

Jade State News

Wyoming State Mineral & Gem Society, Inc.

Award-Winning WSMGS Website: wsmgs.org

Volume 2020, Issue # 1



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The WSMGS conducts meetings quarterly and as special events require.

Geological Wonders of Wyoming

By Stan Strike

RMFMS WY State Director

Wyoming is divided into 23 counties, and each county has unique geological features that offer textbook examples to view and explore. Fortunately, there is a website that includes many of these Wyoming Geological Wonders. This website—www.geowyo.com—was developed by Ken Steele, Mark Fisher, and Debbie Steele.

The authors have done an excellent job of including educational photos, charts, and explanations for the geological features within selected counties of Wyoming. The following is a listing of geological features and viewing sites in Wyoming counties that are currently included on this website. You are invited to utilize this website to travel Wyoming and learn about its Geological Wonders.

(Continued on Page 2)

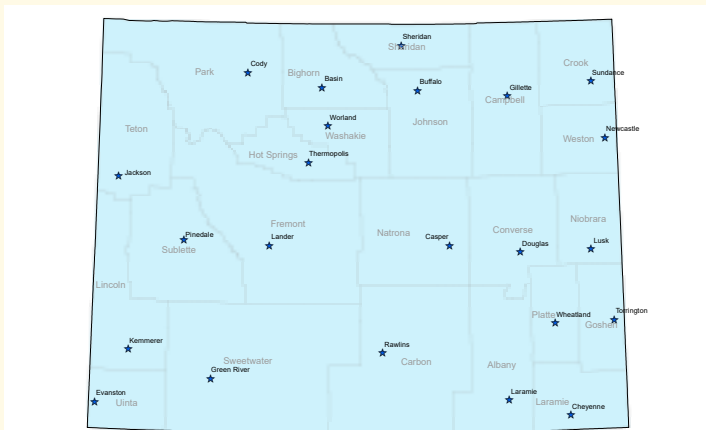


The Teton Mountains in northwest Wyoming are among the geological wonders you will find on www.geowyo.com. JSN photo by Ilene Olson

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Geological Wonders of Wyoming (Continued from Page 1)



Wyoming counties and county seats. Source: Wyoming State Geological Survey

Here are some Geological Wonders you'll find on www.geowyo.com:

Albany-Laramie Counties

Big Hollow, Snowy Range, Como Bluff, Vedauwoo, WY Diamond

Bighorn County

Ancient River Channel / Sheep Mountain, Bighorn Canyon, Bighorn Mountain Byways, Bighorn River Caves, Devil's Kitchen, Medicine Lodge Tensleep Sandstone, Red Gulch Backcountry Byway, Red Gulch Dinosaur Tracksite/Sundance Seaway, Shell Dinosaur Bone Beds

Crook County

Devil's Tower/Black Hills



Devils Tower, in Crook County, in northeastern Wyoming, stands tall and massive, bathed in golden sunlight. Photo courtesy of David M. Porter

Fremont County

Sinks Canyon, South Pass, Gas Hills/ Crooks Gap, Red Canyon

Goshute County

Fort Laramie, Hartville Uplift

Hot Springs County

Anchor Dam, Dinosaur Marbles, Thermopolis Hot Springs, Wind River Canyon

Johnson County

Hole In The Wall, Red Wall Country



A dramatic sunset at Vedauwoo State Park near Laramie paints splashes of red on rocks left eons ago by a retreating glacier. JSN photo by Ilene Olson

Lincoln County

Periodic Spring, Fossil Butte

Natrona County

Granite Mountains, Rattlesnake Hills, Casper Mountain, Hells Half Acre

Park County

Absaroka Volcanic Province, Buffalo Bill Dam/Rattlesnake Mountain, Clarks Fork Canyon, Cody Hydrothermal System, Dead Indian Hill, The Great Unconformity, Heart Mountain, Kirwin, Oregon Basin Field, McCullough Peaks, Polecat Bench/PETM, Tatman Mountain/ Squaw Peaks, Sunlight Basin

(Continued on Page 3)

Geological Wonders of Wyoming (Continued from Page 2)



Red Canyon, near South Pass in Fremont County. JSN photo by Ilene Olson

Sheridan County

Bighorn Mountains, Byways

Southeast Wyoming

Platte River & Dams

Southern Powder River Basin

K-T Boundary

Sweetwater County

Leucite Hills, Flaming Gorge, Lake Gosiute, The Blue Forest

Teton County

Gros Ventre Range/Granite Hot Springs, Two Ocean Pass/Parting of the Waters, North Tetons

Washakie County

Big Cedar Ridge, Castle Gardens, Tensleep Canyon/Sweet 16

If you wish to look a Geological Wonder over before

you travel to it, use your web browser to enter https://satellites.pro/Wyoming_region_map, then use its search feature to enter the name of the Geological Wonder or the nearest landmark. Zoom in [+ or -] using a satellite to take a closer look. Experiment with the options under "Switch View," such as Street View, On-site weather conditions, etc.

If you're interested in a specific Wyoming Geologic Wonder, you may want to put it on your bucket list to visit. Don't forget to take some pictures of your Wyoming Geological Wonders to share with other rock hounds as you travel across Wyoming.



Flaming Gorge, in southwest Wyoming. Photo courtesy of Angie Robinson

Adapted References:

1. Geology of Wyoming: www.geowyo.com
2. WY Map with Towns: <http://sangres.com/wyoming/places/index.htm> - .XjBHzpJ3WPc
3. Wyoming Google Map: https://satellites.pro/Wyoming_region_map

Club Health Checkup

It is that time of year when club officers are elected and members are asked to pay their dues for another year. The health of your club is not only measured by the # of new members and the # of members who rejoin but if your club addresses these questions:

- ___ Does your club encourage & support new officers?
- ___ Is your club structured to allow your members to participate on committees and in meetings?
- ___ Are your club programs related to your club's objectives?
- ___ Do your members share/show their "finds" & their finished lapidary products?
- ___ Does your club continue to educate its members?
- ___ Do your members have the opportunity to learn lapidary skills?
- ___ Is your club membership a mixture of retirees, working persons, & school age students?
- ___ Does your club provide field trips to new collecting sites and to those visited in the past?

Source: Jade State News, November 2013, Page 15

How to Clean Geodes

A geode is a rock that contains crystals in a hollow cavity. When geodes are split open, you can see the crystals inside the rock. If you found a geode, you'll need to clean it so it shines. Cleaning a geode is easy and can be done with a few household materials like laundry detergent. When you're done cleaning, sand your geode to give it a nice shine.

Doing a routine cleaning

Step 1 — Wash the geode with laundry detergent and water. You don't use harsh chemicals to clean a geode. Stick to a simple mixture of water and laundry detergent. Mix a splash of laundry detergent with warm water and gently swab the geode with a toothbrush. As the geode will need to soak to get completely clean, you will not be able to get off all the dirt and debris in the first round of cleaning.

Step 2 — Soak the geode in bleach for a day. Mix a tub of water with a quarter cup of any household bleach.. Submerge the geode in the bleach and let it soak for 24 hours.. Make sure to wear gloves when handling bleach.

Step 3 — Clean the geode with a toothbrush and denture clean-

er. After the geode has soaked, you can wash off the remaining dirt and debris. You can buy denture cleaner at most department stores. Use denture cleaner and a soft-bristle toothbrush to scrub off any remaining dirt stuck to the geode. [Geodes have a lot of cracks and crevices. When cleaning the geode, make sure to get into these cracks to remove any dirt. Strive to be very thorough and inspect any crevices closely for lingering debris.]

Step 4 — Rinse your clean geode with warm running water while softly brushing it with a clean soft toothbrush to remove all of the denture cleaner. After drying, the geode should be ready to display.

Removing iron staining with wood bleach

Step 1 — Rinse your geodes. If iron residue is stuck on your geode, you will need to soak it in wood bleach to clean it. To start, give your geode a light rinsing under the faucet to remove any dirt or debris.

Step 2 — Put on protective gloves and goggles. Wood bleach can be very harmful to the hands and eyes. Safety precautions are important if you're working with wood bleach, so throw on a pair of gloves and goggles before handling the bleach.

Step 3 — Mix a cleaning solution. Typically, to soak a geode, you should mix an eighth cup of wood bleach in five quarts of water. However, make sure to read the label on the bleach you purchased. Some bleaches may need to be diluted more than others.

Step 4 — Soak the geode in wood bleach for a few hours. Submerge your geode completely in the wood bleach mixture. Allow it to soak for around two to three hours before checking on it. If the iron is gone, you can remove the geode at this point. Keep soaking the geode until it's clean. If there is still iron on the geode, check it again in about half an hour. Be vigilant about checking the geode frequently until the iron is removed. Letting the geode linger in wood bleach for too long can harm the geode.

Step 5 — Wash the geode with warm water. After the iron is removed, take the geode out of the bleach solution. Wash off the bleach by running the geode under warm water. [Make sure to wear gloves when removing the geode from the bleach.] After drying, the geode should be ready to display.

Adapted Reference: www.wiki-how.com/Clean-Geodes

Suggestions for Clubs During Winter Months

Indoor Field Trips

Wintertime is ideal for indoor activities. When the weather is too cold (or too hot or too wet), keep your club moving with indoor field trips. Attend local museums, view rock-hound films, visit local rock hounds, shop and learn at area rock shops, do activities for kids, preschools or disabled adult groups, etc.

Lapidary Time

Now is the time to sort, organize and prepare your finds from last spring, summer and fall for display — or you could end up with boxes of rocks that are soon forgotten. Perhaps club members with equipment would be willing to share and teach the necessary lapidary skills that would turn some of your finds into Gemstones!

Tumbled and Polished Gem Stones from Around the World

The following display is from www.rocktumbler.com. Rock hounds are encouraged to visit this website to learn more about specific stones of interest and to purchase any or all.



Which club member are you?

Are you an active member — the kind who would be missed?

Or are you just content that your name is on the list?

Do you attend meetings and mingle with the flock?

Or do you stay at home, criticize and knock?

Do you take an active part and help your club along?

Or are you satisfied to simply say that you belong?

Do you ever volunteer to help the guiding stick?

Or leave the work to just a few — then talk about the

clique?

Come out to the meetings, and help with hand and heart.

Don't just be a member, but take an active part!

Just think this over member — you know right from wrong: **ARE YOU AN ACTIVE MEMBER, OR DO YOU JUST BELONG?**

[From *Tropic Topics*, 1987, via *The Stone Age News* and *Jade State News*, February 1990 and November 2015]

Geology of Seminoe State Park

A publication of the Wyoming State Geological Survey



View looking east over Seminoe Reservoir. Red rocks in the foreground are Goose Egg Formation. Light-colored rocks making up the front of the mountains in the distance are Tensleep and Madison formations. All photos in this report are from wyoparks.state.wy.us/index.php/places-to-go/seminoe.

Welcome to Seminoe State Park, home to spectacular views of Wyoming geology. The geology exposed in this area ranges in age from 2.7 billion years old to active sand dunes, and records an exciting history of rock formation, uplift, and faulting.

Geologic History

The oldest rocks in Seminoe State Park lie at the north end of the park near Seminoe Dam. These rocks consist of granite and metamorphic rocks as old as 2.7 billion years (Precambrian). These Precambrian rocks make up the core of the Seminoe Mountains and serve as the anchor for Seminoe Dam. Within the park, you may find dense cobbles or boulders with red, yellow and black stripes; this rock is called "banded iron formation." These eroded from the Seminoe Mountains and are part of the Precambrian Seminoe iron-ore deposits explored for mining between 1870 and the 1960s, although no significant iron production occurred. Around 550 million years ago, these oldest rocks were uplifted from deep in the earth's crust and overlying rocks eroded away.

The Cambrian Flathead Sandstone (~540 million years old, or Ma) was deposited in seas and shallow streams on top of the older uplifted rocks, forming a geologic contact that represents a gap in the rock record known as an "unconformity." Approximately 2 billion years of time is missing at this unconformity.

Traveling south from the dam, you pass through increasingly younger rock units, such as the Mississippian through Pennsylvanian-age Madison, Amsden, and Tensleep formations (~360–310 Ma), which form distinctive, steep ridges of light-colored rocks throughout the area. These rock units originally formed in oceans and vast sand dune fields.

Bright red rocks that make up the North and South Red Hills campgrounds are composed of Permian- and Triassic-age Goose Egg, Chugwater, and Jelm formations (~295–201 Ma). Geologists call these red rocks "red beds," which are layers of sandstone, siltstone, and shale that get their red color from oxidation (or rusting)

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Geology of Seminoe State Park (Continued from Page 6)



Red Goose Egg Formation in contact with white Tensleep Sandstone. The sedimentary layers dip to the south as a result of the Laramide orogeny, a mountain-building event that occurred ~35–70 Ma.

of iron that naturally occurs in these sedimentary rocks.

A notable layer within these red beds is the gray-lavender, resistant Alcova Limestone that tops low red ridges near the campgrounds. This distinctive layer is called a “marker bed,” which crops out all over Wyoming.

The road to Sunshine Beach lies between two parallel resistant ridges. The Jurassic-age Sundance Formation (~166–157 Ma) forms the northern ridge; it contains dinosaur tracks and marine fossils including oyster shells and belemnites, which are bullet-shaped fossilized bodies of ancient squid-like creatures. The soft siltstone that Sunshine Beach Road sits on is part of the Jurassic-age Morrison

Formation (~145–156 Ma), which formed in rivers; the Morrison Formation contains dinosaur fossils at other locations.

The southern ridge is the Cretaceous-age Cloverly Formation (~100–126 Ma), which contains a distinctive quartz-pebble conglomerate. The Cloverly Formation was deposited in river and floodplain environments.

South of the ridge of the Cloverly conglomerate are

dark-gray shales and occasional tan sandstones of the Cretaceous-age Thermopolis, Mowry, and Frontier formations (~88–100 Ma). These formations were part of a seaway that covered much of North America during Cretaceous time.

All of the rock units listed above were uplifted and faulted into their current positions by the Laramide orogeny, a mountain-building event that occurred ~35–70 Ma.

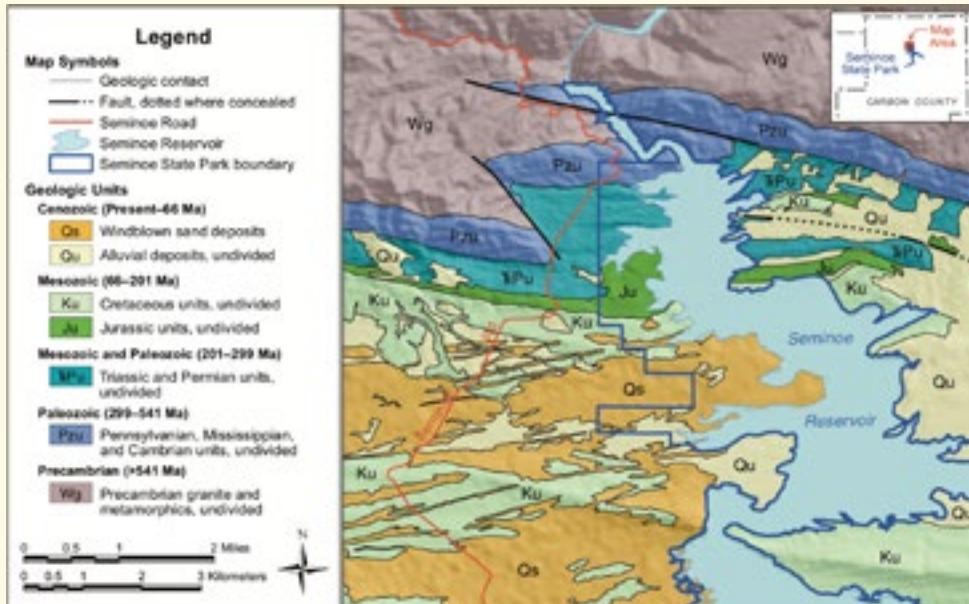
The Cambrian to Cretaceous sedimentary formations were horizontal at the time of their deposition; today the lithified layers are steeply tilted as a result of the faulting that formed the Rocky Mountains as we know them.

The youngest geologic features in Seminoe State Park are the sand dunes at the southern end of the park. The highest sand dune is actively migrating in the direction of prevailing winds (west to east).

Many smaller dunes are stabilized by vegetation, but they show an elongate east-northeast shape, visible on the geologic map, that indicates the common wind direction.

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Geology of Seminoe State Park (Continued from Page 7)



Bedrock geologic map of the northwest end of Seminoe State Park. Ages of rocks are in millions of years old (Ma). Source: Wyoming State Geological Survey

HYDROGEOLOGY

Seminoe Reservoir is designed to hold 1,000,000+ acre-feet (1 acre-foot=326,000 gallons) of water. Most streamflow to the reservoir originates as snowpack in the high-altitude headwater catchments of the nearby Medicine Bow, Sierra Madre, and Shirley mountains. Seminoe Reservoir's largest inflow is the North Platte River, an important tributary to the Missouri-Mississippi River System and a major source of municipal water for the cities of Rawlins, Casper, and Douglas, among numerous others.

The reservoir also receives flows from the Medicine Bow River and

several smaller streams.

Water flows between Seminoe Reservoir and the surrounding aquifers to form an integrated surface water/groundwater system. Reservoir water infiltrates the rock through porous voids between individual mineral

grains and through fractures and faults in the rocks.

The hydraulic communication between surface water and groundwater is observed by the similar water levels in the reservoir and area groundwater wells.

However, in some cases, groundwater flows from nearby aquifers into Seminoe Reservoir.

Precipitation infiltrates the surrounding exposed geologic formations at higher elevations and flows underground to discharge from springs on land or below the reservoir's water level. Several such springs discharge from the base of the Seminoe Mountains visible to the east.

Flows from these springs are highest for a few weeks after snowmelt and then decrease. By mid-summer, flows from these springs may be reduced to a trickle or dry up completely.



Faults offset tan sandstone layers within red shale of the Chugwater Formation.



For more information, visit: wyoparks.state.wy.us/index.php/places-to-go/seminoe

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Club News



2020 Rock Hound of the Year nominations due by April 1

It's time to nominate 2020 club and state rock hounds of the year. Nominations are due by April 1. That deadline allows sufficient time to prepare for the awards prior to the Wyoming State Mineral and Gem Show, which is scheduled this year from June 19-21.

WSMGS President Jim Gray previously emailed application forms to clubs. Please contact Jim at pres@ws-mgs.org if you have questions or need additional forms.

Cheyenne Mineral and Gem Society



Cali, January Finder of the Month

January Meeting

George Varhalmi of the Bureau of Land Management was our speaker at the January meeting. George is the Mining Law and Mineral Materials Program Lead. He talked about what you can and can't do on public lands. There is no limit to the amount of rock that you take so long as you are not selling it. He provided examples such

as using it for your personal rock garden or cutting and polishing for jewelry is fine so long as you are not selling it. The process of establishing a mining claim was also discussed.

Find of the Month-

It's tough this time of year to get out there and find a rock to compete in the "Find of the Month" club, so take advantage of those occasional nice days to get out there and see what you can find.

The winner of the January "Find of the Month" was Cali. She and her grandmother were first-time attendees and new members of the club.

The February meeting was a silent auction.

March meeting

Kevin Parks of the Cheyenne Fire Department is the speaker for March. Kevin will talk about first aid in the field.

The club is looking for a new president, vice president and someone to take over the newsletter.

The calendar is a work in progress, and hopefully will be done by next month.

The 2020 Cheyenne Mineral, Gem and Rock Show will be May 16-17, with setup on May 15. The venue has already been reserved, and Jan has been contacting vendors. Volunteers are needed, and a sign-up sheet will be passed around at the March and April meetings.

Some of the tasks include loading the trailer on the 14th of May, unloading and setting up on the 15th and then loading again on the 17th and unloading back at the Lil Ole Print Shop. We will need volunteers to run the silent auction, work security, take money at the door, etc. We are looking for someone to make sure we get the appropriate permits for our show signs, someone to put them up at the right time, someone comfortable and a good talker if we find any radio or TV opportunities. Please contact Jan.

(Club News continued on Page 10)

Club News (Continued from Page 9)

Sublette County Rock Hounds Club

November meeting

Thirty people attended. Jim Gray asked those present if they would like to participate in the annual parade of lights on Dec. 7 in Big Piney. There was general agreement that this would be good; so decorating the float (either Jim's 1934 truck or flatbed trailer) was scheduled to occur at Jim Gray's house the afternoon before the parade.

2020 Federation Show:

The 2020 RMFMS and State show will be the third weekend of June, the 19th, 20th, and 21st.

- Show theme: Rock & Roll with Wyoming Rocks: This theme facilitates judging the showcases entered. So far, Jim has secured commitments from Torrington, Casper, and Sublette clubs to enter showcases. He is continuing to encourage the Gillette, Cheyenne, and Riverton clubs to enter showcases.

- Jim and Leane submitted a Pinedale Travel & Tourism Commission grant application for assistance with advertising for 2020 show. The grant was approved for \$1,500 and Pinedale Travel & Tourism will assist us with advertising through all of their channels!

Photographing meetings and events: Jim asked members to remember to take pictures anytime the club gets together, and get those pictures to him for minutes, news articles, and the WSMGS Historian.

The annual Christmas potluck featured delicious food, white elephant gift exchange, ugly sweater contest, silent auction, door prize raffle, and a free rock giveaway to children. The ugly sweater contest was won by Christina Binning. The door prize, a polished double geode on white cedar stand, was donated by Jim and Leane Gray and won by Linda Trimmer.

The next meeting will be at 1 p.m. March 14 at the Senior Center. Bring silent auction and door prize items.

- Members, please submit ideas for topics for meetings. Jim described a change in format for the 2020 meetings to include a "pre-meeting" business meeting (everyone is welcome to attend if they would like) followed by a presentation by a member, outside speaker, or video/slide show that will increase our knowledge about minerals, rocks, fossils, geology, and lapidary. If any member would like to give a presentation, please get with Jim Gray.

- Members, please submit your dates and locations for field trips in 2020. Roger McMannis and Jim Gray will be compiling the field trip calendar. Recently some community members have offered access to their property for an organized club field trip; club board members will check these out for what might be found before the club goes.

Cody 59ers Rock Club

November meeting

The club welcomed our newest member, Cathy Haslett.

Mark Fisher gave a very informative talk and slide presentation on the Geologic History of the Bighorn Basin. Members are urged to go to the website: GeoWyo.com for more information and pictures detailing the geology of Wyoming.

Refreshments were provided by Doug and Iris.

A rock sale on November 9 sold 300 to 400 rocks, but not many members attended. Considering the work involved, having another sale is in doubt.

The Christmas party will be on December 19 at the Holiday Inn in Cody. There will be "goodie bags," a gift exchange and perhaps door prizes.

Election of Officers

The club elected the following officers for 2020:

President, Greg Jones; Vice President, John Severeide; Secretary, Janet Lohrer; Treasurer, Audrey Smith.

Stan Strike agreed to remain as historian for the club.

The club voted to send Doc Ellis a \$50 check and thank-you note from the 59ers for his time and efforts in making presentations and leading field trips. Doc also was made an honorary club member.

The club voted to send a "happy retirement card" to Wayne Sutherland. Wayne was a speaker at our state show, has donated books and other items to the club, and was honored as the WSMGS "Rock Star" this year.

The club will give Joy and Roger Lyons one-year club memberships for all that they do and have done for the Club.

Nella will turn over to Stan the minutes from the past year. He will have them stored in the Archives at the Park County Library.

Iris and Bill Rowan won the door prizes.

(Club News continued on Page 11)

Club News (Continued from Page 10)

Shoshone Rock Club (Powell)

November 2019

The Shoshone Rock Club's November 2019 program, "Historical Geology of the Big Horn Basin," was presented by Elise Lynn.

After several months of information gathering and deliberation, the club purchased a new Ameritool lapidary grinder/polishing machine and a trim saw in November for club members to use in their homes. Both machines are light and portable. The club board will draft rules for borrowing and using the machines, which will include training needed before a member can borrow the machines, and the length of time a person can keep them.

Gary Olson provided information about the machines and their prices. Prior to the club's decision to make the purchase, Gary demonstrated grinding and polishing a cabochon using an Ameritool lapidary unit. He will provide the required training for anyone interested in using the lapidary machines.

In other November business:

- **2020 board officers** were elected, as follows: President, Dorine Strom; Vice President, Mary Vogel; Treasurer, Linda Thomas; Secretary, Cresta Peterson. Dorine Strom also volunteered to take on the additional role of field trip coordinator for the club. Ilene Olson agreed to be the club's contributor for the Jade State News.

- The board voted to keep club dues the same for 2020 as they were in 2019. A single member pays \$10 annually. A couple or family pays \$15 per year.

December 2019

The Shoshone Rock Club gathered for its annual Christmas pot-luck dinner in December. Linna Beebe, who has served the club for many years and in several capacities, was awarded a lifetime membership in the club.

Stan Strike gave a slide presentation, "Basic Area Geological Principles Represented in the Big



Linna Beebe
Lifetime Member



Geologist Mark Fisher points out details on a map about geology in the Big Horn Basin during the Shoshone Rock Club's January meeting. JSN photo by Ilene Olson

Horn Basin."

Club Treasurer Linda Thomas brought in the book she wrote, "Crystals and Dragons, A Journey of Discovery." The book is very interesting, and it includes many photos of various crystals and stones.

January 2020

Geologist Mark Fisher, one of the developers of GeoWyo.com, gave a presentation on the geology of the Bighorn Basin, including the most recent theories about how Heart Mountain was formed between Cody and Powell.

Heart Mountain is essentially upside-down; the top two-thirds of the mountain is older than the bottom section.

The current theory is that the top part of the mountain came from the Beartooth Mountains near Cooke City, Montana. A huge portion of the Beartooths broke off and slid across the basin on a layer of gases during a prehistoric cataclysmic geologic event. That slide filled the entire basin with rock, soil and debris, he said. Much of the slide eroded away over the eons, leaving Heart Mountain, McCullough Peaks and several other mountains and formations that are located as far south as Thermopolis, geologists believe.

While geologists are still debating how long it took for the slide to take place, the most prominent theory is that it took just a few minutes.

"This was not a nice place to be at that time," Mark

WSMGS Electronic Board Meeting — January 2020

I. Electronic Meeting Instructions to Board Members:

As a WSMGS Board Member, I would ask you to read this Electronic Meeting email and VOTE on all Action Items by selecting “Reply All” after typing your name and indicating a “Agree or Disagree” vote for each numbered Action Item. The Deadline for your responses by “Reply All” email will be Monday, January 27th. If you have questions about any item call or text me at 307-260-6442 or pres@wsmsg.org Board members are encouraged to submit old or new business items that have not been included in this meeting and a special attachment will be sent out for the entire WSMGS Board’s consideration.

II. President’s Report by Jim Gray:

A. Rockhound of the Year nominations are due April 1, 2020. Forms for the Club nominations and the State nomination will be emailed out to all of the Clubs in January. Return the forms to the WSMGS President via email: pres@wsmsg.org or by U.S. Mail-Jim Gray PO Box 1351, Big Piney, WY 83113.

B. Sublette County Rock Hounds will be hosting the Wyoming State Mineral and Gem Society Show and the Rocky Mountain Federation of Mineralogical Society Convention. June 19, 20, 21, 2020. I would like to see all the WSMGS member clubs have a display case. The theme is Rock and Roll with Wyoming Rocks.

C. I will attach a motel list with campgrounds in the area. I strongly suggest that reservations are made now for the best selection. Pinedale is only 30 minutes travel time with motels as well.

D. If any other clubs’ members would like to help, please let me know.

E. We will be having three field trips, one to the blue forest, one to Kemmerer for fish fossils, fee dig, and one local.

F. “Multi-Federation Field Trip June 13-16, 2020 by Doug True, AFMS Inter- Regional Field Trip Chair Blue Forest for petrified wood, dig Fish Fossils (fee) and we’re working on several other trips in the area, all in conjunction with the Rocky Mountain Federation Show and convention being held in Big Piney, Wyoming. June 19, 20, and 21, so make it a vacation and visit Wyoming. For information about this trip, contact Doug True.

fossils12@yahoo.com. For show and other trip information contact Jim Gray. jimgray@wyoming.com, or rogerm@wyoming.com for field trip information. We are looking forward to this great show.

G. A reminder to the Board and to all of the Clubs to get the information together for any members who have died since last June so a memorial can be done by RM-FMS at the annual convention delegates meeting in June.

III. Vice President’s Report by Linda Richendifer:

a. WSMGS affiliated rock clubs need to submit their Annual Election of Officers Report as soon as club officers are determined for the new year.

b. The WSMGS Vice President will update the Annual WSMGS Club Directory and it will be sent to the email contacts in each club. This WSMGS Club Directory is for WSMGS affiliated club use only and IS NOT FOR PUBLIC DISSEMINATION. The WSMGS makes every effort to protect the personal information of its members via the use of Alias Email Addresses for each WSMGS affiliated Club and the WSMGS officers.

c. See the membership report on [Page 14](#).

IV. Secretary’s Report By Leane Gray:

A. Prior Electronic WSMGS Board Meeting Minutes are as printed in the Jade State News, which are available online: wsmsg.org under the heading Newsletters.

B. WSMGS By-Laws have been updated to include the approved amendment to Article VII, Section 2, Duties of the Host Club.

C. The By-Laws were updated using Microsoft WORD software and formatting was improved as well to make reading and future updates easier; no wording was altered during this action. This version can be converted to PDF or copied onto Notepad as needed.

D. Attention may be needed as to the WSMGS Articles of Incorporation with the State of Wyoming:

Registered Agent is listed as Jane Neale; is this still correct? Have the Officers’ Names and Addresses been updated?

(Continued on Page 13)

WSMGS Board Meeting — January 2020 (Continued from Page 12)

a. **Response by Stan Strike**, including a copy of the 2019 Annual Report filed with the Wyoming Secretary of State, shows that the current Registered Agent is Stan Strike, reflecting a change from the originally filed Articles of Incorporation.

V. Treasurer's Report by Stan Strike:

A. WSMGS Club Report Reminders

a) **December 15th to January 15th — WSMGS Club Annual Report** and or Club Minutes to current

Historian: Roger McMannis, PO Box 1081, Big Piney, WY 83113 or hist@wsmsg.org

b) **January 1st to May 15th — Form 990N** must be electronically submitted to the IRS (The Registered agent for each club should receive this form from the IRS in advance of the deadline).

Clubs may contact the IRS directly by email: la2.alt.www4.irs.gov/pub/rup_login_1

B. Deadline for Annual Report to WY Secretary of State varies by WSMGS Club — Deadline for renewal of "Non Profit Corporation Annual Report" varies by club and is due the 1st day of the month in which the club was first recognized by the Wyoming Secretary of State as a Non Profit Corporation.

The Registered Agent for your club should receive this form in advance of the club's deadline WSMGS Clubs' Incorporation Dates:

Cheyenne Mineral & Gem Society—12/2/1969

Cody 59ers Rock Club — 2/1/2012

Natrona County Rock Hounds — 4/14/1954

Rex Young Rock Club — Not Incorporated

Northeast Wyoming — 11/8/2018

Riverton Mineral & Gem Society — 8/17/2012

Shoshone Rock Club — 2/8/1962

Sublette County Rock Hounds — 3/21/2018

WSMGS Board Incorporated — 11/23/1964

C. See the current Treasurer's Report on [Page 14](#).

VI. Historian Report by Roger McMannis:

A. Reminder all WSMGS clubs need to send activities and meeting minutes or annual reports please.

VI. Jade State Newsletter by Ilene Olson:

A. Clubs are encouraged to submit news items, abbreviated minutes, and photos for publication in the Jade State News.

a. Submission dates to Jade News Editor [jsn@wsmsg.org] are the 1st of February, May, August, and November.

B. The WSMGS would like to encourage clubs to nominate non-club members individuals/couples from your region who have been active in promoting Earth Sciences to be recognized in the Jade State News as **Wyoming Rock Stars!**

Check out former winner write-ups on the WSMGS website: wsmsg.org-Menu-WSMGS Topic Library-WSMGS Awards.

VII. WSMGS Website by Marlene Sibley:

A. The WSMGS needs Action Photos from each of your clubs. Please include the photographer's name for proper photo credit and a short caption summary as to activity. Send photos to: webmaster@wsmsg.org

VIII. Old Business:

A. No old business to consider at this meeting.

B. The WSMGS Historian has only received one report to date. In review, the WSMGS Board asks that each affiliated club send a summary of their yearly club activities to the WSMGS Historian. This can be a simple summary or copies of your club's minutes. The purpose of this report is to provide safe storage and a continuous record of your club's history.

C. Please email them ASAP with Attention to Roger McMannis: hist@wsmsg.org OR mail to him P.O. Box 1081- Big Piney, WY 83113.

IX. New Business:

A. The Board and Clubs are asked to think about what Museum the WSMGS would like to donate to this come year.

B. The annual WSMGS meeting will be June 18, 2020, at Big Piney, Sublette County Fairgrounds, at 6:30 pm. The information packet for the annual meeting and show will be sent out soon by Jim Gray to the Clubs so Delegate/Alternate forms and RMFMS Convention Proxy forms can be completed and returned before the Show and Convention in June.

C. Natrona County Rock Hounds is interested in doing the WSMGS show 2021 in Casper. NE Wyoming Rock Hounds has shown interest for 2022.

WSMGS Board Meeting — January 2020 (Continued from Page 13)

2019-2020 Membership Report

Club Name	Adults	Juniors	Pebble Pups	Life/Honorary	Total
Cheyenne Mineral & Gem Society	89	0	0	14	103
Cody 59ers Rock Club	104	4	14	4	126
Natrona Co. Rockhounds	23	0	1	5	29
NE WY Rockhounds	47	7	5	0	59
Rex Young Rock Club	22	0	0	0	22
Riverton Mineral & Gem Society	137	7	4	14	162
Shoshone Rock Club	34	0	0	6	40
Sublette County Rock Hounds Club	151	14	29	5	199
Totals	607	32	53	48	740

Treasurer's Report — January 2020

WSMGS — Cody Bank of the West				
Item	Date	Deposit from/Check written to	Amount	Balance
Deposit	10/7/19	Donation New WSMGS State Trailer	\$500.00	\$500.00
Deposit	10/7/19	Donation New WSMGS State Trailer	\$500.00	\$1,000.00
Deposit	10/7/19	Payment for Old WSMGS Trailer	\$1,000.00	\$2,000.00
Deposit	10/7/19	Transfer From Valley Credit Union	\$1,283.89	\$3,283.89
Deposit	10/23/19	Refund — WY Sales Tax Paid New Trailer	\$80.00	\$3,363.89
Deposit	10/23/19	Closed Valley Credit Union Account	\$275.01	\$3,638.90
Check 101	10/23/19	Voided — Park Co. Treas. — Old Trailer Sold	\$0.00	\$3,638.90
Check 102	10/23/19	Cody 59ers Rock Club — 80% of \$275	(\$200.00)	\$3,438.90
Bank	10/16/19	Direct Charge By Bank — Printed Checks	\$30.00	\$3,408.90
Check 126	11/7/19	8th Street Ivy Inn — Malene's Thank You	(\$50.00)	\$3,358.90
Deposit	11/22/19	Cody 59ers 2020 dues	\$162.00	\$3,520.90
Check 103	12/9/19	RMFMS — 2020 Dues/Insurance	(\$12.90)	\$3,508.00
Deposit	12/9/19	Sublette Co. Rockhounds — 2020 dues	\$246.00	\$3,754.00
Check 104	12/11/19	Ilene Olson — Nov. 2019 JSN	(\$75.00)	3,679.00
Deposit	12/16/19	Closed Account Transfer Refund	\$583.86	\$4,262.86
Deposit	12/16/19	Shoshone Rock Club 2020 Dues	\$51.00	\$4,313.86
Deposit	1/3/20	Cheyenne 2020 Dues	\$115.50	\$4,429.36
Deposit	1/3/20	Riverton JSN Donation	\$100.00	\$4,529.36
Deposit	1/9/20	Rex Young — Torrington 2020 Dues	\$33.00	\$4,562.36
Deposit	1/9/20	NE WY RockHounds 2020 Dues	\$81.00	\$4,643.36
Deposit	1/10/20	Riverton M&G Soc. 2020 Dues	\$216.00	\$4,859.36
Ending Balance				\$4,859.36

Rocky Mountain Federation of Mineralogical Societies convention
&
Wyoming State Mineral & Gem Society show

Gem & Mineral Show 2020

Theme

***ROCK & ROLL WITH
WYOMING ROCKS***

Hosted by the Sublette County Rock Hounds

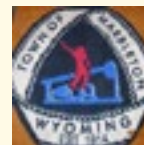
June 19th, 20th, & 21st

at the Sublette County Fairgrounds
10937 Hwy 189, Big Piney, Wyoming

Friday & Saturday 9-5, Sunday 9-4

*Dealers, lectures, demonstrators, exhibits, field trips, Mr. Bones, Fossil
Butte National Monument walking fish fossil, fluorescent mineral
display, kids' activities, food concession & more!*

Admission: \$2.00 adults, kids free



and a funding contribution made by Pinedale Travel & Tourism Commission www.VisitPinedale.org

Contact: jimgray@wyoming.com

LODGING IN & AROUND BIG PINEY-MARBLETON, WYOMING

BIG PINEY - MARBLETON			
Marbleton Inn	307-276-5231	405 Winkleman Avenue	Hotel
Big Piney Motel	480-217-0677	216 S. Front Street	Motel
Country Chalet	307-276-3391	9 Hwy 189	Motel
Triple Peak Bed & Breakfast	307-276-3408	116 Profit Road	Bed & Breakfast
Rob's Roost	307-276-3611	23 E. 3rd Street	RV Park
Sublette County Fairgrounds Leane Gray	307-260-6443	10937 Hwy 189	RV Park
LABARGE			
Wyoming Inn	307-386-2654	129 W. Birch Creek Road	Motel
Red Cliff Motel	307-386-9269	129 E. 4th Avenue	Motel
DANIEL			
Daniel Junction	307-859-8274	11072 Hwy 189 & 191	RV Park & Cabins
Timberline Lodge	307-859-8339	807 Merna North Beaver Road	Lodge
Wyoming Mountain Cabin	307-223-2970	201 Merna North Beaver Road	Cabins
BOULDER			
Big Sandy Lodge	307-749-1401	Big Sandy Trailhead	Lodge & Cabins
Boulder Inn Motel	307-537-5480	8782 Hwy 191	Motel
Boulder Lake Lodge	307-537-5400	#48 Bridger Drive	Lodge & Cabins
Highline Trail RV Park	307-537-3080	8718 Hwy 191	RV Park
Wind River View RV Park & Campground	307-537-5453	8889 Hwy 191	RV Park
FARSON			
Sitzman's Motel	307-273-9246	4072 Hwy 191	Motel
KEMMERER / DIAMONDVILLE			
Antler Motel	307-877-4461	419 Coral Street	Motel
Best Western Fossil Country Inn & Suites	307-877-3388	760 Hwy 189 - 30	Hotel
Fairview Motel	307-877-3938	61 US Hwy 30	
Super 8	307-877-6901	3 US Hwy 189-30	Motel
PINEDALE			
Baymont Inn & Suites	307-367-1424	1624 W. Pine Street	Hotel
Best Western Pinedale Inn	307-367-6869	864 W. Pine Street	Hotel
Chambers House Bed & Breakfast	800-567-2168	111 W. Magnolia	Bed & Breakfast
Gannett Peak Lodge	307-231-5755	44 N. Sublette Avenue	Motel
Hampton Inn & Suites	307-367-6700	55 Bloomfield Avenue	Hotel
High Country Suites	307-367-5770	1133 W. Pine Street	Hotel
Lakeside Lodge Resort & Marina	307-367-2221	Fremont Lake	Cabins
Lodge at Pinedale	307-367-8800	1054 W. Pine Street	Hotel
Log Cabin Motel	307-367-4579	49 E. Magnolia	Cabins
Pinedale's Cozy Cabins	307-367-3401	66 N. Madison	Motel
Rim Station RV Park	307-859-8229	milepost 129 on Hwy 191	RV Park
Rivera Lodge Bed & Breakfast	307-367-2424	442 W. Marilyn Street	Bed & Breakfast
Sundance Motel	307-367-4789	148 E. Pine Street	Motel
Wagon Wheel Motel	307-367-2871	407 S. Pine Street	Motel

Upcoming mineral and gem shows

May 2-3, 2020

Billings Gem & Mineral Show
Al Bedoo Shrine Auditorium
1125 Broadwater Avenue
Billings, Montana

May 16-17, 2020

Cheyenne Mineral, Gem, Fossil, Rock Show
Archer Complex Building
3967 Archer Pkwy
Cheyenne, Wyoming

June 19-21, 2020

Wyoming State Mineral & Gem Show RMFMS Convention
Sublette County Fairgrounds
10937 Hwy 189
Marbleton, Wyoming

July 11-12, 2020

Casper Gem & Mineral Show
Ramkota Hotel, 800 N. Poplar
Casper, Wyoming

Sept. 10-20, 2020

Denver Gem and Mineral Fall Showcase

For ten days in Denver, 12 separate shows feature more than 900 vendors and exhibitors, each displaying and selling gems, minerals, fossils, jewelry, and lapidary tools and supplies.

For more information, visit

www.xpopress.com/showcase/profile/2/denver-gem-mineral-fall-showcase/

Casper Gem & Mineral Show

NCRC presents the 73rd Annual
GEM & MINERAL SHOW July 11-12, 2020

Sat 9-5 Sun 9-4
Admission \$3
under 12 free
Ramkota
Hotel
800 N Poplar
Casper WY

Actual
Raffle
Item

Raffle: Amethyst Cathedral, hunk of Edwards Black Jade, hunk of Olive Jade and much more
Silent Auctions: WY rocks in the rough
Door Prizes: \$10 rockhound bucks
Demonstrations: Flint Knapping & Primitive Stone Tools

The Casper Gem & Mineral Show is one of several mineral, gem and rock shows in Wyoming and the region this spring, summer and fall. See flyer on [Page 15](#) for the combined Wyoming State Mineral and Gem Society and Rocky Mountain Federation of Mineralogical Societies Convention.

WSMGS Rock Clubs

Riverton Mineral & Gem Society

P.O. Box 1904
Riverton, WY 82501

rivertonmgs@wsmgs.org
www.RivertonMGS.com

Meets 2nd Mon. 7 p.m.
(Jan.-May, Aug.-Nov.)

Senior Center, 303 E. Lincoln, Riverton

President: Linda Richendifer
Vice-President: Stan Grove
Treasurer: Cristy Quinn
Secretary: Holly Skinner
JSN: Kim Brown
Historian: Open
Field Trips: Ted Knowles

Cheyenne Mineral & Gem Society

P.O. Box 21412
Cheyenne, WY 82001

cheyennemgs@wsmgs.org

Meet 2nd Wed. 7 p.m. (August-May)
IBEW Union Building
810 Fremont Street-Cheyenne

President: Open
Vice President: Open
Treasurer: Jan Shively
Field Trip: Mark Shivel

Natrona County Rockhounds

P.O. Box 123,
Casper, WY 82644

natronarockhounds@wsmgs.org

Meets 1st Monday 7 p.m. (April-Dec)
Shop Open 6-8 p.m. Tue & Fri at
Clubhouse, 5211 Rambler, Mills

President: Martin "Mac" Goss
Vice-President: John Hines
Treasurer: Kenny Platte
Secretary: Martin "Mac" Goss

Cody Fifty-Niners Rock Club

P.O. Box 1251
Cody WY 82414

cody59ers@wsmgs.org
www.Cody59ers.com

Meets 4th Thursday (Sept-May) 6:30 p.m.
Park County Courthouse, EOC room,
1002 Sheridan Ave., Cody

President: Greg Jones
Vice-President: John Severeide
Treasurer: Aubrey Smith
Secretary: Janet Lorher
Historian: Stan Strike
Field Trips: Nella Flurkey



Shoshone Rock Club

P.O. Box 256,
Powell, WY 82435

shoshonerockclub@wsmgs.org

Meets 2nd Tuesday 7 p.m.
Powell Library
317 E. Third St., Powell

President: Dorine Strom
Vice-President: Mary Vogel
Treasurer: Linda Thomas
Secretary: Cresta Peterson
JSN: Ilene Olson
Historian: Linna Beebe
Field Trips: Dorine Strom

Rex Young Rock Club

112 East 3rd
Lingle, WY 82223

rexyoungrockclub@wsmgs.org

Meets 2nd Wednesday 7:00 p.m.
Senior Center
216 E. 19th Ave., Torrington

President: Kim Nielsen
Vice-President: Sherman Lenhart
Treasurer: Helen Vogel
Secretary: Joyce Trowbridge
JSN: Joyce Trowbridge
Historian: Joyce Trowbridge
..... Dale Tikalski

Sublette County Rock Hounds Club

P.O. Box 1351
Big Piney, WY 83113

subletterockhounds@wsmgs.org

Meets 1 p.m. 3rd Saturday (March-Dec)
The Bench Grill
415 Winkleman, Marbleton

President: Jim Gray
Vice-President: Mike Schaffer
Treasurer: Leane Gray
Secretary: Deb Jess

Northeast Wyoming Rockhounds

2107C N. Hwy 14-16
Gillette WY 82716

newyrockhounds@wsmgs.org

Meets odd # months
Check email for dates

President: Jeff Hulings
Vice-President: Dennis Brown
Treasurer: Beth Raab
Secretary: Vanessa Grove