



Judy Gordy. Editor  
Official Newsletter of the  
Western Dakota Gem & Mineral Society  
PO Box 3620,  
Rapid City, SD, 57709-3620

Affiliated with RMFMS & AFMS

May 2017 Edition  
Meeting: May 11, 2017. 7PM

It's agate hunting time again!

The purpose of our club is to promote interest and education in geology, mineralogy, paleontology, archeology and lapidary, to sponsor and promote means of coordination of the work efforts of groups and individual.



# THE AMMONITE



Newsletter of the Western Dakota Gem & Mineral Society

May 2017

## WESTERN DAKOTA GEM AND MINERAL SOCIETY 2016-17 OFFICERS AND CHAIRMEN

<b>President:</b> Truman Goddard -- 12009 Crook City Rd, Whitewood, SD 57793 .....	605 269-2015
<b>Vice President:</b> John Dickinson -- PO Box 775, Lead, SD 57784.....	605-580-5579
<b>Secretary:</b> Judy Gordy -- 407 E Minnesota St Apt 209, Rapid City, SD 57701.....	402-208-6079
<b>Treasurer:</b> Leslie Lysenko -- 2710 Mystic Mountain Rd., Rapid City, SD 57702.....	<b>605-786-8801</b>
<b>BHRMUC Rep:</b> Ellen Tilley -- 21653 Piedmont Meadows Rd., Piedmont, SD 57769.....	605-787-4659
<b>RMFS SD Dir.:</b> Sony Hemsher -- PO Box 376, Piedmont, SD 57769.....	605-431-2755
<b>RMFMS PLAC Rep:</b> Brandon Nelson -- 1607 Sioux Ave, Rapid City, SD 57701.....	<b>605-593-6610</b>
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<b>Field Trip Chairman:</b> Ellen Tilley -- 21653 Piedmont Meadows Rd, Piedmont, SD 57769.....	605-787-4659
<b>Board Member:</b> Sony Hemsher -- P. O. Box 376, Piedmont, SD 57769.....	605-431-2755
<b>Board Member:</b> Kelly Wold -- 4511 Ridgewood, Rapid City, SD 57702.....	605-381-6418
<b>Board Member:</b> Ellen Tilley -- 21653 Piedmont Meadows Rd., Piedmont, SD 57769.....	605-787-4659
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**Club Information:** Western Dakota Gem and Mineral Society, PO Box 3620, Rapid City, SD 57709-3620

**CLUB WEBSITE** is: [www.WDGMS.org](http://www.WDGMS.org) **OTHER CLUB SITES:** Facebook -Western Dakota Gem and Mineral Society/groups.

**Meetings:** Second Thursday of each month (except August) at 7:00 PM

**At:** Minneluzahan Senior Center, 315 N 4<sup>th</sup> St., Rapid City, SD 57701

**ANY SUBMISSIONS FOR THE NEWSLETTER SHOULD BE IN BY THE 25<sup>TH</sup> OF EACH MONTH**

If you change your home address, or your email address, or *have a problem receiving a bulletin, please contact the editor at 402-208-6079 or by email at [ammonitenewsletter@gmail.com](mailto:ammonitenewsletter@gmail.com) and it will get corrected.*

**CLUB DUES:** \$15.00 per person - \$20.00 per family with children under 18 yrs – Includes 11 newsletters by E-mail.

If you chose to receive the newsletter by mail, there is an additional \$10.00 cost to cover the mailing.

Dues cover the RMFMS insurance and the newsletter.

**Send dues to the Treasurer:** Leslie Lysenko, PO Box 3620, Rapid City, SD 57709-3620

**MEETING: Thursday, May 11th**

**PROGRAM:** Billy Bierle, Director of the Lab at Sanford Underground Visitors Center

**REFRESHMENTS:** Truman Goddard

**DOOR PRIZES:** Truman Goddard

**MESSAGE FROM THE PRESIDENT –TRUMAN GODDARD**

Hi all

Well vacation was wonderful. Had a good time at the show and convention in Albuquerque, New Mexico. Spent a large amount of time with our daughter and her family. Rock wise I did get a nice piece of geode with amethyst and calcite that I gave to my daughter and granddaughter.

Saw one of our dealers at the show and he said he was planning to attend our show. Phantom has been with us for quite a few years.

We were asked about the club having the convention and show at Rapid City in 2019. I told them I wanted to see how well we performed on the show this year, then maybe. One trouble with our having it is the show would have to be expanded by one day, covering Friday, Saturday and Sunday. Which means covering a lot of bases on Friday for those who would have to work. Hope to have a good discussion at the meeting.

So hope to see you at the meeting.

Truman

**MINUTES FOR THE APRIL 11, 2017 MEETING**

The meeting was called to order at 7:02 pm by Vice President John Dickinson. President Truman Goddard attended the Rocky Mountain Federation Convention in Albuquerque, New Mexico and then is spending time with his daughter and her family in Arizona.

Our program for the evening was Kim Smith demonstrating wire wrapping and her husband Dusty, who brought along some of the rocks they have been collecting on their trips. Kim is demonstrating how she makes her tree of life pendants. She brought her projector to enlarge what she is working on so everyone can see it. She explained that she uses 3 different sizes of wire, each for a different part. The main wire that supports the stone at it's heaviest is 18 gauge. This wire is used around the outside of the rock to support it. She then drops down to 20 gauge for the bail and finally 24 gauge for the tree itself. Dusty brought around samples of chalcedony and fire agate. He had chalcedony from Arizona and South Dakota so that we could see the different appearance. When Kim was inished with her tree of life pendant, she showed everybody the finished pendant and some other wire wrapped pendants that she has done.

The meeting resumed at 7:45 pm. We had six guests tonight, who introduced themselves, Veronica and Gerald Mattson, Martin Kocanda and his son Alex, David Prado and Dodie Baugh.

Judy Gordy explained about the letters she has received from John Bolan. He is one of our members that joined at the show last year. John owns a ranch in Wyoming about 20 miles out of Newcastle on the Lance Creek Formation. They dig fossils on the property from May 1 through October 1 each year. He also has it set up so you can dig your own fossils for \$140/day or \$80/half day or \$30/day to just observe, not collect. This fee allows you to keep what you find with some exceptions. John has graciously offered the Club a field trip to his ranch to dig for fossils at no charge to us with some restrictions. If you find a T rex you don't get to keep it. Fossils valued under \$100 or about \$1,000 for the group for the day, limit of 20 to 25 people. There are no bathrooms. Arrive at the ranch about 10 am. We would be transported by atv's, with a tour of the ranch, and down to the dig site, which is a bone bed. There will be professionals there to show us what to look for and how to dig it out. And probably be done digging by about 2 pm. He says there are lots of fossils and petrified wood. No young children, age 10 is about the youngest because you a roughing it. Originally the date was suggested for between July 4<sup>th</sup> and the show.

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But in my second conversation with him, he said to pick what ever date we wanted, that maybe after the show would be better because members could see what is being found on the property, or if it would work better for a small group to come out and check everything out then the larger group could come out. And this could become a yearly event if everything works out.

School of Mines Paleontology Club is selling chocolate bunnies as a fund raiser.

Mimi Lancsak talked about a field trip to Big Thunder Gold Mine. They are open May thru October. You can have 40-50 people in the mine, or pan for gold or gems. They provide all the needed equipment. Takes 2 hours tops. You can also do both things which costs extra money and takes about 4 hours. Cost is \$9.95 plus tax for either the mine or the gold panning and \$8.95 for panning for jems.

The plastic buckets by the door are for anyone that wants some, otherwise they will be thrown away.

Leslie Lysenko was not at the meeting so Kelli Wold gave the Treasurer's report. We have a balance of \$8,236.56 Sony Hemsher moved and Ellen Tilley seconded the motion that the Treasurer's report be accepted as read.

Door Prizes were called.

The meeting was adjourned at 8:19 pm.

20 members, 6 guests and our 2 demonstrators.

Judy Gordy, Secretary

#### MINUTES FOR THE APRIL 13, 2017 BOARD MEETING

The meeting was called to order by Vice President John Dickinson at 6:00 pm. President Truman Goddard had attended the Rocky Mountain Federation Convention in Albuquerque, New Mexico and was then spending time with his daughter and her family in Arizona, so was not in attendance at this meeting.

There was a discussion about the size of the room we use at the Civic, the number of vendors, and possible ways to change the arrangement of the room so we can fit more vendors in. Judy Gordy called the Civic to get the dimensions of the room and the requirements for aisle space. In the discussion with Larry Dale, the event planner who handles our event, she explained that we needed the information to be able to adjust the organization of the room to fit more vendors since we had more vendor requests than the past arrangement can accommodate. Larry Dale supplied her with a layout of the Civic with room dimensions and stated that the optimum spacing for the aisles would be 10 feet, but that with our crowd size we could get away with 10 foot aisles around the perimeter and 8 foot aisles in the rest of the layout. There was a discussion of different layouts, ex: the display cases around the outside walls with the vendors in the middle; putting the demonstrators in the room with the speakers and eliminating those tables to be replaced by vendors; replacing the round tables with chairs for more room; having the round tables for the pot luck on Friday evening then taking them out for Saturday and Sunday. In the past the layout has been done off a hand-drawn map that Annette did, Larry Dale said that the Civic has a cad-system and that if we brought him a mock up he would have it run thru the cad-system for the final layout. The consensus was that we should try the different layouts and have a meeting at the end of the month after Truman gets back to make final decisions.

Judy Gordy brought up the purposed dino dig that John Bolan had offered and that we need to set a date, so that she can relay the plans to him. In her second conversation with John, he had said that we could have what ever date we wanted. If we wanted to wait until after the show so that people could see what he was selling at the show

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as an example of what could be found at the ranch or if a small party needed to come out to the ranch to experience a dig then a large party could come out later. But we need a date. The pros and cons of various dates were discussed. The general consensus was that a date possibly as late as September might work better because of how hot July and August can be, but if we wait too long we could get snow. Nothing definite was decided.

Truman Goddard sent an email with the information that David Prado, the son of John Prado who does the flint knapping, has recently moved from Washington State to Spearfish. He had belonged to the local rock club where he used to live and was their field trip chairman. The Girl Scout troop in Spearfish has approached him about leading a rock hunting trip for a group of 6-7 year olds and he has asked for some assistance. Judy Gordy said that she had talked to Mike Chamberlain about his request and that Mike had agreed to help David. A discussion ensued about the best place to take that age of girls. Also the need for a release to be signed by their parents absolving the club of any liability was discussed. It was also pointed out that the date being discussed was Mother's Day and that possibly Saturday would be better than Sunday. Another thought that came up was that we could make this a club field trip along with the Girl Scouts. It was pointed it that our next meeting is the Thursday before the purposed date of the field trip. It was decided that our next step was to contact David Prado.

It was decided that we should have another board meeting at the end of the month when Truman is back in town.

Tabitha Wood brought up the need for an email address for the show. One problem that she is running into with the vendors is that her email address is not the email address they are used to, which was Annette Rathert 's. If we had one email for the show, then all show correspondence could go through that address. And it could be the permanent show address. She had brought the situation up to Truman Goddard and he said it needed to be brought up before the board. Kelli Wold moved and Mike Chamberlain seconded the motion to create a permanent email address for the show. The motion passed.

The board meeting was adjourned at 6:52 pm.

Judy Gordy, Secretary

#### MINUTES OF THE APRIL 28, 2017 BOARD MEETING

President Truman Goddard called the meeting to order at 7:00 pm at the Millstone Restaurant on West Main.

The general discussion was about the show. It was pointed out that we have more vendors than there is space for so Tabitha Wood was looking at trying to rearrange the layout of the room. Judy Gordy had contacted Larry Dale at the Civic Center about the dimensions of the room and the code requirements for aisle size. Per Truman, no one talks to the Civic Center except him or possibly Brandon Nelson. We have the dimensions of the room and there were discussions of possible way to change things to possibly get more vendors in our normal space. Per Truman, we can not increase the space/number of vendors without increasing the shows attendance or our current vendors will loose money and not come back to our show. The question was raised, if we turn vendors away, will they want to apply again. The reference was made that it must be a good show if they are having to turn vendors away, that's where we should go. Tabitha has 5 or 6 vendors more than we have space for, one of which is John Bolan, who is offering the club the field trip to dig dinosaur bones. A couple of vendors are not coming back this year, but those tables have already been given out and we still have 5 or 6 that want space.

While Judy was discussing room dimensions with Larry Dale, the event planner at the Civic Center, he double checked and the rest of the room we use has not been booked for the days of our show, so we could increase the size of the room.

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Larry Dale also mentioned that if we were a 501C3 non-profit, the room rental would be cheaper. The club is listed non-profit with the state but not with the IRS. We had the 501C3 status at one time, but it somehow got lost. If the IRS comes in, they can take taxes for each year we didn't have the status and fine the officers because we didn't file properly.

There was some discussion about publicity. Judy Gordy said she had offered to give someone some money for gas to do all the running she needs done to get the notices about the show out. Truman said that would have to go before the Club for approval, it could not come out of the \$500 budget allotted for publicity.

In the discussion about publicity, there were some people who felt \$500 was not going to be sufficient for publicity and printing costs, and that the budget needed to be raised to \$1500.

Judy Gordy mentioned that we were going to be on the KOTA Noon News on July 3<sup>rd</sup>. She didn't schedule the date as early as in past years and July 3<sup>rd</sup> was the only date left open in July.

John Dickinson brought up the field trip with David Prado for the Girl Scouts and that we needed to get the details finalized. Judy Gordy said that David Prado had called to let us know that the Girl Scouts had decided to cancel, they decided they were a little a head of themselves.

The meeting was adjourned at 8:00 pm.

Judy Gordy, Secretary

#### ANNOUNCEMENTS

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REMEMBER THE ROCK SHOW IS JULY 22<sup>nd</sup> & 23<sup>rd</sup>. NEED LOTS OF VOLUNTEERS. IF YOU WANT TO HELP WITH THE SILENT AUCTION, CONTACT TABITHA WOOD 402-706-0168 OR [nestormdancer2003@hotmail.com](mailto:nestormdancer2003@hotmail.com). IF YOU WANT TO HELP AT THE INFORMATION TABLE OR ADMISSION TABLE, CONTACT JUDY GORDY 402-208-6069 OR [ammoniteneewsletter@gmail.com](mailto:ammoniteneewsletter@gmail.com). ANY OTHER JOBS, TALK TO BRANDON NELSON 605-593-6610 or [nelson.bc@gmail.com](mailto:nelson.bc@gmail.com) OR TRUMAN GODDARD 605-298-2015 OR [trumangoddard@gmail.com](mailto:trumangoddard@gmail.com).

REMEMBER TO SAVE DOZEN SIZE EGG CARTONS FOR ELLEN TILLEY FOR THE KIDS CORNER AT THE ROCK SHOW

ANY SUGGESTIONS FOR PROGRAMS FOR OUR MEETINGS? PLEASE TALK TO JOHN DICKINSON. NEED PROGRAMS FOR JULY, OCTOBER, AND NOVEMBER.

REMEMBER THE SIGN UP SHEET FOR DOOR PRIZES AND REFRESHMENTS. WE NEED REFRESHMENTS FOR JULY, SEPTEMBER, AND NOVEMBER. DOOR PRIZES FOR JUNE, JULY, SETEMBER, OCTOBER, AND NOVEMBER.

MAY 15<sup>th</sup> AT 7 PM AT THE JOURNEY MUSEUM THE ASTRONOMICAL SOCIETY WILL HAVE RICHARD WALKER SPEAKING ABOUT THE TOTAL SOLAR ECLIPSE ON AUGUST 21, 2017. THE FIRST ONE VISIBLE IN THE US IN 99 YEARS.

MAY 16<sup>th</sup> 6-8:30 PM THE SOUTH DAKOTA ARCHAEOLOGY SOCIETY MEETS AT 217 KANSAS CITY ST. ARTIFACT SHOW AND TELL.

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### FUTURE SHOWS

#### MAY 2017

- 5-7 – Kalamazoo, Michigan – Annual Show – by Kalamazoo Geological and Mineral Society – Kalamazoo County Expo Center, 2900 Lake Street – Fri. 4-8, Sat. 10-6, Sun. 10-5 – Adults \$4, Children 12 and under free
- 5-7 – McPherson, Kansas – 25<sup>th</sup> Annual Show – by McPherson Gem & Mineral Club – 4-H Building & Grounds, 710 W Woodside – Fri. 9-6, Sat.9-6, Sun. 10:30-3 – Free Admission
- 5-7 – Yucaipa, California – Annual Show – by Yucaipa Valley Gem & Mineral Society – Yucaipa Blvd and Adams St – Fri. 6-10, Sat. 12-10, Sun.12-6 – Free Admission
- 6-6 – Arlington, Texas – Swap Meet – by Arlington Gem & Mineral Clubs – Arlington Gem & Mineral Club, 1408 Gibbens Road – Sat.7-3 -- Free
- 6-6 – Biglerville, Pennsylvania – Annual Show – by Franklin County & Central Pa Rock & Mineral Clubs – South Mountain Fairgrounds, 615 Narrows Road – Sat. 7-3 – Free
- 6-6 – Waterloo, Ontario, Canada – Annual Show – by Kitchener Waterloo Gem and Mineral Club – Waterloo Community Arts Center, 25 Regina Street North – Sat. 10-4 – Free Admission
- 6-7 – Anaheim, California – Annual Show – by Searchers Gem & Mineral Society – Brookhurst Community Center, 2271 W. Crescent Ave – Sat. 10-5, Sun. 10-4:30 – Free Admission
- 6-7 -- Billings, Montana – Annual Show – by Billings Gem and Mineral Club – Al Bedoo Shrine Auditorium, 1125 Broadway Avenue – Sat. 10-5, Sun. 10-4 – Admission \$3, Children 12 and under free
- 6-7 – Brainerd, Minnesota – 15<sup>th</sup> Annual -- Hosting the 77<sup>th</sup> Convention of the Midwest Federation of Mineralogical and Geological Societies – by Cuyuna Rock, Gem, and Mineral Society – Crow Wing County Fairgrounds, 2000 SE 13<sup>th</sup> St. – Sat. 9-5 , Sun. 10-4 – Admission \$1, Students under 16 free
- 6-7 – Cincinnati, Ohio – Annual Show – by Cincinnati Mineral Society and Cincinnati Dry Dredgers – Sharonville Convention Center, 11355 Chester Road – Sat. 10-7, Sun. 11-5 – Adults \$9
- 6-7 – Everett, Washington – 64<sup>th</sup> Annual Gem, Jewelry and Mineral Show – by Everett Rock and Gem Club – Everett Community College, Walt Price Student Fitness Center, 2206 Tower Street – Sat. 10-6, Sun. 10-5 – Free Admission
- 6-7 – Kingman, Arizona – Annual Show -- by Mohave County Gemstones – Kingman Academy of Learning, 3420 N Burbank Ave – Sat. 9-5, Sun. 9-4 – Free Admission
- 6-7 – Lubbock, Texas – 59<sup>th</sup> Annual Show – by Lubbock Gem & Mineral Society – Lubbock Memorial Civic Center, 1501 Mac Davis Lane – Sat. 10-6, Sun. 10-5 – Adults \$4, Seniors \$3, Students \$2, Children free
- 6-7 – Marshfield, Wisconsin – Annual Show – by Heart of Wisconsin Gem & Mineral Society – Marshfield High School Field House, 1401 Becker Rd. Sat. 10-5, Sun. 10-4 – Free Admission
- 6-7 – North Charleston, South Carolina – Annual Show – by Low Country Gem & Mineral Society – North Charleston Coliseum, 5001 Coliseum Drive – Sat. 10-5, Sun. 10-5 – Free Admission

**6-7 Pittsburgh, Pennsylvania – Annual Show – by MSNEPA – St. Joe's Oblates, 1880 Hwy 315 – Sat. 10-5, Sun. 10-4 – Admission \$3, Children under 12 free**

**6-7 – Reno, Nevada – 52<sup>nd</sup> Annual Jackpot of Gems Show – by Reno Gem & Mineral Society – Livestock Event Center, 1350 N Wells Ave – Sat. 10-5, Sun. 10-4 – Adults \$6 , Seniors/Students \$4, Children free**

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**6-7 -- Roseburg, Oregon – 47<sup>th</sup> Annual Show – Umpqua Gem and Mineral Club – Douglas County Fairgrounds -- I-5 Exit 123 – Sat. 9-5, Sun. 10-4 – Free Admission**

**6-7 – Topsfield, Massachusetts – New England Gem & Mineral Show – by North Shore Rock & Mineral Club – Topsfield Fairgrounds, Fair Trade Building and Coolidge Hall, Rte 1, North – Sat. 9-5, Sun. 10-4 – Adults \$6, Seniors \$4, Children under 12 free**

**6-7 – Washington, Pennsylvania – Show and Sale – by M & F Minerals – Washington County Fairgrounds, 2151 North Main St. – Sat. 10-6, Sun. 11-5 – Admission \$3, Children 12 & under free**

**11-13 – Logan, Utah – Annual Show – by Cache Rock and Gem Club – Bridgeland Applied Technology College, West Campus, 1000 West 1400 North – Thur. 10-8, Fri. 10-8, Sat. 9-6 – Free Admission**

**11-14 – Franklin, North Carolina – Annual Show – by Danian Belghali – Echo Valley Show Place (across from GLW), 6456 Sylva Rd – Thur. 9-5 – Free Admission**

**12-14 – Costa Mesa, California – Wholesale & Retail Show – by Gem Faire, Inc – OC Fair & Event Center, 88 Fair Dr – Fri. 12-6, Sat. 10-6, Sun. 10-5 – Admission \$7 weekend pass, Children free(ages 0-11)**

**12-14 – Franklin, North Carolina – Annual Show – by Gem & Mineral Society of Franklin, NC -- Carpenter Building, 1288 Georgia Road (US 441) – Fr. 10-5, Sat. 10-5, Sun. 10-5 – Free Admission**

**12-14 – Honolulu, Hawaii – Annual Show – by Rock and Mineral Society of Hawaii – Honolulu Museum of Art School, Linekona Building 2<sup>nd</sup> floor, 1111 Victoria Street – Fri. 5-8, Sat. 10-5, Sun. 10-5 – Free Admission**

**12-14 – Marietta, Georgia – 49<sup>th</sup> Annual Mother's Day Weekend Gem, Mineral, Jewelry, and Fossil Show – by Georgia Mineral Society – Cobb Civic Center, 548 South Marietta Pkwy, SE – Fri. 10-6, Sat. 10-6, Sun. 12-5 – Free Admission**

**12-14 – Richland, Washington – 29<sup>th</sup> Annual Treasure Hunt – by SE Wa. Assoc. Treasure Hunters – Horn Rapids County Park – Fri. 7-10, Sat. 7-9, Sun. – Free Admission**

**12-14 – Sacramento, California – Wholesale & Retail Show – by Gem Faire, Inc – Scottish Rite Center, 6151 H St – Fri. 12-6, Sat. 10-6, Sun. 10-5 – Admission \$7 weekend pass, Children free (ages 0-11)**

**13-13 – Enid, Oklahoma – Annual Rock Swap – by Enid Gem & Mineral Society – Meadowlake Park, 1220 West Rupe Street, South Entrance, Big Pavilion – Sat. 9-4 – Free Admission**

**13-13 – Fairlegss Hills, Pennsylvania – Annual Earth Science Show and Sale – by the Rock & Mineral Club of Lower Bucks County, Pa. – Christ United Methodist Church, 501 Wistar Road – Sat. 9-3 – Admission \$2, Children free**

**13-14 – Bozeman, Montana – Annual Show – by Bozeman Gem & Mineral Club – Gallatin County Fairgrounds, Building #1, 901 North Black – Sat. 10-5, Sun. 10-4 – Admission \$3, under 12 free**

**13-14 – Canandaigua, New York – Annual Show – by Finger Lakes Gem, Mineral & Fossil Club – Greater Canandaigua Civic Center, 250 North Bloomfield Road – Sat. 10-6, Sun. 10-4 – Admission \$5, Children free**

**13-14 – Cheyenne, Wyoming – 18<sup>th</sup> Annual Show – by Cheyenne Gem and Mineral Society – Archer Complex, Archer**

13-14 – Hermiston, Oregon – Annual show – by Hatrockhounds Gem & Mineral – Hermiston Conference Center, 45 South Highway 395 – Sat. 10-5, Sun. 10-4 – Admission \$3, 12 & under free with adult

19-21 – Hamilton, Montana – 79<sup>th</sup> Annual Show and 2017 NFMS Show – by Bitterroot Gem and Mineral Society – First Interstate Center, Ravalli County Fairgrounds, 100 Old Corvallis Road – Fri. 10-6, Sat. 10-6, Sun. 10-4 – Admission \$3, Under 12 free with adult

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19-21 – Joplin, Missouri – Annual Show – by Tri-State Gem & Mineral Society – Joplin Museum, 504 Schifferedecker Ave – Fri. 10-6, Sat. 10-6, Sun. 10-3 – Free Admission

19-21 – Santa Ana, California – Wholesale and Retail Show – by LLD Productions, Inc. -- Holiday Inn OCA, 2726 S Grand Ave – Fri. 10-6, Sat. 10-6, Sun. 10-5 – Free Admission

19-21 – Santa Barbara, California – Wholesale and Retail Show – by Gem Faire, Inc. – Earl Warren Fairgrounds, 3400 Calle Real – Fri. 12-6, Sat. 10-6, Sun. 10-5 – Admission \$7 weekend pass, Children Free (ages 0-11)

20-20 – Danbury, Wisconsin – Annual Show, Rock Swap & Sale – by Stone Hinge Rock Shop – 4640 Lake Rd. – Sat. 9-5 – Free Admission

20-21 – Bennington, Vermont – Annual Show – by Southwestern Vermont Mineral & Gem Club, Inc. – Grace Christian School – 104 Kocher Dr – Sat. 10-5, Sun. 10-3 -- \$5 Admission, Children free

20-21 – Lakeview, Oregon – Annual Show – by Tallman Rock Chippers – Lake Co. Fairgrounds, 1900 N 4<sup>th</sup> – Sat. 10-5, Sun. 10-4 – Free Admission

20-21 – North Olmsted, Ohio – 49<sup>th</sup> Rock-A-Rama – by Parma Lapidary Club – North Olmsted Soccer Sportsplex – 31515 Lorain Ave – Sat. 10-5, Sun. 10-5 – Admission \$6

20-21 – San Francisco, California – Annual Show – 30<sup>th</sup> Anniversary of the San Francisco Crystal Fair – by Pacific Crystal Guild – Fort Mason Center, 2 Marina Blvd – Sat. 10<sup>7</sup>/<sub>8</sub>-6, Sun. 10-4 – Adults \$12

20-21 – St. Joseph, Michigan – Annual Show – by Blossomland Gem & Mineral Society – Lake Michigan Catholic Elementary School, 3165 Washington Ave – Sat. 9-6, Sun. – Free Admission

20-21 – Seattle, Washington – Annual Show – by Seattle Mineral Market – Lake City Community Center, 12531 28<sup>th</sup> Ave NE – -- Sat. 10-6, Sun. 10-6 – Free Admission

20-21 – Wauwatosa, Wisconsin – Annual Show – by Wisconsin Geological Society – Muellner Building, Hart Park, Wauwatosa, Park entrance at 72<sup>nd</sup> and State Street – Sat. 10-5, Sun. 10-5 ----Adults \$3, Children free

26-28 – Cloverdale, California – Annual Show – by Karmic Beads and Gems – Cloverdale History Center, 215 North Cloverdale Blvd – Fri. 10-6, Sat. 10-6, Sun. 10-4 – Free Admission

26-28 – Salem, Virginia – Annual Show – by Treasures Of The Earth Gem & Jewelry Shows – Salem Civic Center, 1001 Boulevard – Fri. 10-6, Sat. 10-6, Sun 11-5 – Adults \$5 (Good all 3 days), Children Free under Age 16

26-29 – Scottsbluff, Nebraska – Annual Show – by Panhandle Rock and Gem Club – Riverside Zoo Campgrounds, 1600 S Beltline Hwy W – Daily 8-5 – Free Admission

27-28 – Bisbee, Arizona – Annual Show – by City of Bisbee – Queen Mine, 478 N Dart Rd – Sat. 9-5, Sun. 9-5 – Free Admission

27-28 – Fort Worth, Texas – 66<sup>th</sup> Annual Show – by Fort Worth Gem and Mineral Society – Will Rogers Memorial Center, 3401 West Lancaster – Sat. 10-6, Sun. 10-5 – Adults \$5, Seniors/Students \$4, Children under 16 are free

27-28 – Newport, Oregon – 54<sup>th</sup> Annual Show – by Oregon Coast Agate Club – National Guard Armory, 541 SW Coast Hwy 101 – Sat. 10-6, Sun. 10-4:30 – Admission \$2, Children 12 and under free

27-28 – Pinetop, Arizona – 20<sup>th</sup> Annual Show – by White Mountain Gem & Mineral Club -- Hon-Dah Convention Center, 777 Highway 260 – Sat. 9-6, Sun. 10-4 – Adult \$2, Seniors \$1

27-28 – St. Charles, Illinois – Annual Show – by CGMA (Chicagoland Gem & Minerals Association) – Kane County Fairgrounds, 525 S. Randal Road – Sat. 10-6, Sun. 10-5 – Adults \$5, Seniors \$3, Students \$3, Children under 13 free

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June 2-4, 2017 -- Wauseon, Ohio -- Jewelry, Rock, and Mineral Show – by State Line Gem & Mineral Society – Fri. 12-7, Sat. 10-7, Sun. 11-4 ---Fulton County Fairgrounds 8591 State Route 108, Wauseon, Oh.

June 9-11, 2017 – Ventura, California – Ventura Rocks the Nation – CFMS – AFMS Show – by Ventura Gem & Mineral Society – Member of the California Federation of Mineral Societies – Fri. – SAT. 10 am – 5 pm, Sun. 10 am – 4 pm – Ventura County Fairgrounds, 10 Harbor Blvd, Ventura, Ca.

July 22-23, 2017 – Rapid City, South Dakota -- 37<sup>th</sup> Annual Gem & Mineral Show – by Western Dakota Gem & Mineral Society – Rushmore Plaza Civic Center – Sat. 9-6, Sun. 10-4 – Set up day is Fri. 8-6 with a Pot Luck dinner at 6 pm for members and vendors.

#### AUGUST MEETING – POT LUCK PICNIC

The reservation has been made with the Rapid City Parks & Recreation Dept. for our August meeting. It will be held on our usual meeting night, Thursday, August 10, 2017, at our “usual” place – the old Storybook Island picnic shelter. More details to follow. This is a welcome respite from all the activity associated with the annual show & there is always lots of good food.

Leslie Lysenko

#### THANK YOU FROM MICKEY SNOOK

Mickey Snook wanted to thank everyone one who donated rocks and materials for his visits to the schools and other groups. May 11<sup>th</sup> will be his last visit this school year. He has went through 18 of those big pretzel containers that hold 40-45 pounds of rock each.

Anybody with rock that they would like to contribute to the cause is greatly appreciated. Just let Mickey know



The Exploratorium and NASA will air a live broadcast of the eclipse from Madras. The eclipse begins at 9:06 am with totality expected from 10:19 to 10:20 am. Watch it from home via the Exploratorium's live stream at [www.exploratorium.edu/eclipse](http://www.exploratorium.edu/eclipse).

Oregon's Lowell Observatory astronomers will host a solar eclipse experience (\$10) August 20-21 in Madras, with astronomy talks, science demonstrations, star parties and eclipse narrations, by Lowell astronomers and science Channel personalities; [www.lowellsolareclipse.com](http://www.lowellsolareclipse.com)

Madras' Oregon Solarfest (\$15 - \$60) [www.oregonsolarfest.com](http://www.oregonsolarfest.com) will run from August 17-22, complete with educational activities live music, hot air balloon and helicopter rides and Solartown Campgrounds.

Other eclipse viewing parties and festivals at the NASA Eclipse Headquarters at <https://eclipse2017.nasa.gov>

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### ANTARTICA'S MASSIVE LAKES, RIVERS, AND STREAMS COULD HELP US UNDERSTAND RISING SEA LEVELS

The Verge by Alessandra Potenza April 19, 2017 3:18 pm/7:32 pm

Scientists have finally figured out that Antarctica is not a huge static block of ice, but has an extensive network of lakes, rivers, and streams. This network has existed for decades and their meltwater does affect the stability of the ice shelves, which has important implications for sea level rise.

Antarctica is surrounded by hundreds of floating ice shelves that play an important part in preventing sea levels from rising. They also keep the ground based ice from flowing into the sea which would raise sea levels by several feet. Scientists have known that during the summer, some surface ice and snow, on the ice sheets, melts pooling into lakes and streams. But until now, the phenomenon was thought to be pretty rare, according to Alison Banwell at the University of Cambridge's Scott Polar Research Institute. The new study, published in NATURE, shows that the network of lakes and streams is quite widespread on the tops of many ice sheets, transporting water up to 75 miles. Some ponds are up to 50 miles long. "The fact that there are these huge rivers moving water for hundreds of kilometers, that's even quite an exciting discovery." Lead study author Jonathan Kingslake, geologist at Columbia University's Lamont-Doherty Earth Observatory, tells The Verge. "They're very common across the ice sheets, but we are a long way from being able to understand how they behave and how they will impact the ice sheets in the long term."

There is lots that scientists don't know about how the meltwater interacts with the ice sheets. The lakes and ponds that form on top of the ice were thought to be dangerous because the weight of the liquid water could crack the ice. When the water drains through the crevasses it could freeze, expand and widen the cracks and fracture the ice. This process is believed to be the cause of the break up of the Larsen B ice shelf in 2002. Today's study also shows that the meltwater flows downhill in rivers for miles across the continent. Another study, also published today in NATURE, shows that the meltwater doesn't necessarily weaken the ice shelf. This second paper studied the particular region called the Nansen ice shelf located in west Antarctica. This area has large complex river networks that allow huge amounts of meltwater to flow off the shelf and into the ocean in a 400-foot-wide waterfall.

The drainage system maybe protecting the ice shelf by getting the water off quickly before it's weight can crack the ice. That would mean the meltwater isn't necessarily dangerous. Per Robin Bell, a Polar scientist at Columbia University's Lamont-Doherty Earth Observatory, "We've always thought the meltwater acted like a jack hammer on the ice shelf. This study suggests that we can't be sure that if the temperature is turned up, every ice shelf will collapse. The study suggests the process will be more complex.

Scientists expect that as temperatures rise, there will be more meltwater in Antarctica and that understanding how the meltwater behaves and what effects it has are key to predicting how it will affect that part of the world and whether sea levels will rise.

In the first study, aerial photos from 1947 onward and satellite images from 1973 onwards were studied. They found that a complicated drainage system has always existed and that parts of this system are within 375 miles of the South Pole and at 4,300 feet above sea level. These areas were thought to be clear of liquid water.

It's impossible to tell if the amount of meltwater has increased in the last 70 years. Because photos were not taken on a regular basis. You might have one from 1973 and then not another one until 1980, and that seven year gap does not allow researchers to understand trends or calculate whether they are seeing changes in meltwater.

At present, there doesn't seem to be significant change in the volume of meltwater but as the earth warms scientists expect more meltwater in the lakes and rivers. What effect this will have on the stability of the ice shelves remains to be seen.

According to Kingslake, the meltwater systems are really interesting and complicated and there is a lot we don't understand. The studies published in NATURE are important because they add a piece to the puzzle of figuring out how the largest reserve of ice on Earth works. As temperatures rise and waters warm, this information will be key to understanding how sea levels will rise.

Kingslake got interested in Antarctica's drainage systems by surfing Google Earth. In 2010, while surfing the site, he noticed the ponds on the ice and was inspired to study more detailed information.

Today, he tells his students to not feel bad about procrastinating by looking at Google Earth images. You never know what you're going to find and it's not a waste of time.

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#### 14,000-YEAR-OLD VILLAGE DISCOVERED IN CANADA ONE OF THE OLDEST SETTLEMENTS EVER FOUND IN NORTH AMERICA

The Independent. April 8, 2017. 1155 am

A village, estimated to be 14,000 years old has been found on Triquet Island, about 500 kilometers northwest of Victoria, Canada. This ancient village is believed to be one of the oldest settlements ever found in North America, even older than Egypt's pyramids.

Scientists are finding tools for lighting fires, fish hooks, and spears dating back to the ice age. This is showing how civilization began in North America. Alisha Gauvreau, an Anthropology PHD student at the University of Victoria and researcher at the Hakai Institute, which supports the archaeological team, said that when the dates came back, the team just sat there going holy moly this is old. This is changing our idea of how North America was first people."

Experts believe a large migration may have occurred on British Columbia's coastline. This discovery also matches the oral history of the Heiltsuk Nation, a First Nation Government of British Columbia. The Heiltsuk's oral traditions tell of ancient coastal villages. William Housty, from the Heiltsuk Nation, said to think about how the oral traditions have survived and are now being supported by archaeological evidence, it's just amazing.

#### PREHISTORIC HUMAN DNA IS FOUND IN CAVES WITHOUT BONES

Science AFP April 27, 2017

WASHINGTON – Prehistoric human DNA has been uncovered in caves without bones by International Scientists – An advance that could shed new light on human history and evolution. The study was published in the journal SCIENCE and is based on 85 samples from sediments dating to the Pleistocene, 550,000 to 14,000 years before the modern era. The samples were from eight caves in Belgium, Croatia, France, Russia, and Spain. These are well known sites that are known to have been occupied by cousins of modern humans, the Neanderthals and Denisovans, as well as a variety of extinct animals. Per Antonio Rosa, scientist at Spain's Natural Science Museum in Madrid, "this work represents an enormous scientific breakthrough. We can now tell which particular stratigraphic level, even when no bone or skeletal remains were present."

sample size of Neanderthal and Denisovan mitochondrial genomes, which has been limited until now because of the limited number of preserved remains.” According to the Spanish National Research Council.

## **HARDROCKERS LOOK TO HELP FOSSIL PRESERVATION IN UTAH**

By Robert Grant Posted Thurs 5:19 pm April 27, 2017 Updated Thurs. 6:42 pm April 27, 2017

The School of Mines class has spent the semester creating a management plan to help improve the Cleveland Lloyd Dinosaur Quarry. The fossils were protected by aging buildings that students say allows mold to grow. The students also recommended increasing staff and security and community engagement. The site is managed by the Bureau of Land Management which reached out to the School of Mines for help.

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Nicholas Reid, a sophomore at the School of Mines said “Having a BLM site, especially one of such unique importance reach out to us, has really imparted in me that School of Mines is a world-renowned school and something that’s good enough that other people come to us for help.”

Students also worked with experts for the projects, including some from the Mammoth site in Hot Springs.

## **CLEVELAND LLOYD DINOSAUR QUARRY**

For detailed information contact:. Price Field Office, Bureau of Land Management, 125 S 600 W, Price, Utah 84501

435-636-3600

Cleveland Lloyd Dinosaur Quarry is one of the leading dinosaur fossil sources. More than 12,000 individual bones and one dinosaur egg have been found in this prolific fossil bed. The number of “complete skeletons” recovered is unknown because the bones are all in a disarticulated state.

This is a working quarry where scientists conduct ongoing research. There is a large visitors center with many exhibits. The facilities are open daily during the summer and Thursday thru Sunday during the Spring and Fall. The quarry is closed from the end of October thru early March.

Today, the Visitors Center has a complete Allosaur skeletal reconstruction, and a Stegosaur wall mount. At the quarry, you can see the work in progress under a covered building, where you see the actual bones in place. Recognized worldwide as a primary location for fossilized Allosaur bones, the quarry was designated a National Natural Landmark in 1966.

**RECENT HISTORY**—University of Utah began studies in 1929. Princeton University did extensive work in 1939-1941, financed by Malcolm Lloyd, to obtain a museum exhibit. Because of the proximity to Cleveland, Utah, the quarry became known as the Cleveland Lloyd Quarry.

In 1969, the University of Utah began a 5-year project with several cooperating schools and museums including Brigham

In 2001, the University of Utah resumed investigations, but with the focus on trying to figure out what happened to produce this collection of fossils instead of just collecting more specimens.

They have taken the bones to represent 70 different animals and 11 species. Casts and original skeletons assembled from these bones are displayed in 60 museums world wide including the College of Eastern Utah Prehistoric Museum in Price, Utah.

**NATURAL HISTORY** – Many theories have been proposed to explain this deposit. Everything from lake deposit, river deposit, swampy bog to something involving earthquakes, all have been dismissed by scientists. The current theory produced by the University of Utah's recent work is that of a watering hole in a drought- stricken land . It's promising but also has a few holes, which means it may not be correct either. But whatever, the bones have been there for 147 million years. Covered by terrestrial deposits such as flood plain material, river channel, lake deposits, volcanic ash for the next 50 million years, an interior seaway for the next 20 million year, then more terrestrial deposits for another 40 million years until erosion took over and started removing all the rock.

The bones are now near the surface and can be recovered by scientific excavations. Two-thirds of the bones are from Allosaurus, one of the largest carnivores of the Jurassic period. Also plant-eating Stegosaurus, Camarasaurus, and Camptosaurus. In the mid 1970's, James Madsen Jr. described two new dinosaurs from the bones uncovered here. These small carnivores were named Stokesosaurus clevelandi and Marshosaurus bicentesimus.

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**LOCATION** – The quarry is 30 miles south of Price, Utah at the end of a grade road. Look for the dinosaur sign at road intersections. Room--size boulders scattered about create a unique setting for the exhibit buildings, picnic facilities and the self-guided rock walk nature trail. The quarry is open weekends : Thursday, Friday and Saturday (weather permitting) from early March until Memorial Day, and daily from Memorial Day through Labor Day, then weekends SETEMBER and October. Hours are 10 am to 5 pm except Sunday's which are Noon to 5 pm.

This is a Federal Government "Fee Demonstration Project" therefore an entrance fee of \$5.00 per adult, under 16 are free. All funds collected stay at the site and are used for operations and improvements.

The Cleveland Lloyd Quarry is a National Natural Landmark since 1966 and is protected under the Historic Sites Act of 1935. Collecting of fossils, rocks, plants, or animals is not allowed.

### KENNEWICK MAN, THE ANCIENT ONE

Burke Museum. February 20, 217

**STATEMENT ON THE REPARTIATION OF THE ANCIENT ONE. MONDAY, FEBRUARY 20, 2017**

On Friday, February 17, 2017, the remains of the Ancient One, also known as Kennewick man was returned to the tribes who claimed him as their ancestor.

The Burke Museum provided curation for the Ancient One from 1998-2017. Under contract with the Army Corps of Engineers, the government agency, who controlled the remains until they were repatriated.

The Ancient One was returned to the tribes under the NAGPRA – the federal law that allows tribes to reclaim human remains and cultural items from museums and other institutions. The Burke Museum values their long standing relationships with the tribes, the US Army Corps of Engineers and the Washington State Department of Archaeology and Historic Preservation in accordance with our mission as the Washington State Museum of Natural History and Culture.

**WHO IS “THE ANCIENT ONE” ALSO KNOWN AS ”KENNEWICK MAN”?** On July 28, 1996, two men found part of a human skull in the Columbia River about 10 feet from shore at Columbia Park in Kennewick, Washington. Later searches revealed a nearly complete skeleton.

Controversy started when independent archaeologist Dr James Chatters, working under contract with the Benton County Corner thought the bones might not be a Native American. He described them as “caucasoid” and sent a piece of bone to be dated. The results indicated the age of 9,000 years or older. Making the Ancient One among the oldest and most complete skeleton in North America. Later research dated the skeleton to between 8,400-8,600 years old.

Shortly after the skeleton was found, a group of scholars sued the Federal Government – the US Army Corps of Engineers – to prevent the remains from being returned to the tribes under the NAGPRA – Native American Graves Protection and Repatriation Act.

NAGPRA, passed in 1990, provides for the return of Native American remains to the tribal communities if the tribes can prove they are related to the remains. The scientists argued that the remains could not be proven to be related to the tribes and should be able to be studied. Several Oregon and Washington tribes joined the government in defending the suit.

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On April 19, 2004, the 9<sup>th</sup> Circuit Court of Appeals upheld the earlier US District Court's ruling that the remains could not be proven to be Native American and should therefore remain under the control of the US Army Corps of Engineers and available for scientific study by the plaintiffs.

**WHY WERE THE REMAINS AT THE BURKE MUSEUM?** During the dispute, the court designated the Burke Museum, the Washington State Museum of Natural History and Culture, as the most suitable neutral place to keep the remains safe.

**WHAT STUDIES WERE CONDUCTED USING THE REMAINS?** After the 2004 ruling, the plaintiffs and their colleagues made three trips to the Burke for scientific research on the remains. Representatives of some of the tribes also visited the remains to conduct ceremonies,

In September 2014, Dr Douglas Owsley, Smithsonian Physical Anthropologist and one of the plaintiffs shared his morphology based findings that indicated the skeleton was not Native American, but more closely related to circumpacific groups like the Ainu and Polynesians.

In June 2015, University of Copenhagen Geneticist Dr Eske Willerslev and colleagues released findings in the journal NATURE that after sequencing the genome for Kennewick Man and comparing DNA from his hand bone with worldwide genome data. He was most closely related to modern Native Americans than any other population.

**WHAT PROMPTED THE RETURN OF THE REMAINS TO THE TRIBES?** After DNA findings confirmed Kennewick Man was Native American, the tribes claimed him as their ancestor and began the process of reclaiming the remains.

**WHAT HAPPENED TO THE REMAINS?** The remains were reburied in a private ceremony and location according to the traditions of the tribes.

The story of the discovery and subsequent court battle and the biography of Dr Douglas Owlsey can be found in the book **NO BONE UNTURNED? THE ADVENTURES OF A TOP SMITHSONIAN FORENSIC SCIENTIST AND THE LEGAL BATTLE FOR AMERICA'S OLDEST SKELTON** by Jeff Benedict. It's an interesting read and Dr Owlsey is originally from Sheridan, Wyoming.











