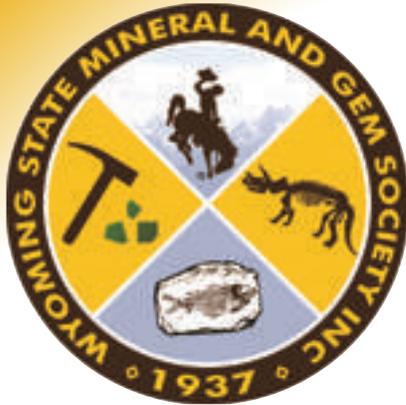


# Jade State News

Wyoming State Mineral & Gem Society, Inc.

Award Winning WSMGS Website: [wsmgs.org](http://wsmgs.org)

Volume 2019, Issue 2



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*The WSMGS conducts meetings quarterly and as special events require*

## Wyoming Agates

### WHAT ARE AGATES

Chalcedony (cryptocrystalline quartz), in its pure form, is transparent when exposed to concentrated light. When a small amount of impurities or foreign materials are added, the color of the cryptocrystalline quartz changes and its ability to transmit light decreases, creating semitransparent to translucent varieties of chalcedony.

Agates are a form of chalcedony that contain patterns caused by impurities within this cryptocrystalline quartz. The most common agate patterns caused by impurities are in the form of bands, concentric lines (dendritic), mottled, moss shaped or plume-like. In addition, these patterns are often different in color than the chalcedony that contains it. The book *Agates* by Karen A. Brzys lists that over 16 different agate patterns can be found in Wyoming.

### HOW DO AGATES FORM

Agates usually form in areas where surface water seeps through igneous rocks or volcanic ash.

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As water flows through the cavities and crevices of the igneous rock or volcanic ash, it dissolves the silica from these parent materials. If the dissolved silica in the water has a particularly high concentration, a silica gel can form within openings of the rocks below. Eventually, that gel can crystallize into microcrystalline quartz.

As more time goes by, additional layers of the gel form creating “younger” bands of microcrystalline quartz on the surfaces of the fractures and cavities. During this time, it is very easy for impurities to get mixed into the silica mixture. This is how the agates get their coloring, banding and other patterns. Agates can also form less frequently, inside openings between and within sedimentary rock layers.

Both igneous and sedimentary rocks, if exposed to weathering and erosion over a long period of time, results in the agates (being harder) becoming separated from their original depositional material. This is the reason why agates are often found in streams or downhill from the original layers of igneous or sedimentary rocks in which they formed.

### WHAT ARE JASPERS

Jasper is an opaque variety of chalcedony. Opaque means if you hold it up to a light source neither light nor images will come through it. The high amount of impurities in the jasper is what makes them opaque. Agates tend to be translucent because they contain less impurities and foreign materials than jasper, though both are forms of chalcedony.

### HOW DO JASPERS FORM

Jaspers generally form in areas where there is fine, soft sediment or volcanic ash. Over time, the silica rich mixture begins to combine and “cement” the sediment into a solid mass. The varying sediment and ash and the chemical weathering of the impurities within the jasper plays an important role in the beautiful colors of some jasper deposits. With this sedimentary process, the resulting

patterns for jasper are limited- the most common being banded or striated.

### WHAT IS A JASP-AGATE?

By definition a jasp-agate is a “jasper agate”. Under a strong light, an agate is translucent and a jasper is opaque to light- since both are chalcedony, the amount of impurities must cause the difference. Therefore a Jasp-Agate is a combination of an agate and jasper. A jasp-agate can be recognized by a pattern separation of translucent and opaque chalcedony. [A jaspilite is defined as a rock of alternating bands of red jasper and iron oxides=banded iron. For simplification in the following listing of the major agate types and locations in Wyoming, jaspilites were listed as Jasp-Agates.]

### WHAT ARE PSEUDOMORPH AGATES?

Pseudomorph Agate is created by a process in which quartz that is dissolved in groundwater fills in and duplicates the original cell structure of a pre-existing organic material (such as wood or bone). By definition, “pseudo” means false and “morph” means body so pseudomorphs are false bodies.

Not being true agates, Pseudomorph Agates will not be in the following listing of the major agate types and locations in Wyoming.

## MAJOR WYOMING AGATES

The following is an alphabetized list of the major agate areas and their approximate locations in Wyoming. Because weathering, erosion, and deposition are constant in Wyoming, these areas will expose new finds year after year. However it is the Rock Hound’s responsibility to study these locations and their current land ownership before going to the field in search of Wyoming agates. ANGEL AGATE / MOONSTONES: Angel Agates and moonstones are found in the Granite

## Wyoming Agates continued from page 2

Mountains. [SWNW section 36, T29N, R89W]-north of Muddy Gap. Angel agate is a pale greenish gray color with a chalky white surface coating. Moonstones are clear chalcedony shaped balls coated with opal and white ash and are typically 1-3 inches in diameter. Both fluoresce a greenish-yellow with UV. These agates are located in a 6 inch zone in the upper sandstone sequence of the split Rock formation.

**BLACK BUTTES JASP-AGATE:** This jasp-agate is described as reddish brown to dark gray with this veins of white quartz [NE section 26, T50N, R62W] Also at this location mineral ores can be found as a within a breccia resulting from mineralization occurring with silification within the Pahasapa Limestone.

The mineral ores are contained in a breccia of limestone cemented by massive galena which may also contain: hemimorphite (white prismatic crystals filling vugs of reddish brown jasper), wulfenite (resinous, transparent yellow to yellow orange crystals), with minor occurrences of sphalerite (dark, resinous brown) and fluorite (deep purple).

**BRIDGER AGATE:** Bridger Agate is a dark gray to brown agate associated with the Bridger Formation south of Crooks Mountain [T26N, Rs96 - 97W & NW part of T27N, R97W].

**CEDAR MOUNTAIN AGATE/JASP-AGATE:** Along the eastern flank of Cedar Mountain several varieties of chalcedony can be found [Sections 2 & 19, T14N, R110W//Sections 22, 24, 25, T14N, R111W// Section 23, T15n, R111W]. The agates are multicolored to black with moss, flame, and plume patterns. The jasp-agate is red and yellow with white and blue streaks. Zebra flint is also found in this area and is white, brown, and black striped flint. All of this material originates from the Bishop Conglomerate which caps Cedar Mountain on the west and south.

### DRYHEAD AGATE:

The Dryhead Agate, a colorful red and white banded fortification agate, weathers out of the Phosphoria Formation the northern Bighorn Basin [T58N, Rs94, 95W]. Some bands of this agate will fluoresce green under short wave UV light.



### FAIRBURN AGATE:

In the Black Hills of northeastern Wyoming agates and Jasp-Agates can be found in the glacial outwash and stream gravels. The Fairburn Agate is rarely found and is identified by its brilliant colors and “holly leaf” shaped fortification lines. The Teepee Canyon agate found in Custer County, South Dakota can also be very colorful and have holly leaf fortification lines but have a limestone covering whereas Fairburn Agates’ have a waxier micro-crystalline quartz based covering.



### LYSITE AGATE:

Today Lysite Agate is found in isolated pockets of the Lysite Member of the White River Formation or as isolated pieces (“float”=separated by gravity) that have been exposed by the continual weathering and erosion of Lysite Mountain. [T40N, R90W) Lysite Agate collected from the Lysite Mountain area is usually coated with a calcite layer, which requires most finds to undergo some lapidary treatment in order to create a “gemstone specimen”. Because the chemical conditions that created this agate changed, Lysite Agate exists in many different forms. Lysite Agate most often appears as



## Wyoming Agates

a banded silica base agate with fortification lines created by colors ranging from reds to browns and white or clear (rare-blue) interlayered with calcite-based material. Lysite Agate also can occur with larger crystals of quartz and calcite deposited in voids, or with cavities covered with small crystals = Drusy Appearance, or with a surface covered with small rounded/grape-like bumps = Botryoidal Appearance.

**MEDICINE BOW PLUME AGATE:** Medicine Bow Plume features dark plume inclusions set in milky white



translucent chalcedony. The source area is located: 13 miles east of Medicine Bow (or 44 miles west of Laramie on U.S. 287/30) turn north on Marshall Road/Albany County Road 610 (improved dirt road for 36.5 miles and then turn west for 1.6 miles then park to find small banded moss agate (+4 miles banding disappears within pieces found. Larger pieces may be found on ridges to south?)

**PRAIRIE AGATE:** Prairie Agates are commonly found in the Black Hills of northeastern Wyoming in association with the rarely found and



more valuable Fairburn Agates. Prairie Agates have more concentric banding (not holly leaf shaped) and are not as colorful as the Fairburn agate. Jasp-Agates are also commonly found in this area but lack fortification lines and are identified as a marbled mixture of chalcedony and different colored jaspers.

**QUAKING ASP JASP-AGATE:** South of Rock Springs, on Quaking Asp Mountain [NW Section

22, T17N, R104W] is a dark to light gray agate with cross-cutting veins of quartz, and banded red, yellow-orange, and gray jasp-agate.

**SEMINOE MOUNTAIN JASP-AGATE:** This jasp-agate is found in the stream gravels that are washed down from the Seminoe Mountains near the Miracle Mile of the North Platte River. It contains a mixture of jasperized iron that is magnetic and appears as alternating layers of black magnetite, dark gray quartz, and brown layers of jasper and grunerite.

**SHIRLEY BASIN JASP-AGATE:** In the northern Shirley Basin a jasp-agate can be found that consists of pink breccia matrix cemented together with reddish-brown jasper and dark gray to black chert.

**SLATER AGATE:** Found near Guernsey, the Slater Agate's weathered surface may look like a fossilized sponge. This agate is found as concretionary masses with a white outer coating. If these concretions are cut open, they reveal the inside as a dark gray to black agate surrounding a milky colored interior that contains small darker dendrites. Slater Agate fluoresces bright green under UV light. The Guernsey Limestone formation as part of the Hartville uplift is the source of this agate. [Section 25, T27N, R66W]

**SPANISH POINT AGATE:** The Spanish Point Agate is a pale blue to multicolored chert agate with white surface occlusions. Found in the Big Horn Mountains, [T52N, R88W-Sections 20,21,28,29,32,33], this agate has superior chipping characteristics and was highly used by native Americans as associated with many archeological sites. Spanish Point originated from a soft clay, possibly a weathered volcanic ash of the White River Formation.

**SWEETWATER AGATE:** Near the Granite

## Wyoming Agates continued from page 4

Mountains in central Wyoming, Sweetwater Moss Agates can be found associated with the Split Rock Formation and occur



in gravel deposits and in localized stream beds and are commonly found as 1-4 inch nodules. These agates often are covered with a weathered brown coating but when tumbled reveals a highly polished, light gray to blue agate with black manganese moss shaped dendrites. This agate often times will fluoresce a brilliant yellow with an ultra-violet light.

**TIN CUP JASP-AGATE:** This jasp-agate occurs in the western Granite Mountains [Sections 24-27, T31N, R93W] and appears as a jasperized breccia with angular fragments of blood red, chocolate brown, and yellow brown jasper.

**TRAPPER CANYON AGATE:** The Trapper Creek Agate is a brown to cream colored dendritic agate and was quarried on the west side of the Big Horn Mountains at lower elevations on the Trapper-Galloway Ranch near Shell [T52N, R89W-NWSW Section 24] Trapper Creek Agate is thought to have originated from the Madison Limestone Formation and being a dendritic agate does not chip well to make stone tools.

**TWIN CREEK AGATE:** Twin Creek Agate is an irregularly banded, red and golden-yellow flame jasper. It is associated with the Ansdén or Phosphoria formations in the Twin Creek area north of South Pass [SW Section 14, T30N, R99W].

**WHITE RIDGE AGATE:** White Ridge Agates are rounded, varying in size from 0.25"-0.50" in diameter and are translucent brown to gray with some having moss-like inclusions. These agates are found in the lower part of the Moonstone Formation [Section 14, T30N, R90W extending eastward into the next two townships].

**YELLOW TREE AGATE:** This jasper agate var-

ies from yellow to light brown or light orange in color and has black tree like dendritic patterns. It can be found west of Highway 28 at the base of Limestone Mountain [Sections 7-9, T30N, R99W].

**YOUNGITE AGATE:** Near Guernsey, Youngite agate consists of a limestone



breccia that is cemented together with a light gray to grayish blue, banded, drusy quartz and chalcedony. Under long wave fluorescent light, the drusy quartz appears as a blue color. Youngite is found in the Guernsey Limestone Formation with the required silica for the formation of this agate was leached from the overlying white River Formation. This agate was originally named after Dr. Young of Torrington who discovered an extensive cave system along the North Platte River, which was lined with this agate. [ N/2 Section 36, T28N, R67W]. Unfortunately this cave is now under water as a reservoir was developed on the North Platte, which flooded it. Some isolated float material can still be found in this region.

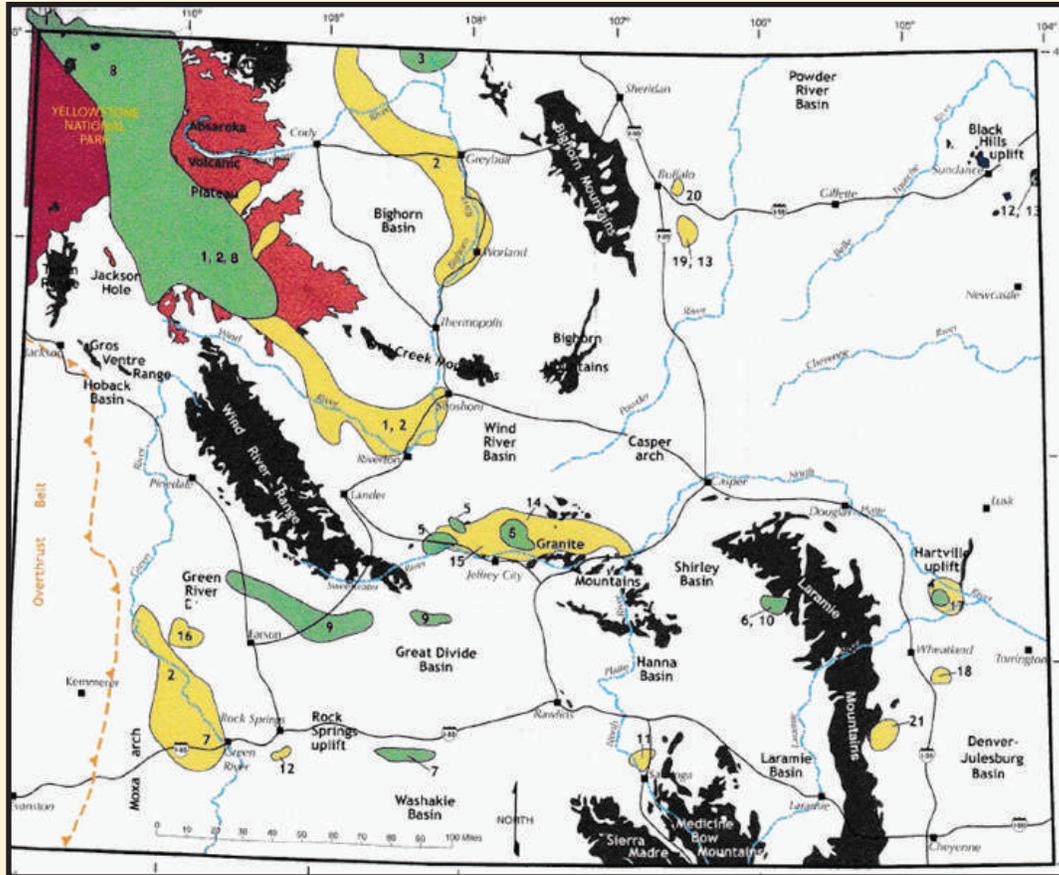
### REFERENCE INFORMATION UTILIZED BY STAN STRIKE:

1. Gemstones & Other Unique Minerals & Rocks Of Wyoming: WY Geological Survey-Bulletin 71-2000
2. Minerals And Rocks Of Wyoming: WY State Geological Survey-Bulletin 72-2005
3. Agate, Jasper, Quartz, Chalcedony in Wyoming: <http://wyquartz.blogspot.com/2011/04/agate-jasper-quartz-chalcedony-more.html>-Blog April 2011
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5. Rockhounding Wyoming by Kenneth Lee Graham-1996
6. Agates Inside Out by Karen A. Brzys-2010
7. <https://www.crystalsandgemstones.com/2014/09/06/what-are-the-differences-between-agate-a>
8. [https://www.healingcrystals.com/Difference\\_between\\_Quartz\\_Jasper\\_Agate\\_and\\_Chalcedony\\_Articles\\_189.html](https://www.healingcrystals.com/Difference_between_Quartz_Jasper_Agate_and_Chalcedony_Articles_189.html)



## Wyoming Agates continued from page 5

Most rockhounds appreciate and value the colored patterns of agates. It is hard to collect only a few agates because -no two agates are created exactly alike! Wyoming has an abundance of agates that can be found in all parts of the state and represent almost all of the major agate types.



MAJOR WYOMING AGATE LOCATIONS [REFERENCE: WY GEOL.SURVEY-BULLETIN 72]

Legend:

- Yellow-Alluvial Materials
- Green- Original Source Materials
- Dark Red-Yellowstone Quat. Volcanics
- Red-Absaroka Eocene Volcanics
- Black-Precambrian Igneous/Metamorphic

- Agates:
- 3. Dryhead Agate
  - 4. Guernsey Agate
  - 5. Sweetwater Agate
  - 6. Medicine Bow/Marshall Agate
  - 13. Amethyst Mineral
  - 14. White Ridge Agate
  - 17. Youngite Agate
  - 18. Slater Agate

- Pseudomorph Agates:
- \*1. Iris / Rainbow Agate
  - \*2. Wood-cast Agate
  - \*7. Gonibasis Agate
  - \*8. Wiggins Petrified Wood
  - \*9. Eden Valley Pet. Wood
  - \*10. Shirley Basin Pet. Wood
  - \*11. Saratoga Valley Pet. Wood
  - \*16. Blue Forest Pet. Wood
  - \*19. Crazy Woman Pet. Wood
  - \*20. McNeese Draw Pet. Wood

- Jasp-Agates:
- \*\*12. Jaspillite
  - \*\*15. Tin Cup Jasper
  - \*\*21. Iron Mountain Jasper



## WSMGS Electronic Board Meeting April 2019

### WSMGS ELECTRONIC BOARD MEETING- APRIL 2019

#### **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 due Wednesday, April 24, 2019. If you have questions about any item call or text me at 307-260-6442 or [pres@wsmsg.org](mailto: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. I would like to remain president for another term.

B. We have two new rock clubs in Wyoming: Gillette, Northeast Wyoming Rock Hounds and Kemmerer, Fossil Basin Mineralogical Society. Both Clubs have joined the WSMGS and the RMFMS.

C. The Fossil Basin Mineralogical Society is hosting a gem and mineral show July 26- 28, 2019, during the annual Oyster Ridge music festival in Kemmerer, Wyoming. A flyer for this Show is attached. (UPDATE, this show has been cancelled and it may be rescheduled for later in the year).

D. The annual WSMGS gem and mineral show is regulated by the WSMGS by-laws. These by-laws include:

Section 2. Duties of Host Club: WSMGS member clubs hosting the WSMGS State Show will sign a WSMGS State Show Agreement Form and are expected to utilize the guidelines and practices of WSMGS to provide a quality experience for the public, dealers, and club members. The WSMGS Club hosting the WSMGS State Show is responsible for the following but not limited to the following duties:

- (a) contracting a suitable location with set-up locations for all dealers/demonstrators
- (b) securing liability insurance and providing security covering the set up through final show dates
- (c) sending and receiving dealer/demonstrator contracts
- (d) providing all WSMGS member clubs with State Show information and forms for entering club & individual display cases with judging criteria
- (e) statewide and local promotion of the show.

Section 3. Profits. WSMGS member clubs hosting the WSMGS State Show will provide a financial statement of the income, expenses, and resulting profit associated with sponsoring the WSMGS State Show. A check equaling 20% of the Total Profit should be written to WSMGS and included with the show’s financial statement and sent to the WSMGS Treasurer. (Income, expenses, and profit associated with food sales or items sold via a club table should not be included in the financial statement required by the WSMGS.) Financial losses or liabilities incurred during or as a result of sponsoring the WSMGS State Show will be the sole responsibility of the WSMGS member club hosting that State Show.

Section 4. Dealers. No less than five (5) and no more than (12) commercial dealers are to be contracted for any WSMGS State Show unless approved by the WSMGS Board of Directors.

Section 5. Competitive Displays: The WSMGS member host club for the WSMGS State Show will adhere to the following guidelines concerning individual and club competitive displays: A. The registration forms, competitive display rules and forms shall be sent to the WSMGS member club members at least

## WSMGS Electronic Board Meeting April 2019 continued from page 7

90 days in advance of the WSMGS State Show.

B. All cases shall be assigned an identifying number.

C. No name or other personal identifying marks shall be visible during judging.

D. Judging shall be done by at least 2 qualified persons who are not members of any WSMGS member clubs.

E. Each WSMGS member club may enter one display case to be judged by the public for the People’s Choice Award. These cases should be grouped together and labeled such as that the public can easily view and vote for one of the Club Display Cases. Votes will be counted by the WSMGS Board of Directors who are present. The People’s Choice Award is a “traveling trophy” and is the temporary property and responsibility of the winning club. The winning club is responsible for having the plaque on the trophy properly engraved, keeping the award trophy secure, and returning it to the next WSMGS State Show. When a club wins the People’s Choice Award three consecutive years, said club may permanently retain the trophy and is responsible for replacement of the next People’s Choice Award traveling trophy.

Section 6. Jade. Wyoming State Gemstone. The official Wyoming gemstone, Jade, shall be prominently displayed in as many colors and types as possible, at all WSMGS State Shows. The host club is responsible for the security of the WSMGS Jade case during the set up and duration of the State Show.

Section 7. Wyoming State Heritage Showcase. The WSMGS Wyoming State Heritage Showcase will be displayed at each WSMGS State Show. The host club is responsible for the security of the WSMGS Wyoming State Heritage showcase during the set up and duration of the State Show.

E. WSMGS has historically given a gift of appreciation to the webmaster Marlene Sibley a \$50 gift certificate twice a year. We need to vote on this.

### III. Vice President’s Report by Linda Richendifer:

A. She would like to remain vice president for another term.

### IV. Secretary Report by Leane Gray:

A. Copy of prior electronic Board meeting is attached.

B. From the WSMGS By-Laws: Coordinate the consideration of charitable contributions by WSMGS to be approved by the Board of Directors. Please be thinking about a Wyoming museum worthy of the annual contribution of \$100 toward the furtherance of geology, rocks, minerals, fossils, and rock hunting in our State. The Board will consider and vote upon these nominations at the annual Board meeting in June at Cody.

C. She would like to remain secretary for another term.

### V. Treasurer Report by Stan Strike:

EXPENSES	EXPENSES
Check #   Written   Bank Date                      Check Written To:   CheckAmount	
1134 5/16/18    5/23/18   WY STATE 4-H FOUND.-STATE FAIR GEOLOGY WINNER	\$50.00
1135 5/24/18    6/4/18    JENNIFER FLOWERS-MAY JADE STATE NEWS	\$75.00
Debit 5/23/18    5/23/18   CODY WALMART-ROY CERTIFICATES & FRAMES	\$30.29
1136 5/23/18    6/4/18    WDGMS-RMFMS CONVENTION FEES:RMFMS WY State Director	\$43.00
1137 5/29/18    5/31/18   ART,SAND,& STEEL-2018 STATE ROY WINNERstone ENGRAVING	\$52.50
1138 5/29/18    6/11/18   BLUE & GOLD AWARDS-ENGRAVING 2018 wiiner on ROY AWARD	\$8.40

## WSMGS Electronic Board Meeting April 2019 continued from page 8

1139	6/14/18	6/21/18	JENNIFER FLOWERS-WSMGS ANNUAL MEETING TRAVEL	\$150.00
1140	6/14/18	6/18/18	ROD BALTES-WSMGS ANNUAL MEETING TRAVEL	\$150.00
1141	6/14/18	VOIDED	JIM GRAY cashed Stan Strike's check & bank refused 2 PARTY CHECK	**\$150.00**
1142	6/14/18	7/5/18	FOSSIL COUNTRY FRONTIER MUSEUM-ANNUAL museum AWARD	\$100.00
DEBIT	7/19/18	7/20/18	THE NEST HOTEL-2 NIGHTS for RMFMS MEETINGS RAPID CITY	\$283.40
1143	7/21/18	8/1/18	JIM GRAY-PAYMENT FOR VOIDED CHECK # 1141	\$150.00
1144	8/11/18	8/22/18	Stan Strike: total gas cost RMFMS convention Rapid City	\$64.27
DEPOSIT			WSMGS-Sublette County 2018 State Show 20% Proceeds	
DEBIT	8/30/18	8/31/18	iPage-3 year renewal of wsmgs.org domain name	\$50.97
1145	8/24/18	8/27/18	Jennifer Flowers-August 2018 Jade State News	\$75.00
DEBIT	9/24/18	9/26/18	WY Sec. of State-renewal of Incorporation Annual Report	\$27.00
1146	10/29/18	11/1/18	Park County Treasurer-WSMGS Trailer Registration Renewal	\$51.27
1147	11/16/18	11/26/18	RMFMS-WSMGS Board Dues & Insurance	\$12.60
1148	11/19/18	12/6/18	Jennifer Flowers-Nov. 2018 JSN	\$75.00
1149	12/2/18	12/4/18	The Ivy 8th Street-Marlene Sibley's Gift Certificate	\$50.00
1150	2/3/19	2/8/19	Jennifer Flowers-February Jade State News	\$75.00

INCOME	+	+	+ + + + +	INCOME	\$ BALANCE
Check#	Check From:	Date Written	Date Deposited	Check Amount	
1638	Riverton M&G	11/23/18	12/10/18	\$198.00	\$2,226.90
1400	Shoshone RC	11/14/18	12/10/18	\$63.00	\$2,289.90
1639	Riverton-JSN Donation	11/26/18	12/10/18	\$100.00	\$3,185.40
1329	Cheyenne M&G	10/21/18	12/10/18	\$154.50	\$3,339.90
5295	Cody 59ers RC	11/24/18	12/10/18	\$121.50	\$3,461.40
1021	Rex Young Rock club	11/21/18	12/10/18	\$31.50	\$3,492.91
P.O	Fossil Basin Min. Society	12/27/18	1/22/19	\$12.00	\$3,504.91
97	NE WY Rockhounds	1/3/19	1/22/19	\$57.00	\$3,561.91
2511	Natrona Co. Rock Hounds	1/15/19	1/22/19	\$60.00	\$3,621.91
					\$3,546.91
2513	Natrona Co R.H-Trailer		4/3/19	\$500.00	\$4,046.91
BANK BALANCE:					
1/31/19	\$3,621.91	2/28/19	\$3,546.91	3/31/19	\$3,546.91
				4/30/19	\$4,046.91

**VI. Jade State Newsletter by Jennifer Flowers:** No report for this meeting.

**VII. Historian's Report by Rod Baltus:**

A. He is submitting his resignation as historian because he is moving out of Wyoming.

**VIII. WSMGS Website by Marlene Sibley:** No report for this meeting.

**IX. Old Business:** No old business to report.

**X. New Business:**

A. Elections for WSMGS Board Members, 2 year terms

a. Of the current Board members, we need to know who would like to continue serving for two more years:

## WSMGS Electronic Board Meeting April 2019 continued from page 9

President: Jim Gray	YES	Vice President: Linda Richendifer	YES
Secretary: Leane Gray	YES	Treasurer: Stan Strike	YES
Historian:	NO	Jade State News Editor:	NO

b. If anyone would be interested in running for a Board positions to be voted upon at the June 2019 annual meeting in Cody. Please submit all nominations to WSMGS President Jim Gray by April 24, 2019, so a ballot can be generated prior to the June meeting.

c. Jim Gray will send an email to all WSMGS Clubs inviting members to run for office including the information from the WSMGS By-Laws:

- i. Section 1. Officers. The officers of the WSMGS shall be a President, Vice-President, Treasurer, Secretary, Historian, and Newsletter Editor.
- ii. Section 2. Election. The WSMGS officers shall be elected by the authorized voting members at the annual WSMGS membership meeting of an odd numbered year. The Newsletter Editor shall be appointed by the President.
- iii. Section 3. Term of Office. All officers shall hold office for two years or until their successors have been duly elected, or until their removal.

B. Annual Meeting Delegate Forms have been sent to all of the Clubs, by WSMGS President Jim Gray, requesting proxy forms be completed by Clubs who will not have members in attendance at the annual meeting in Cody.

C. Showcases at the annual WSMGS Show in Cody. WSMGS President Jim Gray sent a reminder email to all WSMGS Clubs requesting showcase commitments by individuals and Clubs for the annual state show in Cody. He provided dimensions of the State's cases and included the necessary forms. The WSMGS has 12 cases available for membership to use, on a first-come, first-served basis.

\*\*\* VOTE Action Item #1- WSMGS should award webmaster Marlene Sibley a \$50 gift certificate in April 2019?

MOTION CARRIED

Agree Jim Gray, Linda Richendifer, Leane Gray, Stan Strike, Rod Baltes

Disagree None

\*\*\*VOTE Action Item #2 – would like to remain Board member until June 2021.

Agree Jim Gray, Linda Richendifer, Leane Gray, Stan Strike

Disagree Rod Baltes; resigning due to moving out of Wyoming

SUMMARY OF VOTING: ACTION ITEM 1= 5 agreed, 1 vote not received

ACTION ITEM 2= 4 agreed, 2 resignations

**XII. MEETING ADJOURNED**



## 2019 Rockhound of the Year Nominations

The following individuals have been nominated by their respective clubs as Club Rockhounds of the Year and by individual club members using the State Rockhound of the Year form. All of these nominated individuals are eligible to be selected as the 2019 Wyoming State Rockhound of the Year. These Club Rockhounds and the 2018 Wyoming State Rockhound of the Year will be recognized at the Wyoming State Mineral and Gem Society's Annual Meeting on Thursday, June 20, 2019 (6:30p.m.) in Cody, WY. at the Cody Auditorium-1240 Beck Avenue.

### CLUB ROCKHOUNDS OF THE YEAR:

** Jan and Mark Shively	Cheyenne Mineral & Gem Society
** Nella Flurkey	Cody 59ers Rock Club
** Vanessa and Ryan Grove	Northeast Wyoming Rockhound Club
** Hayden Minchow(Junior)	Northeast Wyoming Rockhound Club
** Tom Marchwick	Sublette County Rock Hounds

### STATE ROCKHOUNDS OF THE YEAR:

** Jeffrey Hulings	Northeast Wyoming Rockhound Club
** Linda Richendifer	Riverton Mineral & Gem Society
** Jim and Leane Gray	Sublette County Rock Hounds



## Acrylic Rock Painting Transforming Leaverites into Works of Art:

Most rockhounds end up with some leaverites in their collection. For those of you who are very artistic, you may choose to paint your leaverites to represent various animals or artistic scenes. ("The Art of Painting Animals On Rocks" by Lin Wellford). For those of us who are less artistic, we can use the "Acrylic Paint Flow Method" to transform our leaverites into beautiful works of art.

Steps to Transform A Leaverite Rock Utilizing the Acrylic Paint Flow Method

#### A. Materials:

1. Acrylic Paint-Get large containers from discount store or craft store. Pick paint colors that you like. You may want to start with 2 light and 2 dark colors, plus white but the choice is yours!
- 2 Leaverite Rock -Choose a rock that has a smooth rounded surface that is clean and dry.
3. Floetrol - this is used as a paint additive that helps smooth out your paint. This can be purchased in the paint department in most stores. Another similar products is Liquitex.
4. Clear Disposable cups



# Acrylic Rock Painting

## Transforming Leaverites into works of Art: continued from page 11

5. plastic spoons or wooden stir sticks
6. Very small cups such as those used to dispense catsup in fast food restaurant
7. Silicon spray-can be found in discount or craft stores (waterproofing products may be cheaper)
8. Spread material to protect surface of work Area (wax paper/news paper/plastic sheeting/plastic plate)

### B. Preparation:

1. Spray your smooth, rounded, dry leaverite with lacquer spray(try different colors) and allow it to dry. This process seals the rock's surface and allows the paint to flow more easily.
2. Follow the following recipe to thin each of your selected acrylic paint colors. The volume of paint that you begin with is dependent on how many leaverites you plan to paint.
  - Begin by mixing 1 part Floetrol with 2 parts acrylic paint in a plastic cup.
  - Stir the mixture thoroughly and observe how the paint flows off of the stir stick. The paint should coat the stirrer but flow off it smoothly. Add a small amount of floetrol to thin the mixture.
  - If you desire a "flow" pattern on your leaverite, you are ready to go onto the next step.
  - If you want to create different flow patterns , you may want to add into your thinned paint 2-4 drops of liquid silicone, oils, OR 70% isopropyl alcohol. These additives may affect the drying of your new pattern.

### C. Procedure /Technique:

1. Determine the natural resting position that you plan to display your rock and then support it with a small cup, bottle lid or small ball of clay.
2. I would recommend that you set your leaverite to be "painted on a small plastic plate. It is also important that your plate is on a level surface while pouring paint and when allowing the paint to dry.
3. There are two basic techniques for pouring paint: straight pouring and dirty pouring.
  - \* A straight pour is simply when you individually add each color to your rock, building up layers as you go. By pouring small amounts of individual colors on top of your rock the different colors may merge to create beautiful patterns. The colored patterns can also be manipulated during the pour by rotating or tilting the base support or interfering with the flow with small brush or air flow through a straw. Straight pours can provide nice, crisp color lines.
  - \* With the dirty pour technique, all your paint colors are placed into one cup prior to being poured over the top of the leaverite. The paints may mix together in the cup or form separate layers. Dirty pours are great because as the paint is slowly poured out of the cup onto your rock the patterns created are not predictable. Dirty pours can also be manipulating with moving the support and with a small brush or air flow. In addition reflective sprinkles or other adornments can be added to the wet paint.
4. Allow your beautiful one of a kind leaverite to dry for 24 hours. Note the colors will fade as the paint dries.

To brighten the colors and protect the painted surface, spray your leaverite with hi sheen or saten silicon.

### *Reference Information Utilized by Stan Strike:*

1. <https://www.justpaint.org/understanding-the-techniques-of-pouring-acrylics/>
2. <https://mymodernmet.com/acrylic-pouring-fluid-art-basics/>
3. <https://www.momdot.com/fluid-painting-a-tutor>



## 52 Million Year Old Bird Found In Wyoming

### Billings Gazette February 12 2019

Wyoming's Fossil Lake has revealed yet another astonishing find — one of the earliest known passerine birds. Perching birds, or passerines, include species such as sparrows, finches, robins and crows. All told the birds with feet made for hanging onto limbs make up about 6,500 of the 10,000 bird species alive today.

That wasn't always the case. They were once rare, and scientists are still learning about their origins.

Fifty-two million years ago, in a period known as the Early Eocene, one of these then-rare birds was preserved in sediment in southwest Wyoming's Green River geologic formation. "This is one of the earliest known perching birds," said Lance Grande, Field Museum Negunee Distinguished Service Curator. "It's fascinating because passerines today make up most of all bird species, but they were extremely rare back then. This particular piece is just exquisite. It is a complete skeleton with the feathers still attached, which is extremely rare in the fossil record of birds."

Grande is one of the authors of a new paper published in "Current Biology" that describes two new fossil bird species — one from Germany that lived 47 million years ago, and the other that lived in what's now Wyoming.

The Wyoming bird, *Eofringillirostrum boudreauxi*, is the earliest example of a bird with a finch-like beak, similar to today's sparrows and finches. This legacy is reflected in its name; *Eofringillirostrum* means "dawn finch beak." Meanwhile, *boudreauxi* is a nod to Terry and Gail Boudreaux, longtime supporters of science at the Field Museum.

The fossil birds' finch-like, thick beaks hint at their diet. "These bills are particularly well-suited for consuming small, hard seeds," said Daniel Ksepka, the paper's lead author and curator at the Bruce Museum in Connecticut.

"The earliest birds probably ate insects and fish, some may have been eating small lizards," Grande said. "Until this discovery, we did not know much about the ecology of early passerines. *E. boudreauxi* gives us an important look at this."

"We were able to show that a comparable diversity of bill types already developed in the Eocene in very early ancestors of passerines," said co-author Gerald Mayr of the Senckenberg Research Institute in Frankfurt.

"The great distance between the two fossil sites implies that these birds were widespread during the Eocene, while the scarcity of known fossils suggests a rather low number of individuals," Ksepka added.

While passerine birds were rare 52 million years ago, *E. boudreauxi* had the good luck to live and die near Fossil Lake, a site famous for perfect fossilization conditions. "Fossil Lake is a really graphic picture of an entire community locked in stone — it has everything from fishes and crocs to insects, pollen, reptiles, birds, and early mammals," Grande said. "We have spent so much time excavating this locality that we have a record of even the very rare things."

Grande noted that Fossil Lake provides a unique look at the ancient world — one of the most detailed pictures of life on Earth after the extinction of the dinosaurs (minus the birds) 65 million years ago.

"Knowing what happened in the past gives us a better understanding of the present and may help us figure out where we are going for the future," he said.



*The 52-million-year-old fossil of *Eofringillirostrum boudreauxi*, the earliest known perching bird with a beak for eating seeds, was discovered in southwestern Wyoming. Photo Field Museum*



# Geology of Guernsey State Park

## Wyoming State Geological Survey Publication (2019)

### INTRODUCTION

Guernsey State Park, home to Guernsey Reservoir, is situated along the North Platte River just north of the town of Guernsey. One of the most prominent features of the park are the bluffs of limestone and sandstone that rise above the eastern half of the reservoir and along the river. The rocks in and around the park preserve more than 2.5 billion years of Earth's history.

"The bluffs around Guernsey Reservoir offer excellent exposure of interesting geologic features," says WSGS Director, Dr. Erin Campbell. "Near the Guernsey Dam, the geologic unconfor-

mity between the Hartville Formation and Guernsey Formation is a spectacular example of karst topography in-filled with sediment."

The park is located within the Hartville Uplift, a small mountain range with rocks showcasing more than 2.5 billion years of Earth's history. This region has a rich mining history dating back to approximately 13,000 to 11,500 years ago, making it one of the oldest mining sites in North America. For millennia, Native Americans mined hard siliceous chert and hematite, also known as red ochre, in the Hartville Uplift area for a variety of uses.



### GEOLOGIC HISTORY

Guernsey State Park is located within the Hartville Uplift, a large northeast-trending anticline, an arch shaped fold, that formed during a geologic mountain-building event called the Laramide orogeny. The Laramide orogeny occurred from about 70–35 million years ago, and resulted in the formation of the Black Hills, Hartville Uplift, and much of the Rocky Mountains.

Faulting and folding of rocks in the Hartville Uplift area during this mountain-building event

brought much older rock to the earth's surface and increased the elevation of the area. However, deformation in the Hartville Uplift was less intense than in other Laramide structures, resulting in broad, subtle structures that left the sedimentary rocks relatively horizontal.

Subsequent erosion exposed a wide range of rock types in the Hartville Uplift area. The oldest units are more than 2.5 billion years old, and crop out just southeast of Guernsey State Park. These rocks are metamorphosed carbonate, which are

# Geology of Guernsey State Park

## Wyoming State Geological Survey Publication (2019) continued from pg 14

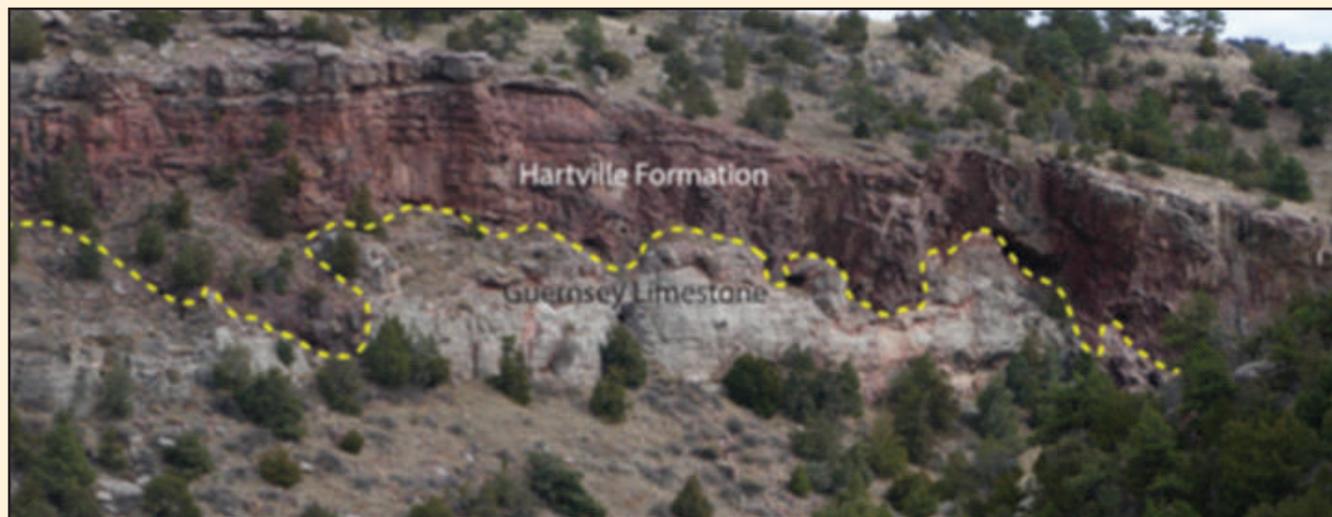
limestones and dolostones that were buried deep underground where they recrystallized due to elevated pressures and temperatures. Despite their metamorphic history, these ancient rocks contain well-preserved stromatolite fossils, layered mounds formed by photosynthetic bacteria that were some of the earliest forms of life.

### THE ROCKS OF GUERNSEY

The most prominent rocks within Guernsey State Park are the bluffs of limestone and sandstone that rise above the eastern half of the reservoir and along the North Platte River. These sedimentary rocks are part of the Guernsey Limestone and the Hartville Formation, which are exposed

across the Hartville Uplift. The Guernsey Limestone contains beds of gray limestone deposited in shallow subtropical seas when the continent was near the equator during the Early Mississippian, about 359–347 million years ago (Ma).

The Late Mississippian–Permian (~331–280 Ma) Hartville Formation was deposited on top of the Guernsey Limestone in shallow marine and coastal environments. It consists of gray limestone, tan to maroon sandstones, and mul-colored siltstones. The Hartville Formation was deposited unconformably on top of the Guernsey Limestone, meaning there was a time between deposition of the two units during which either no rocks were deposited or erosion occurred.



*The contact between limestone beds of the Guernsey Limestone and sandstones of the Hartville Formation, marked by the dashed yellow line, is highly irregular. Karst features, such as sinkholes and caverns, formed in the Guernsey Limestone before the Hartville Formation was deposited. Sediment from the Hartville Formation then filled in these features. View is to the east from above the Guernsey Dam.*

The late Oligocene–early Miocene Arikaree Formation (~28–19 Ma) overlies the Hartville Formation. It is a white fluvial (meaning it was deposited by rivers) sandstone rich in volcanic ash that forms the sparsely vegetated badlands along the western side of the reservoir near Sandy Cove. At the nearby Guernsey Ruts and Register Cliff historic sites, the names and wagon wheel ruts are carved into so Arikaree Formation sandstone.

Pleistocene fluvial conglomerates (~2.6–1.8 Ma), deposited by the Ancestral North Platte River, are exposed sporadically along valleys and above the reservoir. These thick deposits, up to 150', contain boulders, cobbles, and pebbles of a wide range of rock types, the majority of which came from the Laramie Mountains and other nearby ranges. Overlying these formations are deposits of wind-blown loess, beds of silt, clay, and very fine sand

# Geology of Guernsey State Park

## Wyoming State Geological Survey Publication (2019) continued from pg 15

that were carried by the wind. This loess was deposited during the Quaternary (between 2.6 Ma and modern times). Within Guernsey State Park, the loess forms broad slopes around the reservoir.

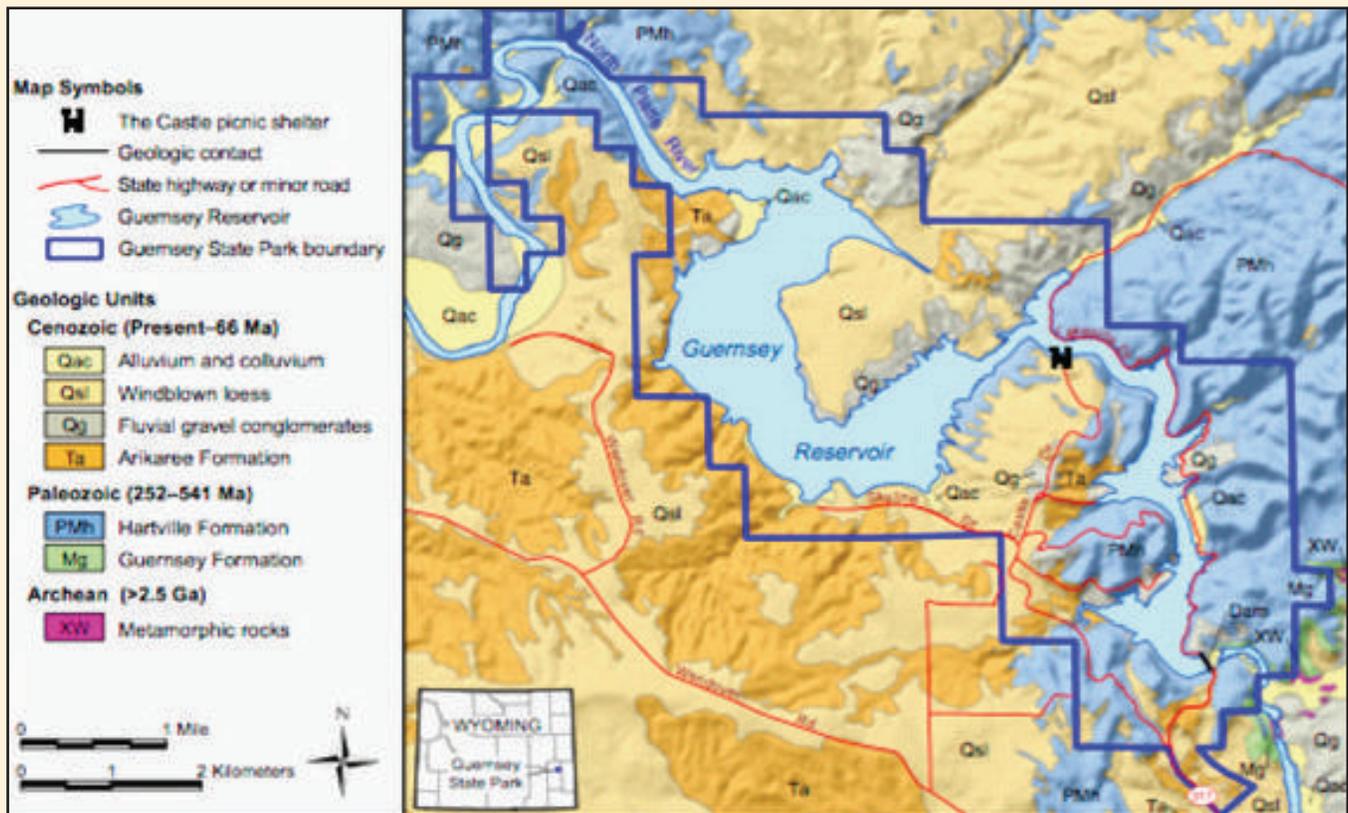
### MINING HISTORY

Some of the rocks exposed in the Hartville Uplift have undergone mineralization that made them rich in iron and copper. Native Americans mined hematite, a so iron-rich mineral often referred to as “red ochre,” and chert, a hard silica-rich rock, for a variety of uses. Evidence of mining activity in the Hartville Uplift area dates back to approximately 13,000–11,500 years ago, making this one of the oldest mining sites in North America. Commercial mining in the area began in 1880 with the production of copper,

which lasted until 1887. Iron mining began in 1898 and continued until 1980.

### HYDROGEOLOGY

The Arikaree and Hartville formations are regional aquifers used primarily for agricultural and domestic purposes. Water flows between Guernsey Reservoir and the Arikaree and Hartville aquifers to form an integrated surface water and groundwater system. Reservoir water infiltrates the rock through porous voids between individual mineral grains and through fractures and faults in the rocks. In turn, these aquifers seep groundwater back into the reservoir during the annual summer “silt run” when stored water is released from the reservoir, rapidly decreasing water levels.



Generalized bedrock geologic map of Guernsey State Park. Ages of rock are in millions of years (Ma) or billions of years (Ga).



## Wyoming RMFMS State Director’s Report By Stan Strike 2019 RMFMS Convention - Prescott, AZ

The Wyoming State Mineral And Gem Society, Inc. (WSMGS) Board consists of six members who conduct electronic meetings quarterly and an Annual Meeting at the State Mineral and Gem Show. The RMFMS WY State Director is a member of this board. The WSMGS presently has 9 affiliated Wyoming clubs located in Casper, Cheyenne, Cody, Gillette, Kimmerer, Marbleton, Powell, Riverton, and Torrington.

The WSMGS Board provides the following benefits for its WSMGS affiliated clubs:

- Conducts Annual Meeting for delegates representing WSMGS affiliated clubs;
- Promotes communication between WSMGS clubs with Membership Directory;
- Coordinates the annual WSMGS State Mineral & Gem Show (designates a host club, organizes judging of display cases, promotes show advertising, provides recognition awards, provides WSMGS trailer & contents, and secures RMFMS liability insurance);
- Publishes the Jade State Newsletter quarterly with WSMGS news updates, educational earth science articles, lapidary techniques, and WSMGS Affiliated Club News;
- Provides a WSMGS website (wsmgs.org) that provides WSMGS affiliated club information, WSMGS forms/documents, and educational topics related to rockhounding;
- Archives historical records for WSMGS affiliated clubs;
- Forwards RMFMS & AFMS communications to WSMGS clubs;
- Maintains alias email addresses to protect WSMGS club & board members’ privacy;
- Allows WSMGS clubs use of WSMGS’ 501(c)(3) status for WSMGS approved purchases;
- Provides reminders concerning required state, federal, WSMGS, and RMFMS deadlines.

1. The WSMGS total affiliated membership as of October 31, 2018 was 714 members- an annual increase of 116 members, which was a gain of 49 members in 2 new affiliated clubs and a gain of 67 new members in the other 7 clubs..
2. The WSMGS has updated its Dues Form to accurately provide membership data: as to adults (18+), juniors (12-17), pebble pups (under 12 yrs)), and honorary/life. This recognizes the AFMS guidelines and the RMFMS dues/insurance requirements:

**2018-2019 WSMGS AFFILIATED CLUB MEMBERSHIP**

CLUB	TOTAL	ADULTS	JUNIORS	PEBBLE PUPS	LIFE/HONORARY
CASPER-NATRONA	47	40	0	1	6
CODY-59ERS RC	99	79	2	14	4
CHEYENNE-M&GS	103	90	0	0	13
GILLETTE-NE WY RH	41	32	6	3	0
KEMMERER-FOSSIL BASIN	8	0	0	0	8
MARBLETON-SUBLETTE	248	179	18	47	4
POWELL-SHOSHONE RC	48	42	0	0	6
RIVERTON- M&GS	146	128	4	0	14
TORRINGTON-REX YOUNG	21	21	0	0	0
-----					
<b>Totals</b>	<b>714</b>	<b>579</b>	<b>30</b>	<b>64</b>	<b>41</b>

## Wyoming RMFMS State Director's Report By Stan Strike 2019 RMFMS Convention - Prescott, AZ continued from page 17

3. The WSMGS has two (2) new affiliated clubs located in Gillette(Northeast WY Rock Hounds) and Kemmerer-(Fossil Basin Mineralogical Society) . The WSMGS Board has helped these new clubs to thrive by providing information to become incorporated as a WY nonprofit Corporation, to develop Articles of Incorporation & ByLaws, as well as to register with the IRS. The new clubs also were provided forms to join the RMFMS.
4. The WSMGS will continue to encourage the collection and archiving of copies of all WSMGS affiliated clubs  
 legal documents and in their absence the WSMGS Board will help to develop updated or new documents. The  
 WSMGS will also continue to remind and monitor their WSMGS affiliated clubs/societies that they complete  
 the required Wyoming State and IRS reporting.
5. WSMGS communicated to our affiliated clubs a "help & suggestion" document to successfully register with  
 the IRS (new requirements for 2017 & 2018) and complete the required IRS 990-N form. See a summary on  
 the WSMGS website-wsmgs.org-Newsletters-February 2018-page 10..
6. 2019 Wyoming Mineral and Gem Shows (See details wsmgs.org-Rockhounding WY-Upcoming Events):  
 Cheyenne Mineral & Gem Society May 18-19, 2019  
 Sublette county Rock Hounds-June 14-16, 2019  
 Wyoming State Mineral & Gem Show-Cody- June 21-23, 2019  
 Natrona County Rockhounds- July 6-7, 2019
7. Communicated 2019 RMFMS Convention and Mineral & Gem show information and required forms.  
 Will collect proxies from all WSMGS clubs not attending the House of Delegates meeting on August 3, 2019 in Prescott, AZ..
8. The WSMGS Board will be represented at all 2019 Wyoming Mineral & Gem Shows.

## Club Reports

### Cheyenne Gem & Mineral Society

Next Meeting – The next meeting for the Cheyenne Gem and Mineral Society will be April 10 starting at 7:00 pm at the IBOE, 810 Fremont Ave. (on the corner of 7th and Fremont) Our guest speaker will be Dr. Uwe Kackstaetter from the Geology Department at Metropolitan State University of Denver. Dr. Kackenstaetter has written and published a unique book which literally provides a step-by-step cookbook approach to mineral identification. Through his process, it is now possible for even the novice to derive at a reason-

able positive identification of an unknown mineral sample without a lot of expensive equipment. You are welcome to bring samples and work through the identification process with him.

Memorial Service for Fred Hart- Fred Hart passed away on March 28, 2019. Fred had been a long-time club member and was always a big part of our shows fluorescent display. Services will be Friday, April 5 at 10:00 am at Resthaven Funeral Home , 8426 South Highway 287, Fort Collins, Colorado.

## Club Reports continued from page 18

### Cheyenne Gem & Mineral Society continued

May Show News -Volunteers Needed Desperately - With the Cheyenne Mineral and Gem Show right around the corner, we have a MAJOR shortage of volunteers. We need help with security, administration, working the doors, set-up and tear-down.

We are looking for pre-teens or teens to assist with the children's area. Please call Jan Shively and let her know how you would like to help.

The May meeting will be our grab bag stuffing party, so plan to attend and bring a friend.

If you have rocks (up to about 3") available for donation for the show, we are looking for some fun stuff to put into the kids area.

Field Trips – There will be a field trip to Kemmerer the first weekend in June. Plans are in the works and we'll have more on this at the meeting next week.

Miscellaneous –

Dues- Our club runs on a calendar year. The dues are due in January. \$10.00 for an individual and \$15.00 for a family. If you haven't already paid, please get this to Jan as soon as possible.

Club Pens are available for members that have their dues paid prior to the show.

We also need someone to take over the Newsletter. It takes about 1-3 hours per month August through May.

Snacks are provided by club members. Please let Jan or Donna know if you are able to supply either the drinks or snacks for a meeting.

For Sale or In Search of - If you have some-

thing that you would like to buy or sell, you may advertise in the newsletter. Contact Jan or Donna or Cathy Spencer with the information.

Faceting Machine, Jersey Instruments Omni-E Near New Condition- Machine and 16 Laps. The majority of the laps are Crystalite Corp and one steel Raytech. Call Jan Shively at 509-953-0634.

The Cheyenne Mineral and Gem Society is a non-profit organization with the following goals:

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

- To encourage the study, collecting and fashioning of minerals.

- To meet the goals through social meetings, lectures, programs, displays, shows, and field trips.

The Society has memberships in the following organizations: American Federation of Mineralogical Societies (AFMS)

Rocky mountain Federation of Mineralogical Societies (RMRMS) Wyoming State Mineral and Gem Society, Inc.

The Society meets on the second Wednesday of the month (except June, July, August and Christmas Party in December) at 7:00 P.M. at the International Brotherhood of Electrical Workers Local 415 810 Fremont Ave. Cheyenne, WY 82001

Society membership dues are \$10.00 for an individual membership and \$15.00 for a family. Club dues are due in January. Even if you joined mid-year, they are due in January. If you have a change of phone number or will be changing your email address, please let Jan know so you can stay in the loop of what is going on with the club.

### Cody 59ers Rock Club

Minutes: The meeting was called to order at 6:35pm on Feb, 28th, 2019.

The Fifty Niner's celebrated their 60th Anniversary with cake and ice cream. Not just any cake but one with a Rock Club theme as shown by decorative rocks, geodes, and hammer. We were very fortunate to have a Hollywood celeb-

rity join us for cutting the cake. It was our own Nella, dressed as "Blue" the velociraptor of Jurassic Park fame.

New member, Carolyn Williams was welcomed as well as Stan's friends Terry and Patty.

The celebration started with a Live Auction of club rocks. Terry Wood purchased the first piece of

## Club Reports continued from page 19

### Cody 59ers Rock Club continued

North Dakota petrified wood for \$17.00. The second was purchased by Wendy Fleig for \$27.00. The third, a Lysite specimen, was purchased by Janet Lohrer for \$7.00.

Elaine and Bill Tabacinski made a grand entrance and won “Best Dressed Rock Hounds”. Stan Strike earned the consolation prize. The prizes were fossilized bone specimens and rock. Six club rocks were distributed as door prizes. The Club Treasurer, Audrey Smith, reported a Grand Total of \$7386.78 in the treasury.

OLD BUSINESS. Speakers are needed for the State Show. Posters for the Show will be taken to the Chamber of Commerce. All tables for the show have been rented by vendors with the exception of the Club’s table. Members are requested to sign up as State Show assistants. The hours members are needed are Thursday 10 am to 8pm, Friday 10am 8pm, Saturday 10am – 6pm, Sunday 10am-4pm.

NEW BUSINESS Stan moved to nominated Nella as RockHound of the Year. It was seconded and passed. Nella humbly thanked the Club. Nella’s name will be sent to the state for that competition.

Stan Strike moved, it was seconded, and the club voted to have a table at the Optimus Garage Sale. The Sale will be March 30th at the Riley Arena. To confirm that you are willing to promote the club by being present at the table get in touch with Stan.

Please call Stan Strike 250-1244 to volunteer at the Rock Club’s table for a period of time between 8am – 2pm at the Riley Arena.

Stan moved that Club Officer dues, while in office, will be absorbed by the club. It was seconded and passed. The 59ers thank Paula Krisa for recording the February minutes.



#### Optimist Garage Sale-March 30th

At the February meeting of the Cody 59ers Rock Club, it was voted on to participate in the Optimist Garage-A-Rama on March 30th. The purpose of participating in this event is to promote our club and to advertise our upcoming WY State Mineral & Gem Show in Cody on June 21-23rd. Stan Strike volunteered to organize this

event for the club. We will have 2-12' X 8' spaces back to back with exposure of 24 feet on two main aisles and 16' on a side aisle. Some club rocks will be offered for sale along with donated “Garage Sale type Items”.

Stan is asking the members of the Cody 59ers to donate “Garage Sale type items” & unwanted rocks

## Club Reports continued from page 20

### Cody 59ers Rock Club continued

and to deliver them to his home at 2132 Gail Lane by Wednesday, March 27th (dead end street off of 19th street and is north of Juby's Trailer Court). If unable to deliver items to Stan's address call Stan to pick them up by calling him at 250-1244. or emailing [strikestan@gmail.com](mailto:strikestan@gmail.com) .

Volunteers are needed for setup at 4:00-6:00p.m. Friday March 29th in the Riley Arena and to attend to our sales tables on Saturday March 30th 8:00a.m. - 2:00p.m.(8-10, 10-12, or 12-2??) Call or email Stan if able to volunteer. It is fun to meet the public and to learn that people of all ages like rocks and we usually sign up a few new members and make a little money! [We made \$400 and gained 4 new members!]



### Northeast Wyoming Rockhounds Club

The Northeast Wyoming Rockhounds officially became a club in October 2018, by hosting our first official Rock Show in Gillette, WY. We have been having “show and tell” meetings and other “get-togethers since early 2017, along with hosting a Facebook page to start keeping interested rock hounds involved. Our area we cover is from the Big Horn Mts. to the South Dakota state line and from Montana south to the east-west I-25 corridor. We have members from Gillette, Sheridan, Buffalo, Sundance, New Castle, Douglas and other small Wyoming towns with even a couple from South Dakota and Nebraska joining in.

I also had started a dialog with Jim Gray, the WSMGS Club President who provided me with all the info to get the club started. I also had lots of conversations with many other Wyoming Rockhounds thru the Facebook group “Wyoming Rockhounder”. That group actually started back in 2013 with another Gillette Rockhound, Wade Wall. This allowed us to make plans for the future and do things “the right way” to get the club rolling.

With all the planning rolling and word getting out, we planned our “kick off event” in 2018 at

our first official rock show. Our October 2018 show turned out to be way bigger than we every predicted where it was mostly standing room only with all the interested people and vendors showing up. At the show, we started passing out member information and accepting those who wished to join our club. We came thru the day with 41 members that included 3 Pebble Pups, a half dozen youth and the rest adults.

With finishing all the paperwork for the club, we had our first business meeting on Jan. 19th in Gillette. We did add two more members and had discussions planning a schedule and future events. I hope to have that finalized soon which will included meetings and events held in Sheridan and also Douglas. We also have joined the RFMFS club too.

I would also like to thank everyone in the “rockhound” community who have show support for us and have helped us along the way. I have plans to attend the State Rock Show in Cody in June and look forward to meeting many of you at that time!

Jeffrey Hulings – President Northeast Wyoming Rockhounds Club

*Sublette County Rock Rounds*

# ***Gem & Mineral Show***

**3<sup>rd</sup> Annual**



## **JUNE 14 – 16, 2019**

**Friday & Saturday 9am-5pm**

**Sunday 9am-4pm**

*Rough Rock Slabs Beads  
Jewelry Cabochons Jade  
Supplies Opal Fossils*

*Demonstrations: Knapping,  
Wire Wrapping, Faceting,  
Gold Panning*

*Exhibits Field Trips  
Raffles Door Prizes  
Fluorescent Mineral Display  
Kids' Activities*

### **FOOD CONCESSION ON-SITE**

**Sublette County Fairgrounds  
Big Piney, Wyoming**

**Admission: Adults \$2.00**

**Contact [jimgray@wyoming.com](mailto:jimgray@wyoming.com)**



**GRAND PRIZE RAFFLE**  
*new discovery from Brazil*

# COME AND JOIN US AT THE 20<sup>TH</sup> ANNUAL CHEYENNE MINERAL, GEM & ROCK SHOW

HOSTED BY CHEYENNE MINERAL & GEM SOCIETY  
MAY 18 & 19

Archer Complex- Building M & K

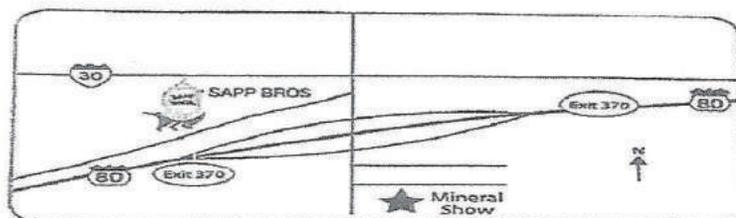
SATURDAY 9-6 SUNDAY 10-4

\$3.00 Adults Children 12 and under Free

Free Dinosaur Coloring Books for the kids while  
supplies last

EXHIBITS, JEWELRY, FOSSILS, MINERALS, DEALERS, GRAB  
BAGS, SILENT AUCTION,

FLUORESCENT MINERALS, FREE GOLD PANNING



Archer Complex - Building M  
Just South of Exit #370 on I-80  
6 mi. East of Cheyenne

## Upcoming Events

### *2019 Mineral & Gem Show Dates:*

Billings, MT, May 3,4,5, 2019

Cheyenne, WY May 25,26, 2019

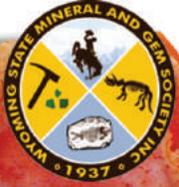
Butte, MT, June 7,8,9, 2019

Marbleton, WY June 14,15,16, 2019

Cody-2019 WSMGS WY State Mineral & Gem Show-June 21-23

Casper, WY July 13,14, 2019

Rapid City, SD. July 20,21, 2019



# 2019 Wyoming State Mineral and Gem Show

Featuring

## The Great Agate Roundup

Hosted by the

Wyoming State Mineral and Gem Society,  
Cody 59ers Rock Club, and Shoshone Rock Club

**June 21, 22, & 23**

Cody Auditorium, Cody Wyoming  
1240 Beck Ave Cody, WY

**Friday 10-8 Saturday 10-6 Sunday 10-4**

\$4 Adults K-12 \$2 Preschoolers Free

### Demonstrations/Displays

- Fluorescent UV Display
- Wirewrapping
- Flintknapping
- Cabachon Making

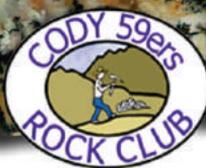
### Multi State Dealers

- Jewelry / Beads
- Fossils
- Gems
- Minerals
- Lapidary Supplies

### Educational Activities

- Mineral / Rock ID
- Kids Activities
- Guest Speakers
- Field Trips
- Exhibits/Showcases

[WYstaterockshow@wsmgs.org](mailto:WYstaterockshow@wsmgs.org)



# WSMGS CLUBS

Information subject to change; updates will be posted upon notice. Contact the Editor with changes at: [jsn@wsmgs.org](mailto:jsn@wsmgs.org)

## Cody Fifty-Niners Rock Club

P.O. Box 1251  
Cody WY 82414

[cody59ers@wsmgs.org](mailto:cody59ers@wsmgs.org)  
[www.Cody59ers.com](http://www.Cody59ers.com)

Meets 4th Thursday (Sept-May) 6:30pm  
Park County Courthouse, EOCrm, Cody

President: ..... Nella Flurkey  
Vice-President: ..... Roger Lyons  
Treasurer: ..... Aubrey Smith  
Historian: ..... Stan Strike



## Shoshone Rock Club

P.O. Box 256,  
Powell, WY 82435

[shoshonerockclub@wsmgs.org](mailto:shoshonerockclub@wsmgs.org)

Meets 2nd Tuesday 7:00pm Powell  
Library, 317 E. 3rd Street, Powell

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



## Cheyenne Mineral & Gem Society

P.O. Box 21412  
Cheyenne, WY 82001

[cheyennemgs@wsmgs.org](mailto:cheyennemgs@wsmgs.org)

Meet 2nd Wed.-7:00pm (August-May)  
IBEW Union Building-810 Fremont  
Street-Cheyenne

President: ..... Donna Arnold  
Treasurer: ..... Jan Shively  
Field Trip..... Mark Shively

## Natrona County Rockhounds

P.O. Box 123,  
Casper, WY 82644

[natronarockhounds@wsmgs.org](mailto:natronarockhounds@wsmgs.org)

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

President: ..... Mac Goss  
Vice-President: ..... John Hine  
Treasurer: ..... Kenny Platte  
Secretary: ..... Danny Hill



## Rex Young Rock Club

112 East 3rd  
Lingle, WY 82223

[rexyoungrockclub@wsmgs.org](mailto:rexyoungrockclub@wsmgs.org)

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

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



## Fossil Basin Mineralogical Society

PO Box 176 Kemmerer, WY 83101

[rexyoungrockclub@wsmgs.org](mailto:rexyoungrockclub@wsmgs.org)

Meet: 3rd Wednesday (Jan-Oct) 6-7pm  
Kemmerer Chamber of Commerce

President: ..... Don Stuart  
Vice-President: ..... Ellen Potter  
Treasurer: ..... Ellen Potter  
Secretary: ..... Sue Giorgis  
Field Trips: ..... Walter Henderson

## Sublette County Rock Hounds Club

P.O. Box 1351 Big Piney, WY 83113

[subletterockhounds@wsmgs.org](mailto:subletterockhounds@wsmgs.org)

Meets 3rd Saturday (March-Dec)  
1:00pm The Bench Grill,  
415 Winkleman, Marbleton, WY

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](mailto:newyrockhounds@wsmgs.org)

Meets: odd # months  
check email for dates

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



## Riverton Mineral & Gem Society

P.O. Box 1904, Riverton, WY 82501

[rivertonmgs@wsmgs.org](mailto:rivertonmgs@wsmgs.org)  
[www.RivertonMGS.com](http://www.RivertonMGS.com)

Meets: 2nd Monday 7:00 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..... Rob Baltes  
Field Trips ..... Ted Knowles