are a minimum of 10% off, with bigger discounts for volume purchases. We'll have many new specimens priced at 50% off. Drinks and snacks provided. See [www.geodysey-rocks.com](http://www.geodysey-rocks.com). Directions: from West 6th Avenue, exit onto Indiana Street and go south on Indiana. Drive into Mesa View Estates. Turn right at the first street (McIntyre Circle) and right at the next street (Ellsworth Drive). We are about midway down the street on the left. Thanks, Pat & Zelda Tucci, GEOdyssey.”

**June 21, “Geology Train” on Cumbres & Toltec Scenic Railroad, Antonito, CO.** “On June 21st, join a cadre of distinguished geologists for a truly extraordinary day on the Cumbres and Toltec Scenic Railroad! Explore the Toltec Gorge Rock as you've never seen it before. Walk through Rock Tunnel and then photograph the train as she comes through the tunnel. Receive a mile by mile Geologic Rail Log. This special train will stop at many outcrops and rail cuts along the right of way, to mingle, marvel and collect photographs, samples and experiences only accessible on the train route.” For details see <http://cumbrestoltec.com/geology-train/>. [Cost is approximately \$161.]

**Fri-Sat-Sun, July 10, 11 & 12, Home Rock Sale, by John Haney,** 10:00 AM -- 6:00 PM daily; 303-296-8268, [rock-sisme@comcast.net](mailto:rock-sisme@comcast.net), John Haney, 4246 Thompson Court (South of I - 70 & East of York St.), Denver, CO 80216. “200 plus types of rough rock & slabs including amber, copal, enhydros & geodes, gemstone bowls & boxes, designer cabochons, crystals & turquoise, lapidary equipment & supplies, Oscar Branson turquoise books.”

**July 10-12, Durango, CO Gem and Mineral Show,** La Plata County Fairgrounds, sponsored by Four Corners Gem & Mineral Club; 10 a.m. – 6 p.m. Fri. & Sat., 10-5 Sun. Free admission..

**July 10-13, Gunnison Mining & Minerals Symposium,** sponsored by the Friends of the Colorado School of Mines Geology Museum. Hosted (including lodging) at the campus of Western State Colorado University, Gunnison, CO. The symposium will include a dinner and keynote speaker on “Mining History of the Gunnison Country”, Friday evening; talks presented on Saturday about mining, geology, and mineralogy of the Gunnison area; and a choice of 3 field trips on Sunday and for those who can stay, on Monday also (so each participant will be able to go on any 2 out of 3 possible field trips). Full information including registration, speaker program, and field trip details will be available very shortly; the best way to see this is to go to the Friends of the CSM Geology Museum facebook page (anyone can access this, you do not have to be a facebook user), <https://www.facebook.com/LikeCSMGeoMuseum?fref=ts>

**July 16-18, Rocky Mountain Federation of Mineralogical Societies Convention and Mineral and Gem Show, Cody, Wyoming.**

**July 31-Aug. 2, Creede Rock & Mineral Show;** 10 a.m. – 5 p.m., free admission; at the Underground Mining Museum, Creede, CO. See [www.creederocks.com](http://www.creederocks.com).

### The Gravel Pit

- ♦ We are looking for a volunteer to lead the trip to Joe Dorris' Smoky Hawk Claim on Thursday, July 23rd. If you are interested, please contact Sharon Holte, at [sharonrocksco@gmail.com](mailto:sharonrocksco@gmail.com).
- ♦ Bureau of Land Management Meetings to discuss the future of rock hounding will be held on June 2, in Walsenburg, and June 3, in Canon City. For more information, please contact Sharon Holte at [sharon-rocksco@gmail.com](mailto:sharon-rocksco@gmail.com)
- ♦ Fine mineral collector, Leonard Himes, will hold an open house on Friday and Saturday, June 5-6, from noon until 4:00 P.M. For more information, contact Leonard at [leonardhimes@aol.com](mailto:leonardhimes@aol.com) or 719-359-3076.

## Raw Signal Voltage Data

Crystal	Reading 1 [mV]	Reading 2 [mV]	Reading 3 [mV]	Reading 4 [mV]	Reading 5 [mV]	Reading 6 [mV]	Average [mV]
Germanium Diode	439	428	429	433	428	490	441
Silicon Diode	302	307	312	306	290	326	307
Hot Argentiferous Galena	232.5	233.1	234.4	232.4	235.8	233.8	234
Steel Galena	130.6	128.1	138.9	138.8	137.2	136.7	135
Iron Pyrite	60.5	58.3	59.8	58.8	59.6	58.2	59
Razor Blade and Pencil Lead	17	16.6	16.7	14.7	16.4	17.2	16

(Continued on page 12)

### 2015 CSMS Officers

**Mark Lemesany, President**  
**Jean Miller-Luce, Vice President**  
**Melanie Glascoe, Secretary**  
**Ann Proctor, Treasurer**  
**Lisa Kinder, Editor**  
**Ariel Dickens, Membership Secretary**  
**Doreen Schmidt, Member-at-Large**  
**Yam Yamiolkoski, Member-at-Large**  
**Roger Pittman, Past President**

### 2015 CSMS Chairpersons

**Kim & Bodie Packham, Show Chairs**  
**Sharon Holte, Field Trip Director**  
**TBD, Science Fair Chair**  
**Frank & Ellie Rosenberg, Librarians**  
**Georgia Woodworth, Social Committee**  
**Ann Proctor, Store Keeper**  
**Jackson Pierce, Webmaster**

### Sub-Group Responsibilities for Refreshments for General Assembly Meetings

<b>Feb. Jewelry</b>	<b>Mar. Lapidary</b>	<b>Apr. Micromount</b>
<b>May Board</b>	<b>June Crystal</b>	<b>July Faceting</b>
<b>Aug. Picnic</b>	<b>Sept. Fossil</b>	<b>Oct. Jewelry</b>
<b>Nov. Lapidary</b>	<b>Dec. Christmas Party</b>	

### SECRETARY'S SPOT by Melanie Glascoe

### Minutes of the Colorado Springs Mineralogical Society General Meeting May 21, 2015

The meeting was called to Order at: 7:00 PM, by Mark Lemesany – President / Followed by the Pledge of Allegiance.

Program for the Evening: Buying Jewelry and Gems on Vacation by Jennifer Farnes, Master Faceter and owner of Revolution Jewelry Works.

#### Other Business:

- The minutes of the April General Meeting, as they appeared in the May Pick & Pack, were accepted and approved as amended.
- Group Announcements were made as usual. Important items of note were that the Lapidary equipment is now available for use at Frank and Ellie Rosenberg's house by appointment.
- An announcement was made advising members that the Club library list was available on the CSMS website.
- Kim Packham, the show organizer, updated the members about this year's Gem and Mineral show. She discussed the media outlets that we have advertising the show. A request for volunteers was made for show set up on Thursday 6/4/15 in the morning, to set up tables and chairs and mark the lots, and show tear down on Sunday evening. Kim also made a request for volunteers to assist with putting signs out on the road on Tuesday, 6/2/15 at 1pm. If you are able to help, please contact Kim by e-mail at [runninboar@hotmail.com](mailto:runninboar@hotmail.com). Kim discussed the Pot Luck dinner that will be held Saturday evening at 6pm. Norma will be in charge of the dinner and will pick up food for the Pot Luck from those that are not able to attend the show. Lisa will get napkins, plates and other paper products. The club will be donating the beverages. Admission for club members and museum members is free, but you must present your membership card at the gate! General public admission will be \$5.00 for adults and children under 12years old are free.
- There was a discussion of upcoming field trips. Detailed information for all of these field trips and others as they are developed will appear on the CSMS Calendar. Please email Sharon Holte with any field trip suggestions at [sharonrocksco@gmail.com](mailto:sharonrocksco@gmail.com).
- Mark read the proposed change to the CSMS constitution regarding the Paid For Life "PFL" Memberships. Ariel and Ronald "Yam" Yamiolkoski fielded questions regarding the proposal. The proposal will be published in the June Pick & Pack, prior to the vote at the General Meeting.

The meeting was adjourned at: 9:15pm.



## CSMS FIELD TRIPS

by Sharon Holte

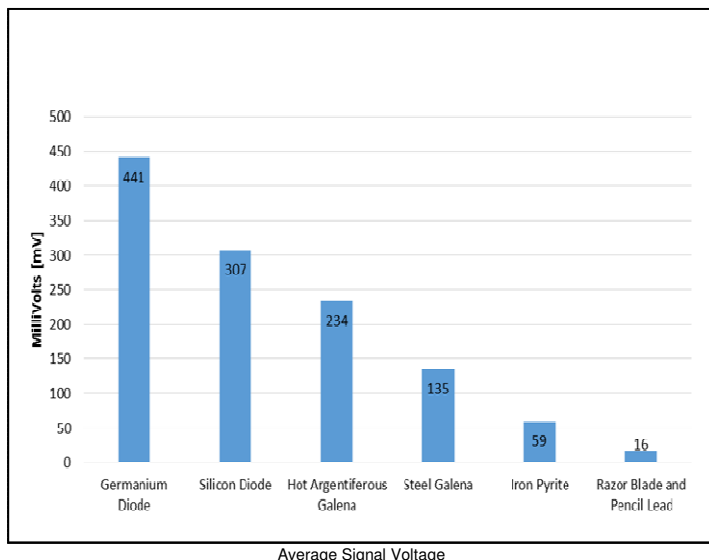
Below are the June and July scheduled trips for rock hound season 2015. **Please review the information for each trip on the Event Calendar at [www.csms.us](http://www.csms.us).** Click on the trip link for the specific day to view the trip overview and trip detail sheet.

If you have suggestions or would like to lead a field trip, please contact Sharon Holte, Field Trip Director, at [sharonrocksCO@gmail.com](mailto:sharonrocksCO@gmail.com). **If you are available to lead the field trip on July 23rd, please contact Sharon, as soon as possible.**

**Friday, June 19: Dave Harvey's Blue Agate Claim, Hartsel, Colorado** — Trip Leader: John Massie; Meeting Place: Bayou Salado Trading Post, Hartsel, Colorado; Meeting Time: 9:00 a.m. (\$20.00 fee)

**Saturday, June 20: Hartsel Barite, Hartsel, Colorado** — Trip Leader: Doreen Schmidt; Meeting Place: Bayou Salado Trading Post, Hartsel, Colorado; Meeting Time: 9:00 a.m.

**Thursday, July 23: Smoky Hawk Claim, Lake George area, Colorado** — Trip Leader: **NEED VOLUNTEER**; Meeting Place: Lake George Ranger Station, Trail Creek Rd./Hwy 94 (just off of 24); Meeting time: 9:45 a.m.; Limited to 40 attendees.



**Conclusion:** The modern germanium and silicon diodes created the largest signals and were the best sounding in the powered speaker, proving part of my hypothesis. They did not work with the earpiece alone, I'm guessing because the signal was too big for the earpiece. The hot argentiferous galena crystal detector worked the best with the earpiece, but it was hard to adjust ("fiddly") like the all the other crystal detectors that were not diodes.

**Application:** The crystal radio I built offers a way to obtain news when the power grid is down, for example during a natural disaster, since it does not require its own power to work. A functioning radio can also be made with simple parts like wire, razor blades, and pencil lead, just like they did in fox holes in World War II.

### Research:

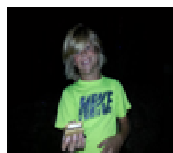
<http://bioweb.biology.utah.edu/goldenberg/fun.shtml>

[http://en.wikipedia.org/wiki/Cat%27s-whisker\\_detector](http://en.wikipedia.org/wiki/Cat%27s-whisker_detector)

Special thanks to Grandpa Hursey and my Dad.



Jack and Grandpa with fox-hole crystal radio.



**About the author: Jack Shimon** is in the 5<sup>th</sup> grade. Jack is an award winning poet, writer, and researcher. He has wide interests in geology, paleontology, and geoarchaeology. Jack has spent half of his life as a member of the Pikes Peak Pebble Pups. He lives at home with his family and his dog Comet.

### Our Staff...

**Lisa Kinder—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 **21st of the 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. Editors 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

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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 the Colorado Springs Senior Center, 1514 North Hancock Ave., Colorado Springs, CO. **Visitors are always welcome.**

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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.csms.us](http://www.csms.us).

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