

MONTANA GEOLOGICAL SOCIETY NEWSLETTER

Vol. 62 No. 8

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Our President announces this year's winner of the Teacher of the Year Award.



P4 / DERL

Learn more about an excellent resource compiled by a dedicated team, as written by the Executive Director.



P5 / RMAG DINNER

Don't miss the Scott W. Tinker dinner coming up on July 26 in Denver - RSVP today!



P6 / MBMG

Mark your calendars for this year's Mining & Mineral Symposium to be held in October.

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mtgeo.org / montanageologicalsociety@gmail.com

Add our email address to your contacts so your Newsletters & Luncheon announcements don't end up in Spam!

Find us on 

PO Box 844
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President's Letter

Membership,

I'd like to congratulate Michael Poser as the recipient of the 2018 MGS Teacher of the Year Award! The yearly award applauds and rewards the hard work of outstanding K-12 Earth Science teachers in Montana. Consideration for selection included teaching philosophy, methods, creative or innovative projects, objectivity, and recommendation from peers and administrators—with emphasis on geologic education and increasing student interest in geology. Mr. Poser comes through in spades.

He teaches 7th-12th grade science at Hobson Public School with over a decade of teaching experience. As the only science teacher of a school of 100 students, his responsibility to his students and rural community is great. His curriculum includes earth and space science, biology, chemistry, physics, and engineering and when possible highlights local and familiar content from our region. Students in his care also engage in the societal, economic, environmental, and ethical issues of energy in the U.S. including holding debates where they must weigh all factors by analyzing evidence and use logical decision-making.

Mr. Poser especially enjoys taking his senior chemistry students through a demonstration of how ancient people discovered and smelted copper using locally-collected malachite with charcoal from campfires. He encourages them to recognize the importance of this reaction to the history of our species as it ushered the end of the Stone Age and beginning of the Bronze Age. Also, by creating scale representations of geologic strata around their school, Mr. Poser encourages his students to investigate the geological history of their region. His “drive as an educator is to provide students with interesting opportunities to ask their own questions.” By guiding them through the scientific method, he helps them find and create ways to answer those questions while encouraging and developing their inquisitive and scientific minds.

In appreciation and recognition for being an inspiration to his peers and a role model for his students and community, Mr. Poser has received \$1,000 as part of the award. He is also now eligible to apply for the regional RMS Teacher of the Year award with other fine teachers in the Rocky Mountain Section. I encourage you to reflect on the hard work of our teachers and thank them whenever you get a chance!

Thanks for reading,

Felipe Pimentel
MGS President

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Officer Elections Coming Soon!
Keep an eye out for your ballot

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The Scope of DERL's Data Collection **Tom Van Arsdale – Executive Director**

The Denver Earth Resources Library is now in its 32nd year of existence, and over those years we have collected unique data of immeasurable value. While introducing new members to the Library I would often state, "We have data here that you will definitely not find anywhere else." However, no one could possibly quantify how much unique data we actually possess. Then, a Denver operator heard of the Library and came in to collect data within a 27 township area of the DJ Basin. The firm had already collected everything they could find from various online sources ... the State, IHS, TGS, MJ Systems, and a couple of other services with which I was unfamiliar. Well, this company found and scanned over 1,200 wireline well logs from our collection that they could not find anywhere else. They also found numerous wireline logs in our fiche collection. Now I have an idea of the true scope of our collection! When one extrapolates that number of logs from a relatively small area of 27 townships to the enormous geographical area we cover, I can now state with a straight face that we probably have tens of thousands of logs that cannot be found anywhere else. And, that's just considering wireline well logs. I have not even mentioned the mud logs, lithologic logs, geologic reports, core sheets, DSTs (with charts), various map collections, completion cards, and old scout tickets, etc., etc. The collection is truly enormous, unique, and of immeasurable value.

R M A G D I N N E R S C O T T W. T I N K E R

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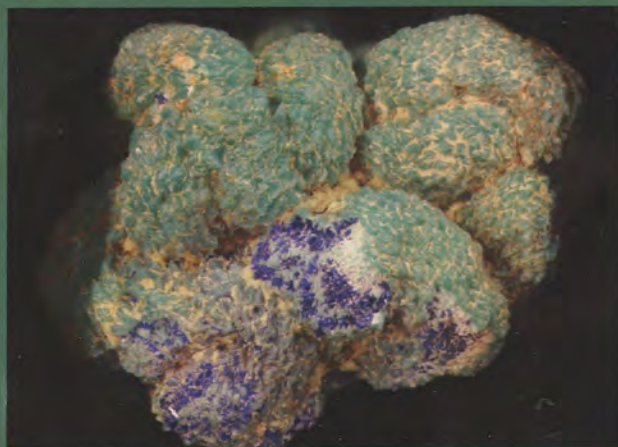
Is Renewable Energy “Good” and Fossil Energy “Bad”

There is a narrative in the US and Western Europe that suggests renewable energy is clean, green and good, and fossil energy is dirty, black and bad. But is any form of energy, at scale, really good or bad, and is that even a useful construct when considering energy? That depends, of course, on what is meant by good and bad. If good means limited emissions at the generation source, then renewables, and nuclear, are good. On the other hand, if good means more land for nature, then the mining, manufacturing, capture and equipment disposal of intermittent, low density renewables and associated backup batteries is not so good. Perhaps good means lifting humans from poverty and maintaining healthy economies to keep the workforce employed and allow for economic investment in the environment. In that case, good is any form of energy that is available, affordable, and reliable, such as coal and oil. But that is changing, slowly. The future energy mix will vary by geopolitical region and be driven by economics, resource availability, politics, technology, and sustainability.

Dr. Scott Tinker's passion—bringing academe, government, industry, and NGOs together to address major societal issues in energy, environment, and the economy—has led him to nearly 60 countries where he has presented 700 keynotes and invited lectures to government, industry, academia, and the public. Dr. Tinker is an AAPG Halbouty Leadership Medalist, GCAGS Boyd Medalist, a Fellow of the Geologic Society of America, and has been broadly awarded by AIPG, AGI, AAPG, and TIPRO for his successful efforts to engage the public in science.



SAVE THE DATE!



4TH ANNUAL MINING AND MINERAL SYMPOSIUM

OCTOBER
10-13, 2018

BUTTE, MONTANA

FOR MORE INFORMATION, SEE OUR WEBSITE:
WWW.MBMG.MTECH.EDU



TALK MINERALS IN BUTTE, MONTANA: THE RICHEST HILL ON EARTH

The 4th Annual Montana Bureau of Mines and Geology Mining and Mineral Symposium will provide a forum where professionals, students, and amateurs interested in mineralogy and economic geology can share knowledge about mineral occurrences in the northern Rocky Mountain Region. The forum includes oral presentations, poster sessions, a student poster competition, and field trips.

The MBMG will formally publish the Symposium Proceedings. If you are interested in submitting an abstract or paper, please contact:

Stanley Korzeb
Economic Geologist
406-496-4171
skorzeb@mtech.edu

Kaleb Scarberry
Geologist
406-496-4743
kscarberry@mtech.edu



Front photo: Chrysocolla pseudomorphs after azurite with some unaltered azurite microcrystals, Leonard mine, Copper Cliff district, Missoula County, Montana. Above: malachite microcrystals from Copperopolis. Photos courtesy of Michael Goble, Aurora, CO.

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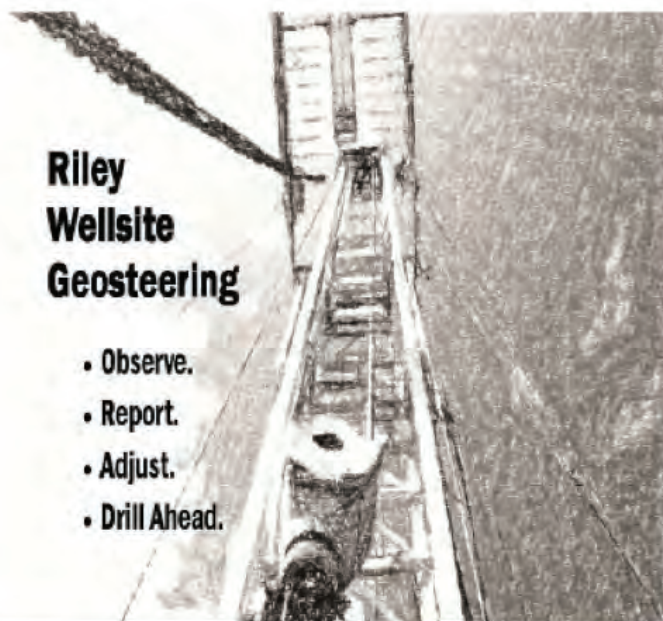
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Junaid Sadeque & Ali Jaffri

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MONTANA GEOLOGICAL SOCIETY

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2006 Montana Oil & Gas Fields CD		\$65.00	
2006 AAPG Datapages - MGS Publications DVD		\$180.00	
2006 AAPG Datapages - MGS Publications DVD (MGS Member price)		\$150.00	
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1999 Thrust Systems of the Helena Salient		\$20.00	
1998 8th Int'l Williston Basin Symposium		\$20.00	
1998 8th Int'l Williston Basin Symposium Core Workshop		\$20.00	
1997 Big Horn Basin Symposium		\$20.00	
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1991 6th International Williston Basin Symposium		\$20.00	
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1991 AAPG - RMS Field Trip: Beartooth Mountains		\$7.50	
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1991 Sequence Stratigraphy of Eagle Sandstone		\$7.50	
1990 Bakken Workshop Short Course Study Notes #1		\$10.00	
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Shipping and Handling charges - \$5.00 per CD/DVD \$8.00 per book			
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