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May 2025

# The Rocky Mountain Federation News



The official publication of the Rocky Mountain Federation of Mineralogical Societies, Inc. The RMFMS is a regional member of the American Federation of Mineralogical Societies, Inc. Email receipt of the *RMF News* is a privilege of membership in the RMFMS, and it cannot be exchanged by the editor for individual club newsletters from other regional federations. Accessible to the public on [www.rmfmts.org](http://www.rmfmts.org).

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Information for the **June** issue is due to  
[LJGRALG@aol.com](mailto:LJGRALG@aol.com) by **May 15**.

**President's Message***Jim Gray, RMFMS President*

I was happy to be able to attend the annual AFMS convention in person in Hickory, North Carolina. It was nice to see many old friends and make new ones.

I have the new hatband for the RMFMS President's Hat. It arrived the day after I left for North Carolina. I will put it on the hat as soon as I am able to take it off in private (LOL) and will get a new picture of me in the hat with the new hat band!



Many of the local rock clubs have begun having their annual gem and mineral shows. It is important we all support each other by attending. More than that, I encourage everyone to invite family, friends, co-workers, and neighbors to go with them to the shows. We may be able to attract new members by extending a specific invitation to go

with us. I know I am less likely to forget or decide not to do something if I have a specific time and date to go with someone else.



*RMFMS representatives at the AFMS meeting were Jim Gray, Leane Gray, Delane Cox, Wayne Cox, Larry Beck, Judy Beck, and present by Zoom but not in the picture were Liz Thomas and Bob Regner. Photographer unknown.*

I am continuing to seek volunteers for the committee heads for the following areas:

**Colorado State Director; Lapidary Tech; AZ PLAC; CO PLAC; OK/AR PLAC; SD PLAC; and UT/NV PLAC.** Please consider your willingness to volunteer and/or talk to people in your clubs who you think would be well suited to these roles. Leane Gray has stepped up to chair the Website Contest committee for RMFMS and reports to me that she would *greatly* appreciate some people who are skilled with website creation to volunteer to help on this committee. It is likely most participation could be done by email and zoom meetings.

Be sure to send pictures and articles of what your club is doing to Linda Jaeger. This includes field trips,

*continued on page 3*

## Treasurer's Report

Gene Maggard, RMFMS Treasurer

Another club has joined RMFMS — The Beehive Rock and Gem Club, Ogden, Utah. This brings us to a total of 84 clubs and total membership of 14,495 members. Most expenses are in except for convention expenses. Our checking balance is about \$11,000, so financially we are still in good shape. Investment earnings continue on track. The Vanguard bond fund did not take a big hit (yet) and its dividend payments are about as projected. Not much else to report.



President's Message — *continued from page 2*

meetings, shows, and special events. Clubs are also encouraged to post pictures and information on the RMFMS Facebook page. We do lots of fun and interesting things during the year, and it might give others good ideas, a good laugh, or appreciation for what other clubs are doing. If you make a video of a training or presentation, please consider submitting it to the RMFMS Library for others to borrow to show their clubs.

## What is the Status of the Rock Springs BLM RMP?

Greg Jones, WY PLAC

### The Only Thing Certain Is Uncertainty

There were many jubilant voices among some Wyoming County and State leaders after newly inaugurated President Trump signed an executive order "Unleashing American Energy" on January 20, 2025. That was followed by an extensive order by the new Interior Department Secretary, Doug Burgum, which started a review of federal owned acreage that had been withdrawn from mineral and energy development. That review would include the newly approved resource management plan (RMP) for the Rock Springs BLM Field Office in Wyoming. The headline on the Cowboy State Daily website read: **Trump Administration Shuts Down Controversial Biden-Era Rock Springs Management Plan**. But as they say in sports, that play is under further review.

Kate Groetzing, Communications Manager for the Center for Western Priorities, disputes the notion that the RMP is shut down. She stated on the

Wyoming Public Radio website, "You can't undo that overnight. To legally undo a resource management plan, you have to put a new one in place." In fact, Burgum's order does not explicitly shut down or cancel the RMP. Instead, it directs the BLM to review and replace restrictive regulations that hinder the multiple use of public lands, specifically mineral and energy development.

### What is the Review Process? Lawsuits inevitable?

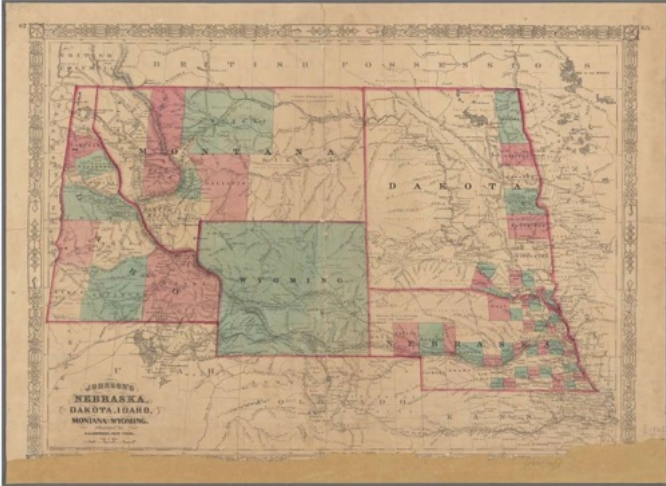
The critical question is: What is the process for reviewing and replacing an RMP? The current process involves public hearings, public comments including local, state and tribal input, and an environmental impact study, typically a long and drawn-out endeavor. Can this be legally accomplished through an alternative process? If so, what does that process entail? We know that the Trump Administration can "think outside of the box" so a creative alternative process could be coming.

*continued on page 4*



Status of Rock Springs BLM RMP? — *continued from page 3*

Regardless of the approach, lawsuits from both sides of the issue are almost inevitable.



Wyoming, Nebraska, Dakotas, Montana, & Idaho. Public Domain from <https://itoldya420.getarchive.net/amp/media/johnsons-nebraska-dakota-idaho-montana-and-wyoming-8ed3d5>

### Current Status

In a conversation with Kimberly Foster, Field Manager of the Rock Springs BLM Office, she confirmed, "The ROD (Record of Decision) was signed on December 20th, 2024, and the RMP is in full force and effect." Therefore, pending any review and subsequent revisions, the BLM considers the RMP as the current guiding document for public land use stewarded by the field office.

### Impact on Rockhounds

For rockhounds, there are some areas of uncertainty. The current RMP allows recreational gold panning and casual prospecting in areas not withdrawn from mineral entry. Unfortunately, this excludes approximately 900,204 acres, including much of the upper Sweetwater River, and the Big Sandy Foothills near and northwest of South Pass. The definition of "casual prospecting" remains unclear, especially for mineral collectors. What minerals can be collected in areas closed to casual prospecting? The BLM has yet to clarify, and a call back is pending.

### Staying Vigilant

Rockhounds need to remain vigilant during this transitional period, particularly regarding changes in regulations for designated Areas of Critical Environmental Concern (ACECs). The BLM indicated last year that additional areas might be withdrawn from mineral entry. It is crucial to stay informed and participate in comment periods. The time allotted for public comment is often notoriously brief.

If you hear of any public land-related issues affecting public access or rockhounding, please notify The Wyoming PLAC. **Contact Greg Jones at [cody59ers@wsmsg.org](mailto:cody59ers@wsmsg.org).**



### Where in the RMFMS is Rocky?

- Wyoming?
- Colorado?
- Oklahoma?

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Photo at left, US Department of Interior.

Answers on page 27.





## Quick Updates

*Roberta Wagle, OK/AR State Director*

### State Director

It's been a busy spring so far. This is the time of the year that I try to visit as many Oklahoma rock shows and swaps as possible. Both **Ada** and **NW Arkansas** had great shows, as always. April and May will bring more shows and swaps to visit.

### All American Club Award

Congratulations to the **Tulsa Rock and Mineral Society** and **Martha Rongey** for winning Gold again this year. There were a total of 4 Gold awards

given out at the American Federation convention this year. I would like to see more clubs within Rocky Mountain enter a yearbook for the year 2025.

### 2024 AFMS Website Contest Results

(from Lori Carter, AFMS Chair)

**1st Place** — Pat Rutan & Sarianne Rittenhouse, Payson Rimstones Rock Club

**Honorable Mention** — Chad Skinner, The Topeka Gem & Mineral Society

*Plaques & certificates will be presented at the RMFMS Breakfast with Editors & Webmasters in Grand Junction, CO.*

## Hey, Junior Leaders – There's a New Badge in Town!

*Dennis Gertenbach, CTN Editor*

There's a brand new badge you [juniors] can earn, the **Sand and Sediment Badge**. When you work on this badge, you will learn the *definition of sand, silt, and clay, and how they differ from each other*. Sand is fun, and you will learn many things *about it, what you can learn from it, and the things you can do with it*.

Let your leader know you want to earn this new badge. The requirements activities for the badge can be found at <https://www.juniors.amfed.org/fra-badge-program/the-badges/sand-sediment>. (This link is active in the digital version of this newsletter, so all you need to do is click on it to go directly to the page.)



## Club Corner – SNGMS

Winners of the April 2025 **Southern Nevada Gem and Mineral** Cabochon Contest.

Left to Right:

Ralph Voelker, 1st place

George Stewart, 2nd place

(from Mary Savage, SNGMS)

[What has YOUR club been up to?](#)



## Stromatolites

Judy Beck, McPherson Gem & Mineral Club

### AFMS Adult Articles, 1st Place 2025

#### *The Post Rock, 11/2024*

Dinosaur or plant fossils are perhaps some of the first answers to come to mind when considering the oldest biological material on Earth. However, single cell formations known as the stromatolite are the king of ancient biomass. Stromatolites are the oldest fossils, dating back 3.9 billion years. Stromatolites are a sedimentary rock that is formed by fossils left behind by cyanobacteria sometimes called blue-green algae.

The blue-green algae which formed stromatolite fossils were microscopic bacteria. The cells were not plants or true algae but simple prokaryotic cells which grew in dense mats. The word stromatolite comes from stroma meaning layer and lithos meaning rock or layered rock. Fossilized plants are difficult to find from this era in the fossil record because most plant cells require a carbon precipitate not found in the ancient environment to fossilize. The cyanobacteria forming the stromatolite colonized and created slimy mats in salt and freshwater, using the carbon dioxide in the surrounding water to release oxygen through photosynthesis. The photosynthetic process used by the algae created calcium carbonate, forming the required precipitate needed to fossilize. The calcium carbonate coated the slimy surface of the colonies along with sand and sediment forming layers. Layers continued to form and the process was repeated, creating the sedimentary rock layers the stromatolite fossils are found in.

Without large terrestrial plant life stromatolites were key to producing the oxygen rich environment needed for evolving life billions of years ago. Stromatolites can look different depending on where they are found in the world.

Stromatolite producing cyanobacteria is not as common today due to increased predation by other organisms in the modern world.



Photo by C Eeckhout, CC BY 3.0. [https://commons.wikimedia.org/wiki/File:StromatolitheAustralie2007\\_06.jpeg](https://commons.wikimedia.org/wiki/File:StromatolitheAustralie2007_06.jpeg)

However, stromatolites can still be found worldwide. The bacteria is most common in the salty seas of the Bahamas and Shark Bay, Australia, and in the freshwaters of Pavilion Lake, Canada and Cuatro Ci'enegas Basine, Mexico.

While not as flashy as other mega fauna from the ancient world, there are still those who appreciate these single cell fossils. There are even dealers at American Federation shows who exclusively deal in this ancient material. Indeed, the under-appreciated stromatolite offers a fascinating window into the history of the world and the origins of plant and animal life on Earth.

#### **Sources:**

Stromatolite Fossils. [fossilicious.com/stromatolite-fossils](https://fossilicious.com/stromatolite-fossils).

McGuinness, M. (2021, January, 18). Lifeforms. [bbc.com/travel/article/20210117-stromatolites](https://bbc.com/travel/article/20210117-stromatolites).

Helmenstine, A. (2024, March, 10). Stromatolites-The Earliest Fossils, [sciencenotes.org/stromatolites-the-earliest-fossils](https://sciencenotes.org/stromatolites-the-earliest-fossils).

Tidwell, W. (1975). Common Fossil Plants of Western North America, Brigham Young University Press.

## What's New in the Mineral World?

Mike Nelson, RMFMS Mineral Tech Chair



The IMA Commission on New Minerals, Nomenclature and Classification (CNMNC) recently released their approval of new minerals in Newsletter 84, February 2025.

A complete reference for the new minerals may be located in the REFERENCE located at the conclusion of this list. The

abbreviated list is as follows with additional information on new minerals described from the USA, four, Canada, two, and Mexico, one. I am especially interested in Tom Campbellite, a phosphate collected from the Dan Patch Mine in the Black Hills of South Dakota. One of the authors/collectors is Tom Loomis, who along with Lori Loomis (RMFMS State Director ND/SD/NE; PLAC ND/SD/NE; Directory publisher) operate Dakota Matrix out of Rapid City) and are active in RMFMS.

Fengruiite  $[\text{Ag}_6\text{Sb}_2\text{S}_7][\text{Ag}_9\text{Cu}_2\text{Te}_2]$  Fen  
Sigogglinite  $[\text{Pb}_6\text{Zn}(\text{OH})_8](\text{SO}_4)_3 \cdot 3\text{H}_2\text{O}$  Sgog  
Redmond mine, Haywood Co., North Carolina

Blueridgeite  $[\text{Pb}_8\text{Zn}_3\text{Cu}_2(\text{OH})_{16}](\text{SO}_4)_2(\text{S}_2\text{O}_3)_2 \cdot 2\text{H}_2\text{O}$  Blrg  
Redmond mine, Haywood Co., North Carolina, USA

Tomcampbellite  $[\text{KCl}][\text{Fe}_2+14(\text{OH})_6(\text{PO}_4)_6(\text{PO}_3\text{OH})_2]$  Tcp  
Dan Patch mine, near Keystone, Pennington Co., South Dakota

Lucasite-(La)  $\text{LaTi}_2\text{O}_5(\text{OH})$  Lca-La  
Lechnerite  $\text{Ag}_{10}\text{Cu}_4\text{HgPb}_{33}\text{Sb}_{58}\text{S}_{128}$  Lhn  
Johnjamborite  $\text{Pb}_{14}\text{Sb}_{8.5}\text{As}_{7.5}\text{S}_{38}$  Jjb Madoc,  
Ontario, Canada

Sugarwhiteite  $\text{Pb}_2\text{Te}_5\text{O}_{12}$  Sgw Moctezuma mine,  
Moctezuma, Sonora, Mexico

Stillwellite-(La)  $\text{LaBSiO}_5$  Swl-La  
Morleyite  $\text{Ag}_2\text{CuPb}_{25}\text{Sb}_{24}\text{As}_4\text{S}_{68.5}$  Myt Taylor Pit,  
Madoc, Hastings County, Ontario, Canada

Ferroåkermanite  $\text{Ca}_2\text{FeSi}_2\text{O}_7$  Fåk  
Morningstarite  $\text{Na}(\text{W}_{2.67}\text{Fe}_{3+0.33})\text{O}_9 \cdot \text{H}_2\text{O}$  Mnsr  
Guastoniite-(Y)  $\text{Pb}_4(\text{YCa})(\text{Si}_8\text{B}_4\text{O}_{28})\text{F}$  Gsn-Y  
Macivorite  $(\text{NH}_4)_3\text{Al}_5(\text{PO}_3\text{OH})_6(\text{PO}_4)_2 \cdot 18\text{H}_2\text{O}$  Mvr  
Magselite  $[\text{Mg}(\text{H}_2\text{O})_6](\text{Se}_4+\text{O}_3)$  MgsI Pickett Corral  
mine (Pickett Corral #4), Montrose Co., Colorado

Anatolygurbanovite  $\text{SrCa}_2\text{Si}_3\text{O}_9$  Agb  
Anatolygurbanovite  $\text{SrCa}_2\text{Si}_3\text{O}_9$  Agb  
Brunovskyite  $\text{NaZrSi}_2\text{O}_6(\text{OH})$  Bvs  
Xianhuaite-(Ce)  $\text{K}_2\text{CeNb}_5\text{O}_{15}$  Xhu-Ce

**Reference:** Bosi F., Hatert F., Pasero M. and Mills S.J. (2025) IMA Commission on New Minerals, Nomenclature and Classification (CNMNC) - Newsletter 84. Mineralogical Magazine, <https://doi.org/10.1180/mgm.2025.22>



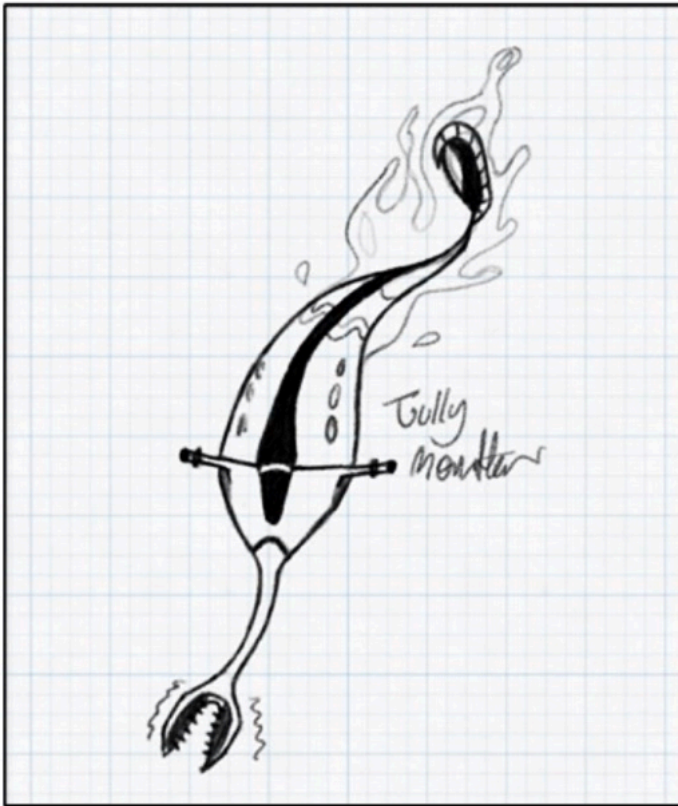
I once swallowed a book of synonyms. It's given me thesaurus throat I've ever had.

From OMGFacts on Facebook, 4/9/2025  
(Photo by Linda Jaeger — MY Thesaurus!)



## Fossil of the Month: Tullimonstrum

Charlotte Small, age 17, Flatirons Mineral Club (CO)



*Tullimonstrum* (also known as the Tully Monster) was an aquatic animal from the Pennsylvanian rock of the Mazon Creek fossil beds. It has a long and confusing history regarding taxonomic classification.

You can read more about it [here](#) and [here](#).

Charlotte has a comic series about prehistoric history, Grey's Prehistoric World, at [https://www.webtoons.com/en/canvas/greys-prehistoricworld/list?title\\_no=847316&webtoon-platformredirect=true&page=1](https://www.webtoons.com/en/canvas/greys-prehistoricworld/list?title_no=847316&webtoon-platformredirect=true&page=1). You can learn more about ancient environments and the creatures that lived there from her comics.

From *Crack the News*, March 2024



### Where in the RMFMS is Rocky?

- Wyoming?
- Colorado?
- Oklahoma?

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Photo at left Library of Congress, Carol M. Highsmith Archive

Answers on page 27.

## Historic Victor, Colorado Holds Annual Gem & Mineral Show Plus Oddities Alley



*Downtown Victor 2 | sfgamchick | Flickr. CC BY-NC-ND 2.0.*

The annual Victor Gem & Mineral Show presented by the Southern Teller County Focus Group (STCFG) in Victor, Colorado will be held June 20-22. The event will be held in **downtown historic Victor** and is open and free to the public.

The show will include vendors from across the state selling hand dug minerals. Items for sale will include polished gems, hand-crafted jewelry, rough slabs, specimens, cabochons, geodes, turquoise, and more. There will also be gold and

gem panning at the **Victor Lowell Thomas Museum**. Show hours are from 9 to 5 Friday and Saturday and 9-4 on Sunday.

June 21 and 22 you can experience **Oddities Alley**, a concurrent event with a unique blend of vendors, food trucks, and live entertainment. The Enigma will be performing during the weekend. The Enigma is a bizarre show of original music, odd humor, and amazing stunts. The concurrent events are sponsored by the **Black Monarch Hotel in Victor**.



*Victor Lowell Thomas Museum. Photo by Jasperdo on Flickr. CC BY-NC-ND 2.0*

In addition, the Victor Lowell Thomas Museum gift shop will be open with its collection of rocks, gems, minerals, rhodochrosite and aquamarine jewelry, geodes and gold panning for kids of all ages. The museum also houses a mineral collection as well as historic mining equipment, photos, and historic oddities. See [VictorMuseum.com](http://VictorMuseum.com) for information.

Victor's many shops and attractions will also be open, including **Victor's Gold Camp Ag & Mining Museum**, antique, art, and gift shops, the German bakery, the local bars and eateries, as well as the local parks and **Trails of Gold** where you can explore the outdoors in historic gold mining country.

For more information on the STCFG or this event, visit [STCFG.com](http://STCFG.com), email [info@stcfg.com](mailto:info@stcfg.com), or call 719-689-5509.

## The 5th Phoenix Heritage Mineral Show

*from Chris Whitney-Smith*

### Three Day Show!

**Theme:** "Copper"

**Dates:** Friday, June 6- Sunday June 8, 2025

**Location:** Phoenix Shrine Auditorium  
552 N. 40th St.  
Phoenix, AZ

### Show Hours:

Friday & Saturday: 10am-6pm

Sunday: 10am-4pm

### Cafe Hours:

Friday & Saturday: 10am-5pm

Sunday: 10am-4pm

### Admission:

**Cash Only — ATM Available**

\$10.00 Adults

\$ 5.00 Veterans, Seniors (65+), Students

FREE - Children under 12 with Adult

[FREE Parking](#)

The only quality mineral show in the Phoenix area bringing exceptional minerals to the discerning mineral collector! The Show also includes high-quality gemstones, jewelry, and fossils! Museum, Guest, and Competitive Exhibits with Awards.

### Competitive Awards

Bob Jones Trophy

Best Display of Minerals

David Shannon Trophy

Best Display of Field Collected Minerals

Arthur L Flagg Trophy

Best Display of Minerals (Junior)

Best of Theme

COPPER

Thumbnail-Miniature

Best of Theme

COPPER

Small Cabinet-Cabinet





## Get Ready! Grand Junction Gem & Mineral Club Hosts RMFMS Convention 2025

79<sup>th</sup> Annual!

# Gem, Mineral & Rock Show

**September 20-21, 2025**  
**Mesa County Fairgrounds**  
**Grand Junction, Colorado**

# Rock Show



Beautiful Barite

**Also:**  
**Hosting the RMFMS Convention!**  
 Sept 19-21

**Gems – Minerals – Fossils – Rocks – Jewelry – Geodes - 40 Vendors**  
**Kids Activities – Silent Auction – Food Trucks – Grab Bags - More!**

September 20 9am-5pm & September 21 10am-4pm, 2025  
 Mesa Country Fairgrounds, Grand Junction Colorado  
 2785 US-50, Grand Junction, CO 81503  
 Entry: \$5 Adults, \$4 Seniors and Military, Kids <12 Free.

Mineral specimen and photo by: Jim Schultz

Presented by the Grand Junction Gem & Mineral Club.  
 For more info, see: [www.grandjunctionrockclub.org/shows](http://www.grandjunctionrockclub.org/shows)  
 The GJGMC is a 501(c)(3) non-profit organization providing scholarships to earth science students



Meet us in Grand Junction, Colorado for the 2025 RMFMS Convention at the GJGMC Show.

RMFMS activities begin Sept. 19 and continue throughout the GJGMC Show, which opens Sept. 20 and continues through Sept. 21.

*Show packet begins on page 15.*



### Where in the RMFMS is Rocky?

- Wyoming?
- Colorado?
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Clipart at top by Phillip Martin. CC BY NC ND 3.0.

Photo at left <https://creativecommons.org/publicdomain/zero/1.0/>  
 Answers on page 27.



## Tiemannite and Luanheite: Two Rare Mercury Minerals

Mike Nelson, [csrockguy@yahoo.com](mailto:csrockguy@yahoo.com), Colorado Springs Mineralogical Society



Selenium, Number 34 on the Periodic Chart of Elements, has properties that are intermediate between the elements above (sulfur) and below (tellurium) in the periodic table. It is often described as a metalloid with properties intermediate between a metals and nonmetals. For comparison, other metalloids include silicon, boron, antimony, arsenic, tellurium, and several others. Selenium is a rare element and its abundance in the earth's crust ranks the element 67th (0.05 ppm) while #1 oxygen has 461,000 ppm. Native selenium is rare as a mineral but does appear in some uranium-vanadium sandstone deposits. If selenium is available in hydrothermal or magmatic solutions it often substitutes for some sulfur in the formation's sulfide minerals.

I do not have a specimen of native selenium but have acquired and described, in the April Newsletter, thumbnails of clausthalite [PbSe], klockmannite [CuSe] and berzelianite [Cu<sub>2</sub>Se]; all are fairly rare minerals and in the selenide group. Selenium can exist in the oxidation states of 2-, 2+, 4+, and 6+ and form selenates, selenides, and selenites (not the gypsum variety). In selenide compounds the selenium has an oxidation charge of 2- and this group includes all ~125 naturally occurring selenium minerals (I think).

My most recent collection addition to the selenides is a specimen of tiemannite acquired at the 2022 Tucson Show. Tiemannite is a rare mercury selenide [HgSe] where the selenium anion has an oxidation state of 2-. Mercury, in nature, has three possible valence states. Elemental mercury has no valence state (Hg<sup>0</sup>), mercurous mercury has a 1+ state (Hg<sup>+</sup>), and mercuric mercury comes in at 2+ (Hg<sup>++</sup>). So, tiemannite has a nice balance of a 2+ cation and a

2- anion. It is related to coloradoite, a mercury telluride (HgTe).

Tiemannite has a steel gray to black color, a metallic dull luster, and a black streak. Like most metals it is opaque and soft (~2.5 Mohs); however, it does exhibit a brittleness. Although some collecting localities produce small tetrahedral crystals most specimens of tiemannite are massive to granular and compact. It commonly occurs with other tough-to-identify selenides in hydrothermal veins.



**Above left:** Tiemannite crystals (sub-millimeter in size) forming dendrites and other features. A large cluster of micro-crystals may be observed in the lower right quadrant. Width FOV ~7.0 mm.



**Above right:** Tiemannite crystals (sub-millimeter in size). Notice the scattered individual crystals in center of photograph. Width FOV ~4.0 mm. Best my camera could produce of these microscopic crystals.

My specimen came from the Lucky Boy Mine, Mount Baldy Mining District on the east flank of the Tushar Mountains of Piute County near Marysville, Utah. The district is a large gold-silver producer having significant zinc-lead deposits and covers part of the Marysville volcanic field in the transition zone from the Basin and Range Province to the west and the Colorado Plateau to the east. Upper Paleozoic and Mesozoic sedimentary strata occur along the eastern base of the range and are unconformably overlain by rocks of the Marysville volcanic field (Chenoweth, 2007). The Lucky Boy mine was not a gold-silver mine but was producing

continued on page 19

Rare Mercury Minerals — *continued from page 18*

mercury (213 flasks) by retort during 1886 to 1887 and, as far as is known, is the only U. S. deposit of the selenides of mercury to be operated commercially (Callaghan, 1972).

The second mineral that joined my collection in 2022 (Tucson) is also a mercury mineral that, at first, confused me to no end! With the tiemannite described above I was able to observe mercury as a “normal” cation with an oxidation charge of  $2^+$  and balance with the selenium anion of  $2^-$ . My new specimen was luanheite with a formula of  $\text{Ag}_3\text{Hg}$  and I nabbed it due to mercury appearing as an anion—and so it came home with me. Last week while sorting and looking at minerals (a constant joy) I pulled out the two perky boxes and suddenly my mind hit a brick wall. Something was wrong, or so I thought. As noted above, mercury has oxidation states of 0,  $1^+$ , and  $2^+$  so how could it be an anion? How could it match with the positive oxidation states of silver,  $1^+$ ,  $2^+$ ,  $3^+$ ? Confused was I!

As noted, before in my little writings, I am trying to remain a lifelong learner and therefore relearning “basic chemistry as I advance in age. My three semesters of chemistry as an undergraduate in Hays, Kansas, were completed over 60 years ago and much of the “learning” in these classes did not stick in my brain for the following decades. That is one reason I commonly mention oxidation states in discussions—pushing, pushing my mind to try and understand. So now perhaps I have an answer.

Luanheite, according to MinDat, belongs to the silver amalgam group (yes, the same as your tooth fillings) and therefore is an amalgam mineral. So far, so good. An amalgam is an alloy and a combination of mercury with another metal, in this case silver. Most minerals, other than the native elements, are chemical compounds and held together by chemical bonding (several types of bonding) and may be transformed by chemical

reactions. Amalgams, and most metals, are held together by metallic bonding where electrostatic forces are in play. This bonding is quite strong and therefore “holds together” the silver and the mercury.

With some continued interaction examining chemistry books, I found the answer. All elements in an amalgam are in an elemental state and have oxidation charges of zero. So, in the mineral luanheite, an amalgam, both mercury and silver are in oxidation states of zero. I suppose any student enrolled in CHEM 100 would know that; however, if I learned such, it “slipped my mind.”

Robert Cook wrote a great article in *Rocks and Minerals* (2002) describing the discovery and naming of luanheite. The crux of the story was your work is not finished till the paperwork is done. Cook posed the question, “if one discovered a pocket of this material [luanheite in Chile], a mineral unknown until the 1980s, its peculiarity and obvious rarity would suggest that timely formalization as a new species was not an urgent matter. Why then rush to publication?” As you might guess, a group of Chinese scientists had identified and published a description of the new mineral luanheite located in a gold-bearing alluvial gravel, a completely different environment from the Chilean volcanic tuff-hosted silver and mercury mine. Although the Chilean luanheite locality produces the finest specimens in the world, the Type Locality is an obscure river in China and the Type Specimen is a rounded small pebble; no photograph is included on the MinDat description.

*Dark metallic gray-black sheets of luanheite on a matrix of volcanic tuff. The specimen was collected in 1985, the year that information about the rare find was published. Width FOV ~9.0 mm.*



continued on page 20



Rare Mercury Minerals — *continued from page 19*

As Cook described, luanheite closely resembles native silver, ranging in color from gray, white to black, has a metallic luster, a hardness of ~2.5 (Mohs), and is soft and malleable. It usually is massive, granular, or sheetlike; however, at the Chilean Elisa de Bordos mine it may occur in arborescent growths. The chemistry remains constant across mineral grains indicating it is a mineral and not just a jumbled mixture of silver and mercury.

This has been a tough assignment but perhaps someone sort of perked me up---Richard Faymann: Study hard what interests you the most in the most undisciplined, irreverent, and original manner possible. I can, at times, be quite irreverent and undisciplined!!

**References Cited:**

Callaghan, E. (1973) Mineral Resource Potential of Piute County, Utah, And Adjoining Area: Utah Geological & Mineralogical Survey Bulletin 102.

Chenoweth, W.L., 2007, History of uranium production, Marysville district, Piute County, Utah, in Willis, G.C., Hylland, M.D., Clark, D.L., and Chidsey, T.C., Jr., editors, Central Utah—Diverse

geology of a dynamic landscape: Utah Geological Association Publication 36.

Cook, R.B., 2002, Connoisseur's Choice: Launheite: Elisa de Bordos Mine, Northern Chile, Rocks & Minerals, vol. 77 no. 2.

TRIVIA. Although my mind might have lost some knowledge once learned in chemistry, one thing that has not disappeared in those 60+ years is a small tavern on 11<sup>th</sup> St. in Hays, the Brass Rail. Just a laid-back place with cold drafts of Coors for \$.15 (in the early 1960s).

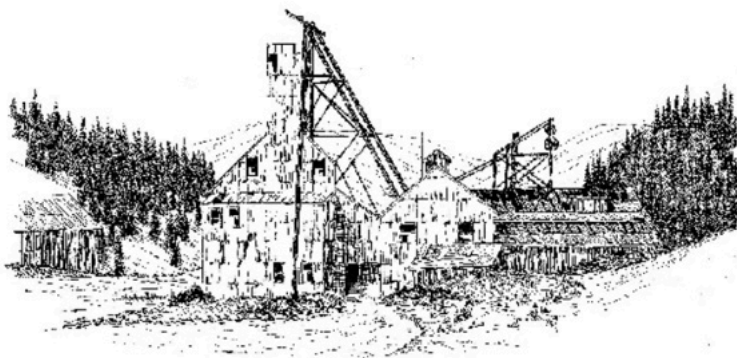


*The Brass Rail on 11th St. in Hays, Kansas. Parked in front is a great 1955 Chevy. Photo and car courtesy of Jeff Thisted.*

**Headframe**

By Gavin Seltz

Lifting gold ore up  
Dropping miners down  
Cripple Creek or Bust



*The headframe of the historic Cresson mine, Cripple Creek, Colorado. Artwork by Gene Mourning, courtesy of the Western Museum of Mining and Industry.*

*Poetry at right from  
CSMS Pick & Pack,  
May 2022.*

## Grand Junction/RMFMS Convention Package

*Liz Thomas, RMFMS Secretary*



On the following pages is the Convention Package for the RMFMS/Grand Junction Convention and Show. Please share with all your members and make sure that the two people you choose to be your

convention delegates get this.

It is going to be a great convention and a great show. This is a wonderful opportunity for everyone to gather and find out what is happening in all the other clubs around the area.

If you're wondering why there is no host hotel — in addition to the RMFMS/Grand Junction Convention and Show, there are a multitude of other activities happening that weekend. **Roam Fest Fruita 2025** on September 19. **Downtown Car Show by Color Auto Detailing, Line Dancing Class @ Mama Ree's, Tour de Vineyards** on September 20. **Beer Geek Trivia** on September 21. And there is much more going on in town. The big one is the wine festival. This means hotels will be very busy.

I have found 2 hotels that I would recommend. I have stayed in one of them, but I wanted to try the other. They are next to each other so if we want to gather on an evening for social we can do it with no problem. The one I, along with several from the Tulsa club will be staying at is the **Grand Vista Hotel**. The other one I have stayed in and like is **Clarion Inn Grand Junction**. I am sure you will find a hotel that suits your needs. But I would get on it pretty fast.

Please look over all the material on the convention and **pay close attention to the field trips** they will be hosting. There are three of them, and they all look fantastic. I know several people who have

made it quite clear they will be there for all three of these. I hope you attend and bring back some awesome finds.

We need all the paperwork turned in as quickly as possible so we have a count on delegates, proxies, food and attendance. You have always done an outstanding job in getting this to us, and I greatly appreciate it.

If you have any questions, please contact me. If I do not know the answer, I will find someone who does.

Hope to see you all there and let's talk. Come say hello to me and let me get to know you. I know the people from Grand Junction, and they are excited to have us all there.

Thank you so very much.

Liz Thomas  
RMFMS Secretary  
RMFMS Convention Advisor



Photo by Steven Martin on Flickr. **Grand Junction from Rim Rock Drive, Colorado National Monument.** CC BY-NC-ND 2.0.



# **2025 RMFMS Convention**

## **GJGMC President's Message**

Hello Friends of the RMFMS!

We in the [Grand Junction Gem & Mineral Club](#) are so pleased to welcome you to the 2025 Annual RMFMS convention in Grand Junction, Colorado, this year. We think there are many things for you to enjoy while you are here. Try to enjoy as many of them as you can!

The Executive Committee will meet on Friday afternoon, Sept 19<sup>th</sup>, 1 PM. The Delegate Session will be on Saturday afternoon, Sept 20<sup>th</sup>, 1 PM. The Breakfast for Editors and Webmasters will be Sunday at 8 AM. All 3 of those meetings will be at the GJGMC Clubhouse (2328 Monument Road, Grand Junction, CO 81507) On the Saturday night of Sept 20<sup>th</sup>, at 6pm, we will have a dinner banquet at the [Historic Redlands Community Center](#) (2463 Broadway, Grand Junction, CO 81507), where the RMFMS will present your scholarship awards to your recipients.

On those same days, the GJGMC will be having our 79<sup>th</sup> Annual Rock Show at the Mesa County Fairgrounds (2785 US-50, Grand Junction, CO 81503). We run a good-sized rock show, so it is pretty much all-hands-on-deck for our volunteers, with Kids Activities, a Silent Auction, Lapidary and Silversmithing demonstrations, Grab Bags, Educational Display Cases, a Florescent room, Food Trucks, and 40 Vendors including many from surrounding states, selling Minerals, Rocks, Fossils, Gems, and Jewelry handmade from natural materials. We will be setting-up at the Fairgrounds on Friday, Sept 19th from 10am-4pm. The Rock Show hours will be Saturday, Sept 20<sup>th</sup> from 9am-5pm, and Sunday, Sept 21, 10am-4pm.

Also on those days we have scheduled three, free field trips to show you some of the things that we (try to) find in our region. Friday morning we will lead those interested to look for Eocene insect and plant fossils at Douglas Pass. Saturday morning we will show you where you can collect what we call YellowCat agates, which are cryptocrystalline quartzes that take a good polish. Sunday morning we will show you where to find the famous BookCliffs Barite. If you need more rock-hounding ideas, check-out the [Rugged Rockhound](#) videos on YouTube, who I recommend because he posts the GPS coordinates where he goes.

There is not an official hotel for the RMFMS delegates, because there are two, big, competing events in the Grand Valley for our same weekend. Hotel rooms will be less available than usual, and they would give no discount for the RMFMS delegates. Without some kind of discount there is no reason to designate an official hotel.

We recommend the DoubleTree hotel at 743 Horizon Dr, Grand Junction, CO 81506. The delegates might find that a convenient location to meet together for drinks at their lounge, but there are a lot of competing hotels nearby along Horizon Drive that the delegates might find more affordable for their overnight stays. The Tru Hotel and the Hampton Inn downtown would be a central location between our clubhouse where the RMFMS meetings will be, the banquet, and our rock show at the Mesa County Fairgrounds. The hotels along 24 Road would also be a good location. The whole Grand Valley is not that big, and people can get around to most places in 20-minutes or less. The sooner you make a hotel reservation for yourself, the more choices you will have.



Convention Package— *continued from page 16*

If you have some free time to see things in the Grand Valley, the beautiful [Visit Grand Junction](#) website has many ideas for you. If you like Paleontology, you might enjoy visiting the Dinosaur Journey Museum in nearby Fruita, CO, our own corner of the famous Dinosaur Diamond. If you are traveling with elementary-school aged kids, you might like to take them to the [Eureka! McConnell Science Museum](#). If you like to hike, GJ has over 350 trails listed with maps and pictures [here](#).

If you are going to travel from some distance, there are LOTS of things to see in Colorado coming or going. The [Colorado School of Mines Museum of Earth Science](#), and the [Denver Museum of Nature and Science](#) both have amazing displays of mineral specimens. Check out the book from your library: "[Colorado Rocks!](#)" for a good overview with beautiful pictures of places to see Colorado geology.

If you would like to setup a display case at the Rock Show, either a competitive or a non-competitive display case, please see the forms on the following pages. The GJGMC has 12 display cases available for people to use, and there is room at the Rock Show for 12 cases with electricity. Additional space will be available for display cases that don't need electricity. The Display-Case Coordinator will designate which cases go in which space.

We will need to receive registrations by **Friday, Aug 29<sup>th</sup>** so we can notify our caterers for the banquet dinner Saturday night, Sept 20<sup>th</sup>, 6 PM, and for the Breakfast on Sunday morning, Sept 21, 8 AM.

We hope you will join us and visit as long as you can. Please let us know if we can answer any questions or talk about it more. Best wishes for a pleasant trip to Grand Junction. We look forward to seeing you in September.

Steve Cable, President, 970-312-1005

Pat Martinez, RMFMS Delegate, 970-773-8287

## **2025 RMFMS Convention**

MEALS for AWARDS BANQUET & EDITOR/WEBMASTER BREAKFAST

### **Awards Banquet, Saturday September 20, 2025, 6 PM**

Location: [Historic Redlands Community Center](#) (2463 Broadway, Grand Junction, CO 81507)

5 PM Gathering. Get there early for a good seat and to visit with your friends. There is not a cash bar.

6 PM Dinner in the Banquet Room, catered by Famous Dave's BBQ

Buffet Menu: Mixed Green Salad

Entree: 3 Meat Sampler – St. Louis Style spareribs, BBQ Chicken, Texas Brisket  
Corn Bread Muffin

Sides: Wilbur Beans, Dave's Cheesy Mac & Cheese, Creamy Coleslaw

Beverages: Bottled water, canned pop, tea, sweet tea, and lemonade

Dessert: Homemade Hot Fudge Kahlua Brownie, Freshly-baked Chocolate Chip Cookie

### **Breakfast for Editors and Webmasters, Sunday, Sept 21, 2025, 8 AM**

Location: GJGMC Clubhouse, (2328 Monument Road, Grand Junction, CO 81507)

8 AM Breakfast in the Meeting room, catered by Sweet Bee.

Mini-Breakfast Burritos (Assorted sausage, bacon, chorizo, and vegetarian)

Mini-Cinnamon Rolls

Bakery Platter, with a variety of mini-baked goods, like muffins, bars, coffee cake, and such.

Fruit Platter

Beverages: Juice, Coffee, Tea

Convention Package — continued from page 17

# **2025 RMFMS Convention**

## **Field Trip Descriptions**

We have scheduled three, free field trips to show you some of the things that we (try to) find in our region. For any field trip, always bring a hat, a jacket, hiking shoes, sunscreen, a water bottle, a full tank of gas, and some snacks to keep your strength up.

1. Friday, Sept 19<sup>th</sup>, 7:30 AM. **Douglas Pass Fossils.** Leave from the DoubleTree light pole that is within sight of the nearby traffic circle. (743 Horizon Dr, Grand Junction, CO 81506) We will drive W on I-70 to exit 15, then N on Hwy 139 to the top of Douglas Pass, 54 minutes so far, where we will regroup. Then we will take a gravel road that is passable by ordinary cars, East, and uphill before it levels off, to a parking area near a NOAA radar facility (39°38'17.2"N 108°45'41.4"W) 4WD vehicles might want to drive on top. We will leave the radar facility alone! We will look for Eocene insect and plant fossils in the Green River Formation. Bring hand-sized splitting tools, like a flat-head screw driver, a putty knife, a small crow bar, and maybe a small shovel if you want to move some overburden. Find a rock with layers that are splitting apart. Insert tool and open it up to see if a fossil is inside. Repeat until successful. This location is described in the Colorado Rockhounding book, by Kappel, 3<sup>rd</sup> Ed. See also: [http://nautiloid.net/fossils/sites/douglas\\_pass/douglas\\_pass.html](http://nautiloid.net/fossils/sites/douglas_pass/douglas_pass.html), and

[http://www.paleocurrents.com/img/2005-07-04douglas\\_pass\\_fossils/HTML/index.htm](http://www.paleocurrents.com/img/2005-07-04douglas_pass_fossils/HTML/index.htm)

2. Saturday, Sept 20<sup>th</sup>, 7:30 AM. **Yellow Cat Agate.** Leave from the DoubleTree light pole that is within sight of the nearby traffic circle. (743 Horizon Dr, Grand Junction, CO 81506) We will drive West about an hour on I-70 to the Yellow-Cat exit 193, where we will regroup on the south side. Then follow the trip leader a few more miles to the collecting location. This is surface collecting of cryptocrystalline (agate-y) quartzes with nice red and yellow colors that forms in the Mancos Shale by diagenesis (whatever that is!). Be alert for petrified wood. Dinosaur bones should be reported. Bring a high-clearance vehicle, or carpool at the final approach. Bring a bucket, and a rock hammer if you want to see how they look on the inside. See this YouTube video for a typical experience: ["Rockhounding for Agate at Yellow Cat Flats Utah"](#)

3. Sunday, Sept 21<sup>st</sup>, 7:30 AM. **Bookcliffs Barite.** Leave from the DoubleTree light pole that is within sight of the nearby traffic circle. (743 Horizon Dr, Grand Junction, CO 81506). Follow the trip leader in your high-clearance vehicle north of town, out 25 Road to the collecting location. Find a concretion, preferably with a visible vein showing. Use your digging tools (rock hammer, chisel, crow bar, pick) to follow that vein and hopefully find a vug with barite in it. Dig with gusto. The surface collecting of calcite can also be satisfying. Bring a bottle of 10% muriatic acid to tell the difference. Watch the Rugged Rockhounder videos on YouTube.



Convention Package — continued from page 18

# 2025 RMFMS Convention

## Schedule

Date	Time	Activity	Location
Friday, Sept 19	7:30 AM to ~ 1 PM	Field Trip to Douglas Pass	Meet at the DoubleTree Hotel 743 Horizon Dr By the light pole on the E side Do not be late!
	<b>9 am – 11 am</b>	Exhibit Cases Setup	Mesa County Fairgrounds Grandstand Building 2785 US-50, Grand Junction, CO 81503
	10 am – 4 pm	Vendor Setup	Mesa County Fairgrounds
	<b>11 am</b>	Judge's Meeting	Mesa County Fairgrounds Grandstand Building
	<b>12 pm – 12:45 pm</b>	Executive Registration	GJGMC Clubhouse
	<b>1 pm</b>	Executive Committee	2328 Monument Rd
Saturday, Sept 20	7:30 am to ~ 1 pm	Field Trip to Yellow Cat	Meet at the DoubleTree Hotel 743 Horizon Dr By the light pole on the E side Do not be late!
	9 am – 5 pm	GJGMC Fall Rock Show	Mesa County Fairgrounds 2785 US-50, Grand Junction, CO 81503
	<b>9 am</b>	Judging of competitive cases	Mesa County Fairgrounds Grandstand Building
	<b>11 am – 12:45 pm</b>	RMFMS Delegate Registration	GJGMC Clubhouse
	<b>1 pm</b>	RMFMS Delegates Meeting	2328 Monument Rd
	5 pm – 6 pm	Gather for the Banquet	Redlands Community Center
	6 pm – 7 pm	RMFMS Dinner	2463 Broadway, Grand Junction, CO 81507
	<b>7 pm – 8:30 pm</b>	RMFMS Presentations	
Sunday, Sept 21	7:30 am to ~ 2 pm	Field Trip to Bookcliffs Barite	Meet at the DoubleTree Hotel 743 Horizon Dr By the light pole on the E side Do not be late!
	<b>8 am – 10:30 am</b>	Breakfast for Editors and Webmasters	GJGMC Clubhouse 2328 Monument Rd
	10 am – 4 pm	GJGMC Fall Rock Show	Mesa County Fairgrounds 2785 US-50, Grand Junction, CO 81503



Convention Package — continued from page 19

# **2025 RMFMS Convention**

## **Convention Registration Form**

The Grand Junction Gem & Mineral Club (GJGMC) welcomes the RMFMS  
Sept 19-21, 2025

Return Form and Check to:

RMFMS c/o Grand Junction Gem & Mineral Club  
P.O. Box 953  
Grand Junction, CO 81502

Name(s): \_\_\_\_\_

Phone: \_\_\_\_\_

Mailing Address: \_\_\_\_\_

Email Address: \_\_\_\_\_

Name of Club/Society: \_\_\_\_\_

Check all that apply:

Federation: AFMS\_\_\_ RMFMS\_\_\_ SCFMS\_\_\_ CFMS\_\_\_ MWF\_\_\_ EFMLS\_\_\_  
NFMS\_\_\_ SFMS\_\_\_

Office: Officer\_\_\_ Chairman\_\_\_ Delegate\_\_\_ Alternate\_\_\_ Editor\_\_\_\_\_  
Judge\_\_\_ Clerk\_\_\_ Other\_\_\_ Exhibitor: \_\_\_\_\_

(Exhibitors must complete this form and the EXHIBITOR FORM)

FEDERATION AWARD BANQUET

\$40.00 each (tax and tip included) x Number\_\_\_\_\_ = Total \$\_\_\_\_\_

BREAKFAST with the Editors and Webmasters

\$20.00 each (tax and tip included) x Number\_\_\_\_\_ = Total \$\_\_\_\_\_

= GRAND TOTAL \$\_\_\_\_\_

Admission to the Show is \$5.00 at the gate. (NA for Judges and Exhibitors)

Deadline for Registration is **Friday, August 29, 2025.**

Payments are non-refundable after 8/29/2025

Convention Package — continued from page 20

# **2025 RMFMS Convention**

## **Competitive Exhibit Entry Form**

The completed form is due by **Friday, August 29, 2025**, and it must be signed and dated.

Email to the completed form to Steve Cable, [president@grandjunctionrockclub.org](mailto:president@grandjunctionrockclub.org)

or mail it to RMFMS c/o GJGMC, P.O. Box 953, Grand Junction, CO 81502

Name: \_\_\_\_\_ Phone: \_\_\_\_\_

Mailing Address: \_\_\_\_\_

Email: \_\_\_\_\_

Name of Club/Society: \_\_\_\_\_

Exhibitor Group: Master\_\_\_ Advanced\_\_\_ Novice\_\_\_ Junior\_\_\_ Society\_\_\_ Junior Society\_\_\_

Division: \_\_\_\_\_ Exhibitor Class: \_\_\_\_\_

There will be 24-hour building security, however neither the Mesa County Fairgrounds, RMFMS, or the GJGMC, nor their affiliates assume any responsibility for loss or damage.

### **EXHIBIT CASE AND SPACE INFORMATION**

I will use my own case: Yes\_\_\_\_\_ No\_\_\_\_\_

If I will use my own case, its dimensions are: Width\_\_\_\_\_ Height\_\_\_\_\_ Depth\_\_\_\_\_

Do you need a case provided? Yes\_\_\_ No\_\_\_ Provided cases are 40' wide x 24" tall, and 18" deep at the top and 23.75" deep at the bottom.

All cases will be assigned space on tables 30" high. Bring your own risers if needed. If your case has its own stand, please let us know. \_\_\_\_\_

Exhibit Set up Time: **Friday, September 19, 2025, 9am-11am.**

**By signing below, I have read the current AFMS Uniform Rules and agree to abide by them. I understand that Competitive Exhibitors are to be Society members in good standing and eligible to exhibit in the stated classification according to the Rules. The Rules are available at <http://www.amfed.org/rules/rules.htm>. I agree to leave my exhibit on display until 4:00pm Sunday, September 21, 2025.**

Exhibitor Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Print Name: \_\_\_\_\_

If Junior Entry, date of birth: \_\_\_\_\_

Convention Package — continued from page 21

# 2025 RMFMS Convention

## NON-COMPETITIVE EXHIBIT ENTRY FORM

The completed form is due by **Friday, August 29, 2025**, and it must be signed and dated.

Email to the completed form to Steve Cable, [president@grandjunctionrockclub.org](mailto:president@grandjunctionrockclub.org)

or mail it to RMFMS c/o GJGMC, P.O. Box 953, Grand Junction, CO 81502

Name: \_\_\_\_\_ Phone: \_\_\_\_\_

Mailing Address: \_\_\_\_\_

Email: \_\_\_\_\_

Name of Club/Society: \_\_\_\_\_

Exhibits provided by Club members are an important part of the gem and mineral show, and we appreciate the time and effort necessary to put an exhibit together. For the 2025 Show we are encouraging exhibitors to display rocks, minerals and/or fossils from their areas and/or present their individual lapidary skills.

Please provide a description of your display: \_\_\_\_\_

*There will be 24-hour building security however neither the Mesa County Fairgrounds, RMFMS, or the GJGMC nor their affiliates assume any responsibility for loss or damage.*

### EXHIBIT CASE AND SPACE INFORMATION

I will use my own case: Yes \_\_\_\_\_ No \_\_\_\_\_

If I will use my own case, its dimensions are: Width \_\_\_\_\_ Height \_\_\_\_\_ Depth \_\_\_\_\_

Do you need a case provided? Yes \_\_\_ No \_\_\_ Provided cases are 40' wide x 24" tall, and 18" deep at the top and 23.75" deep at the bottom.

All cases will be assigned space on tables 30" high. Bring your own risers if needed. If your case has its own stand, please let us know. \_\_\_\_\_

Exhibit Set up Time: **Friday, Sept 19, 2025, 9am-11am.**

**By signing below, I agree to set up my display Friday, Sept 19, 2025, and leave my exhibit on display until 4 pm Sunday, Sept 21, 2025.**

Exhibitor Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Print Name: \_\_\_\_\_

If Junior Entry, date of birth: \_\_\_\_\_



# **2025 RMFMS Convention**

## **Junior Competition**

To encourage the Juniors of the member clubs to participate in the acquisition of material in the field, and the identification and preparation of items for exhibit, the RMFMS has established the Junior Program Cash Awards.

There shall be two awards given each year at the annual Convention. Award One of \$50.00 shall be for juniors age twelve (12) and younger. Award Two of \$50.00 shall be for juniors age thirteen through seventeen. Each junior may enter one exhibit only in one of the following four categories: 1) Minerals 2) Lapidary 3) Petrified Wood & Fossils, or 4) Jewelry (Using specimen collected in the field)

Each entry shall have a label showing the name of the location (county and state) where the specimen was collected, the name of the specimen (as listed in the AFMS Approved List of Minerals, Lapidary Materials or Fossils), and the name of the junior's club. In the case of fossils, the period of the specimen shall be shown. Each entry shall be mounted on either a base or stand to best display the specimen.

The judges use the following criteria in judging the entries:

- \* Labels: 20 points, all categories. Judging neatness, completeness and correctness of information.
- \* Quality of Material: 30 Points
  1. Minerals Completeness and condition of specimen, i.e. freedom from flaws, size and color of specimen.
  2. Lapidary: Freedom from flaws, color and pattern and suitable hardness for use.
  3. Fossils: Extent to which specimen may be free of matrix, sufficient amount of specimen to identify classification of specimen and detail present.
  4. Jewelry: Specimens, i.e. Lapidary, Minerals or Fossils, will be judged the same as their counterparts in the other categories.
- \* Workmanship 50 points
  1. Minerals: Skill of junior in preparing specimen for exhibit such as removing matrix, cleaning, mounting on base in attractive manner etc.
  2. Lapidary: Skill of junior in preparing specimen for exhibit such as shaping and polishing mounting on base in attractive manner etc.
  3. Fossils: Skill of junior in preparing specimen for exhibit such as removing matrix, cleaning, mounting on base in attractive manner etc.
  4. Jewelry: Skill of junior in preparing collected specimen for use in either a commercial or handmade finding for jewelry.

Convention Package — continued from page 23

# **2025 RMFMS Convention**

## **JUNIOR CASH AWARD ENTRY FORM**

A Junior is defined as an exhibitor who is at least eight years old but has not yet reached the age of eighteen years as of the opening day of the show,

The completed form is due by **Friday, August 29, 2025**, and it must be signed and dated.

Email to the completed form to Steve Cable, [president@grandjunctionrockclub.org](mailto:president@grandjunctionrockclub.org)

or mail it to RMFMS c/o GJGMC, P.O. Box 953, Grand Junction, CO 81502

Name: \_\_\_\_\_ Phone: \_\_\_\_\_

\

Mailing Address: \_\_\_\_\_

Email: \_\_\_\_\_

Name of Club/Society: \_\_\_\_\_

Exhibit Space Required: \_\_\_\_\_

Example: If the specimen is mounted on a piece of plastic that is 4 x 5 inches and the label is 2 x 4 inches then the exhibit will be 6 x 5 inches.

The Award will be presented with a ribbon denoting Outstanding Junior at a ceremony at the annual Awards Banquet.

Certification: I certify that I collected and performed all work on this specimen and that I am a member of a RMFMS club.

Junior Member's Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Parent/Guardian Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Convention Package — continued from page 24



## Rocky Mountain Federation of Mineralogical Societies **Credentials for Delegates and Alternate**

**Society Name** \_\_\_\_\_

**City** \_\_\_\_\_ **State** \_\_\_\_\_

**Delegate** \_\_\_\_\_  
(Please print name)

**Delegate** \_\_\_\_\_  
(Please print name)

**Alternate** \_\_\_\_\_  
(Please print name)

The above-named Delegates or Alternate have been chosen to represent this Society at the Annual House of Delegates Meeting of the Rocky Mountain Federation of Mineralogical Societies at the House of Delegates Meeting to be held at:  
Grand Junction, CO, Sept 19-21, 2025.

Signed by Elected Club Official: \_\_\_\_\_

Date: \_\_\_\_\_

Please Note: Delegates will only be allowed to vote if their Society is in good standing (see By-Law, Article X -Eligibility).

Reference: Articles of Incorporation, Article III, Membership  
By-Laws, Article XII, Credentials of Delegates  
By-Laws, Article XIII, Use of Proxies

This completed form must be returned to the RMFMS Credentials Committee Chair no later than One Hour before the Delegates Meeting.

If mailing prior August 29, 2025, mail to:

**Roberta Wagle**  
**Credentials Chair**  
**21402 E. Pecan Dr.**  
**Catoosa, OK 74015**  
**OR email to: [waglemom@gmail.com](mailto:waglemom@gmail.com)**

After August 29, 2025, please bring this signed form with you and give to the Credential Chair at the Credentials Check-in location.



Convention Package — continued from page 25



## Rocky Mountain Federation of Mineralogical Societies **PROXY FORM**

**Society Name** \_\_\_\_\_

**City** \_\_\_\_\_ **State** \_\_\_\_\_

does hereby appoint:

(Please print name): \_\_\_\_\_

as Proxy Delegate with full power to represent this Society at the annual House of Delegates Meeting, of the Rocky Mountain Federation of Mineralogical Societies, to be held at to be held at:

Grand Junction, CO, Sept 19-21, 2025.

**Society Board Member:** \_\_\_\_\_

**Date:** \_\_\_\_\_

This completed form must be returned to the RMFMS Credentials Committee Chair no later than One Hour before the Delegates Meeting.

If mailing prior August 29, 2025, mail to:

**Roberta Waggle**

**Credentials Chair**

**21402 E. Pecan Dr.**

**Catoosa, OK 74015**

**OR email to: [waglemom@gmail.com](mailto:waglemom@gmail.com)**

After August 29, 2025, please bring

this signed form with you and give to the Credential Chair at the Credentials Check-in location.



### Where in the RMFMS is Rocky? — Answers

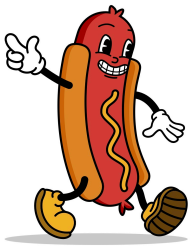
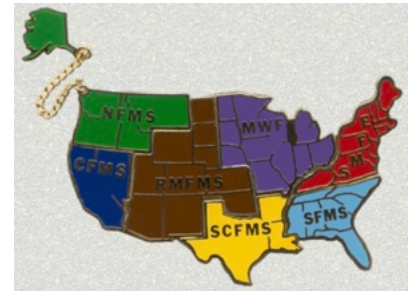
Linda Jaeger, Editor

We have clubs from 13 states in the RMFMS. Have you been there? Do you recognize the photos from the areas shown this month? **I would love for you to send an awesome photo from your state with a caption and location to print!** RMFMS has amazing country and activities to fill your senses.

Here are the answers for the photos on pages 4, 12, and 17:

- page 4: Mormon Row barn, Grand Teton National Park, **Wyoming**
- page 12: Ouray County west of Ridgway, **Colorado**
- page 17: Round barn in Arcadia, **Oklahoma**

Look for more beautiful locations next month from our member states: Arizona, Arkansas, Nebraska, New Mexico, Nevada, North Dakota, South Dakota, Texas, Utah, Wyoming.



### Hot Links – Editor's Picks

Linda Jaeger, Editor

Below are some hot links you might find interesting. Just click on the link — it will open the web page in your browser.

- **Researchers uncover extremely rare mammoth tusk at West Texas ranch**  
<https://www.mysanantonio.com/lifestyle/outdoors/article/extinct-mammoth-tusk-texas-ranch-20217063.php>
- **70-million-year-old fossil of largest North American dinosaur discovered in Texas**  
<https://interestingengineering.com/science/alamosaurus-fossil-unearthed-in-texas>
- **Teen Discovers 34,000-Year-Old Mastodon Jaw in Iowa Farm Creek**  
<https://indiandefencereview.com/teen-34000-year-old-mastodon-jaw-in-iowa/>
- **Spiral starburst galaxy glows in gorgeous Hubble Telescope image**  
<https://www.space.com/space-exploration/hubble-space-telescope/spiral-starburst-galaxy-glows-in-gorgeous-hubble-telescope-image>

## Upcoming Shows and Events in the RMFMS

5/2-4/2025	McPherson Gem & Mineral Club	McPherson County 4-H Building, 710 Woodside, McPherson, KS	Larry Hackney, larryrocks538@gmail.com; website: <a href="http://www.mcphersongemandmineralclub.org">www.mcphersongemandmineralclub.org</a>
5/3-4/2025	Southern Nevada Gem & Mineral Society	Recreation Ctr/gymnasium at Boulder City Spring Jamboree, 900 Arizona St, Boulder City, NV	Orville Wiemers, Jr, sngmsjamboreeshowchair@gmail.com; website: <a href="http://www.sngms.org">www.sngms.org</a>
5/3-4/2025	Mohave County Gemstoners	Mohave County Fairgrounds, 2600 Fairgrounds Blvd, Kingman, AZ	Daina Sandhop, 425.268.9983, ddaes1961@hotmail.com; website: <a href="http://www.gemstoners.org/">http://www.gemstoners.org/</a>
5/16-18/2025	Cache Rock & Gem Club	Cache County Events Center, 450 South 500 West, Logan Utah	Brett Fonnesbeck, crgc.showmanager@gmail.com; website: <a href="http://cacherockandgemclub">cacherockandgemclub</a>
5/17-18/2025	Cheyenne Mineral & Gem Society	Archer Complex - Bldg M, Just South of Exit 370 on I-80, 6 mi. east of Cheyenne, WY	Jan Shively, 509.953.0634
5/30-31/2025	Big Horn Basin Rock Show	Park County Fairgrounds, Powell, WY	<a href="http://www.BighornBasinRockShow.com">www.BighornBasinRockShow.com</a>
6/6-8/2025	Colorado Springs Mineralogical Society	Norris Penrose Event Center, 1045 Lower Gold Camp Rd, Colorado Springs, CO	Lisa V. Cooper, 719.351.4018; email: <a href="mailto:ppgmjshow@gmail.com">ppgmjshow@gmail.com</a> ; website: <a href="http://www.PikesPeakGemShow.com">www.PikesPeakGemShow.com</a>
6/13-15/2025	Sublette County Rockhounds	Sublette County Fairgrounds Event Center, 10937 Hwy 189, Big Piney, WY	Jim Gray, 307.260.6443; email: <a href="mailto:jimgray@wyoming.com">jimgray@wyoming.com</a>
6/20-22.2025	Southern Teller County FG	Victor Gem & Mineral Show, Victor, CO	STCFG.com
7/12-13/2025	NCRC, Casper, WY	77th Annual Gem & Mineral Show, Best Western, 123 West E St, Casper, WY	Mac Goss, 307.439.9873; email: <a href="mailto:macogre13@yahoo.com">macogre13@yahoo.com</a>
7/26-27/2025	Western Dakota Gem & Mineral Society	Central States Fairgrounds, Rapid City, SD, Nerdy Nuts Expo Hall	<a href="mailto:WestDakota.Rocks@gmail.com">WestDakota.Rocks@gmail.com</a>
8/7-10/2025	Beuna Vista Contin-Tail Gem, Mineral & Fossil Show	Buena Vista Rodeo Grounds, Gregg Drive, Buena Vista, CO	Lisa Cooper, 719.351.4018; email: <a href="mailto:bvrockshow@gmail.com">bvrockshow@gmail.com</a> ; <a href="https://bvrockshow.com/">https://bvrockshow.com/</a>
8/15-17/2025	Lake George Gem & Mineral Club	Lake George, CO Hwy 24, East of the Post Office, 4 mi. W or Florissant	Carol Kinate, 719.648.9015; email: <a href="mailto:kinatec@aol.com">kinatec@aol.com</a> ; <a href="http://lggmclub.org">lggmclub.org</a>
9/3-5/2025	Albuquerque G&M Club	Expo NM State Fairgrounds, 300 San Pedro NE - enter at Gate 3 at San Pedro & Copper, Creative Arts Bldg, Albuquerque, NM	Jay Penn, 505.883.4195; email: <a href="mailto:jaypenn246@gmail.com">jaypenn246@gmail.com</a> ; <a href="http://abqfallshow.wix.com/abq-fall-show">http://abqfallshow.wix.com/abq-fall-show</a>
9/19-21/2025	RMFMS/Grand Junction Gem & Mineral Club	79th Annual Mineral & Rock Show, hosting the RMFMS Convention, Mesa County Fairgrounds, 2785 US-50, Grand Junction, CO 81503	<a href="http://www.grandjunctionrockclub.org/shows">www.grandjunctionrockclub.org/shows</a>
9/24-26/2025	Oklahoma Mineral & Gem Society	OKC State Fair Park, Modern Living Bldg, 608 Kiamichi Place, Oklahoma City, OK	Douglas Pollitt, email: <a href="mailto:douglas.pollitt@yahoo.com">douglas.pollitt@yahoo.com</a> ; <a href="http://omgs-minerals.org">omgs-minerals.org</a>

If your club has show information that you would like to have listed in the *Rocky Mountain Federation News*, please email the information to the editor (including show flyers) — <LJGRALG at aol.com>. As with many of the other email addresses in the newsletter, you will need to remove the chevrons, < >, and replace the spaces and the "at" with the correct symbol, @ .



Below are upcoming regional federation shows:

	California Federation	Eastern Federation	Midwest Federation	Northwest Federation	Rocky Mountain Federation	South Central Federation	Southeast Federation
2025	Lancaster, CA May 10-11	<b>AFMS/EFMLS</b> <b>Hickory, NC</b> <b>March 28-30</b>	Lincoln, NE April 5-6	Walla Walla, WA Sept. 5-7	Grand Junction, CO Sept. 19-21	Austin, TX Oct 17-19	Norcross, GA Sept 12-13
2026			<b>AFMS/MWF</b> <b>St. Charles, IL</b> <b>May 23-24</b>		Tulsa, OK July 17-19		

**26TH ANNUAL  
CHEYENNE MINERAL &  
GEM SHOW**

**MAY 17 & 18, 2025**  
SAT 9-5, SUN 10-4  
CHILDREN 12 & UNDER FREE

**EXHIBITS, JEWELRY, FOSSILS  
MINERALS, SILENT AUCTION  
DEALERS, CHILDRENS AREA  
FLINT KNAPPERS**



HOSTED BY CHEYENNE MINERAL &  
GEM SOCIETY  
SHOW INFORMATION: JAN SHIVELY  
509-953-0634

FREE COLORING BOOKS FOR KIDS

**2025 BIG HORN BASIN  
ROCK SHOW**

Admission \$5.00 May 30-31 Kids 12 & under Free

**ROCKS • MINERALS  
JEWELRY • FOSSILS  
KIDS' ACTIVITIES  
EDUCATIONAL DISPLAYS**

Park County Fairgrounds / Powell, Wyoming  
1-7 p.m. Friday 9 a.m. - 5 p.m. Saturday  
[www.BighornBasinRockShow.com](http://www.BighornBasinRockShow.com)

#### Reminder:

Advertise your Show in as many Free locations as possible!

- Local newspapers
- Current events sections!
- Local TV stations
- Community Calendars
- Other local shows

#### Advertise in the Rock & Gem Magazine!

Send the information in early so it's published in the magazine as well as online:

[www.rockngem.com/showdate-submissions/](http://www.rockngem.com/showdate-submissions/)

Info from CFMC Newsletter, April 2024





61<sup>st</sup> Annual  
**PIKES PEAK**  
Gem, Mineral & Jewelry Show  
**JUNE 6-8, 2025**  
Norris Penrose Event Center

This year's theme is **BERYL**



## THE 5TH PHOENIX HERITAGE MINERAL SHOW

**JUNE 6-8, 2025**

Phoenix Shrine Auditorium | 552 N. 40<sup>th</sup> St., Phoenix, AZ

### SHOW THEME: COPPER

The only quality mineral show in the Phoenix area bringing exceptional minerals to the discerning mineral collector!

Show also includes high-quality gemstones, jewelry, and fossils!

#### SHOW HOURS

Friday & Saturday:  
10:00 am to 6:00 pm

Sunday:  
10:00 am to 4:00 pm

Museum, Guest and Competitive Mineral Exhibits with Awards!

### COMPETITIVE AWARDS

#### BOB JONES TROPHY

Best Display of Minerals

#### DAVID SHANNON TROPHY

Best Display of Field Collected Minerals

#### ARTHUR L. FLAGG TROPHY

Best Display of Minerals (Junior)

#### BEST OF THEME AWARDS

Thumbnail-Miniature  
Small Cabinet-Cabinet

Show Produced by Mineralogical Society of Arizona

MSA Website: [msaaz.org](http://msaaz.org)

Facebook: [MineralogicalSocietyofArizona](https://www.facebook.com/MineralogicalSocietyofArizona)

Instagram: [msaclub1935](https://www.instagram.com/msaclub1935)

Dealer Information: [show@msaaz.org](mailto:show@msaaz.org)

Visitor Information: [MSAClub1935@msaaz.org](mailto:MSAClub1935@msaaz.org)

Exhibitor Information: [MSAClub1935@msaaz.org](mailto:MSAClub1935@msaaz.org)



**VICTOR**  
**GEM AND MINERAL SHOW**  
**JUNE 20-22, 2025**  
**FREE ADMISSION**  
VISIT [STCFG.COM](http://STCFG.COM) FOR DETAILS VICTOR, COLORADO

NCRC PRESENTS  
77TH ANNUAL GEM & MINERAL SHOW  
July 12-13, 2025  
Sat 9-5 • Sun 9-4



Actual  
Raffle  
Item

Admission \$3  
Under 12 free

**Best Western**  
**123 West E St**  
**Casper WY**

Raffle: Citrine Cathedral,  
and much more

Silent Auctions: WY rocks in the rough

Door Prizes

Demonstrations: Cabbing Demo

Come see Lapidary Gary

Contact: Mac Goss 307.439.9873 [macogre13@yahoo.com](mailto:macogre13@yahoo.com)



**Payson Rimstones Rock Club**  
**Gem & Mineral Show**  
**Sept 19-21, 2025**  
Fri 1-6 Sat 9-5 Sun 10-4  
Mazatzal Hotel and Casino

Vendors  
Rocks  
Slabs  
Fossils  
Jewelry & Art  
Polished Rocks

Education & Kids Area  
Fluorescents Tent  
Auctions, Raffles  
Gold Panning

Ammonite Fossil

\$5 Adults  
\$3 Friday  
Kids under  
13 are FREE

**27th ANNUAL SHOW**  
**Payson, Arizona**

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## 2024-2025 Executive Committee – *composed of the Officers & the State Directors*

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### Officers:

President	Jim Gray	<jimgray at wyoming.com>
Vice President	Steve Kaminski	<scsckamin at gmail.com>
Secretary	Liz Thomas	<mygemsrock at gmail.com>
Treasurer	Gene Maggard	<gandpmaggard at gmail.com>
Historian	Cinda Kunkler	<cindakunkler at att.com>
Past President	Bob Regner	<Rnregner at aol.com>
Past President	Richard Jaeger	<RjgrSci at aol.com>

### State Directors:

AZ/NV	Jodi Brewster	<jodibrewster66 at gmail.com>
CO		<>
KS	Larry Beck	<Lkbeckfam at gmail.com>
ND/SD/NE	Lori Loomis	<sdnestatedirector at gmail.com>
NM/TX	Donna Regner	
OK/AR	Roberta Wagle	<waglemom at gmail.com>
UT	Tracy Jensen	<tracyjensen0515 at gmail.com>
WY	Leane Gray	<lgray at wyoming.com>

**Please note:** All email addresses are enclosed in chevrons, < >, and the @ symbol has been replaced by the word "at" with a space before and after the word. This is to prevent bots from picking up our email addresses. You will need to remove the chevrons and replace the word "at" and the two spaces with the @ symbol to have the correct email.



## 2024-2025 Committee Chairs

ACROY (AFMS Club Rockhound of the Year)	Chris Whitney-Smith	<ask.chrisws at yahoo.com>
All American Club	Roberta Wagle	<waglemom at gmail.com>
BEAC (Bulletin Editors Advisory Committee) & Bulletin Editors Contest	Linda Jaeger	<LJGRALG at aol.com>
Boundaries	DeLane Cox	<delanec3 at earthlink.net>
Convention Advisor	Liz Thomas	<mygemsrock at gmail.com>
Credentials	Roberta Wagle	<waglemom at yahoo.com>
Directory	Lori Loomis	<riggsoldchap at yahoo.com>
Editor of Newsletter	Linda Jaeger	<LJGRALG at aol.com>
Finance	Wayne Cox	<WayneC3 at earthlink.net>
Fluorescent Tech	Brian Walko	<bwalko at earthextractions.com>
Fossils Tech	Mike Nelson	<csrockguy at yahoo.com>
Gold Pan Award	Richard Jaeger	<RjgrSci at aol.com>
Insurance	Gene Maggard	<gandpmaggard at gmail.com>
International Relations	Mike Nelson	<csrockguy at yahoo.com>
Juniors Program	Michelle Cauley	<michelle.cauley at dakotacollege.edu>
Lapidary Tech		
Long Range Planning	Liz Thomas	<mygemsrock at gmail.com>
Long Range Planning	Richard Jaeger	<RjgrSci at aol.com>
Long Range Planning	Judy Beck, chair	<Lkbeckfam at gmail.com>
Mineralogical Tech	Mike Nelson	<csrockguy at yahoo.com>
Name Badges	Richard Jaeger	<RjgrSci at aol.com>
New Program Contest	Gene Maggard	<gandpmaggard at gmail.com>
Nominating Committee	Bob Regner	<Rnregner at aol.com>
Nominating Committee	Liz Thomas	<mygemsrock at gmail.com>
Nominating Committee	Jim Gray	<jimgray at wyoming.com>

*continued on next page*

## 2024-2025 Committee Chairs – *continued*

Parliamentarian	Gene Maggard	<gandpmaggard at gmail.com>
PLAC - AZ		<>
PLAC - CO	Mike Nelson	<csrockguy at yahoo.com>
PLAC - KS	Mike Nelson	<csrockguy at yahoo.com>
PLAC - NM/TX		
PLAC - OK/AR		<>
PLAC - ND/SD/NE	Lori Loomis	<sdnestatedirector at gmail.com>
PLAC - UT/NV		<>
PLAC - WY	Greg Jones	<wyojones at wyjones.com >
President's Hat	all past presidents	
Program Library	Gene & Peggy Maggard	<gandpmaggard at gmail.com>
Public Relations	DeLane Cox	<delanec3 at earthlink.net>
Resolutions		
Ribbons	Jenelle Hopkins	<Jhopk67328 at aol.com>
Safety	Jodi Brewster	<rmfmssafety2024@gmail.com>
Scholarship Committee	Richard Jaeger	<RjgrSci at aol.com>
Stationery/Trophies	Ben Thomas	<myretirementrocks at gmail.com>
Supplies	Roberta Wagle	<waglemom at gmail.com>
Uniform Rules	Lee Whitebay	<lwhiteba at gmail.com>
Uniform Rules	Leon Reeder	<leonreeder47 at yahoo.com>
Uniform Rules	Les Presmyk	<presmyk at cox.net>
Webmaster	Tyler Jacobsen	<webmaster at rmfms.org>
Website Contest	Leane Gray	<Lgray at wyoming.com>

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## RMFMS Purpose & Policies – *Excerpts from 2023 Directory (Revised)*

- To bring about a closer association of the Earth Science Groups in the Rocky Mountain region.
- To increase and disseminate knowledge about minerals and other geologic materials.
- To encourage mineral study, collecting, and fashioning as a HOBBY.
- To sponsor local organizations interested in similar purposes.
- To encourage all clubs to publish bulletins and newsletters.
- To continue building up and promoting the use of the Federation Library of slide programs, videos, CDs, and DVDs to each member club.
- To distribute information and suggestions on the preparation and arrangement of specimens and materials for exhibit and display.
- To provide information and assistance to clubs holding Gem and Mineral Shows.
- To encourage clubs to support the American Federation of Mineralogical Societies Scholarship Foundation Fund.

### AFMS Code of Ethics

- I will respect both private and public property and will do no collecting on privately owned land without the owner's permission.
- I will keep informed on all laws, regulations or rules governing collecting on public lands and will observe them.
- I will, to the best of my ability, ascertain the boundary lines of property on which I plan to collect.
- I will use no firearms or blasting material in collecting areas.
- I will cause no willful damage to property of any kind—fences, signs, buildings.
- I will leave all gates as found. I will build fires in designated or safe places only and will be certain they are completely extinguished before leaving the area.
- I will discard no burning material—matches, cigarettes, etc.
- I will fill all excavation holes, which may be dangerous to livestock.
- I will not contaminate wells, creeks or other water supply.
- I will cause no willful damage to collecting material and will take home only what I can reasonably use.

- To promote the concept that all members of all clubs are members of the RMFMS and the AFMS, and to encourage individual members and clubs to take responsibility for asking questions or making known that help is needed. To encourage more contacts between those working at the Federation level, between clubs, and between club members.
- To keep the members informed of problems and activities regarding the use of Public Lands.
- To continue to support Federation-sponsored programs.

The Rocky Mountain Federation is composed of a membership of approximately 14,000 members in the following states: Arizona, Arkansas, Colorado, Kansas, Nebraska, New Mexico, Nevada, North Dakota, Oklahoma, South Dakota, Texas, Utah, and Wyoming.

The work of the Federation is directed by the Executive Committee, composed of: President, Vice-President, Secretary, Treasurer, Historian, State Directors, and the two immediate Past-Presidents.

**Reminder — next RMF Newsletter is the May 2025 issue. Deadline for articles is April 15, 2025.**

- I will practice conservation and undertake to utilize fully and well the materials I have collected and will recycle my surplus for the pleasure and benefit of others.
- I will support the rockhound project H.E.L.P. (Help Eliminate Litter Please) and will leave all collecting areas devoid of litter, regardless of how found.
- I will cooperate with field trip leaders and those in designated authority in all collecting areas.
- I will report to my club or Federation officers, Bureau of Land Management, or other authorities, any deposit of petrified wood or other materials on public lands which should be protected for the enjoyment of future generations for public educational and scientific purposes.
- I will appreciate and protect our heritage of natural resources.
- I will observe the "Golden Rule," will use "Good Outdoor Manners" and will at all times conduct myself in a manner which will add to the stature and public image of rockhounds everywhere.

