

July 2019



MONTANA GEOLOGICAL SOCIETY NEWSLETTER

Vol 63 No. 8

Inside this Issue:



P2 / PRESIDENT'S LETTER

Our President discusses her recent trip to Teton National Park & its interesting geology.



P4 / AAPG

The MGS is seeking out a new representative for the AAPG House of Delegates-- could our next delegate be you?





P6 / YBRA

Partially sponsored by the MGS, the YBRA Teacher Workshop was a wonderful success. See photos of the event.



P9 / TRGS

Check out last-minute details for the upcoming TRGS Field Conference, taking place this week in Deer Lodge.



***Interested in joining
the MGS Officer Team?
Let us know!***

Contact Us:

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
Billings, MT 59103

President's Letter

Dear Membership,

As summer reaches its zenith, I hope you have been able to enjoy some of its perks. I was fortunate enough to spend a few days in Teton National Park, before the tourists flock there and the temperatures get too hot. I enjoy telling the people I'm with about how these mountains form through extension rather than compression, a thought exercise that initially perplexes but makes sense if you really try to comprehend. This process is what makes the Tetons truly unique from the rest of the Rocky Mountains. It helps set the stage for a deeper appreciation of our surroundings and an understanding that not all mountains are created equal.

I hope that everyone has had an opportunity to visit someplace special to them this summer, and that you were able to share moments of geological appreciation with someone as well.

MGS President
Sarah Friedman

2018-2019 MGS Officers

President	Sarah Friedman	406-896-5931
Vice President/Speaker Coordinator	Tom Hewett	406-281-8203
Treasurer	Spenser Kuhn	406-696-0268
Secretary	Felipe Pimentel	352-514-3607
Past President	Felipe Pimentel	

Are you a consultant seeking work?

One of the many perks of MGS membership is inclusion in the MGS Consultant Directory.

If you'd like to be listed, or edit an existing listing, please contact
montanageologicalsociety@gmail.com
for an application form.

Who's Who of the MGS

BOARD OF DIRECTORS

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Don French
Robert Schalla
Steven W. VanDelinder

AAPG-ROCKY MOUNTAIN SECTION

Delgate: Mark Millard
Alternate: Don French
Foundation: Rob Diedrich 303-830-5875

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Field Trips:
Gary Hughes 861-2072

University Liaison:
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Publications:
Duncan McBane 252-3170

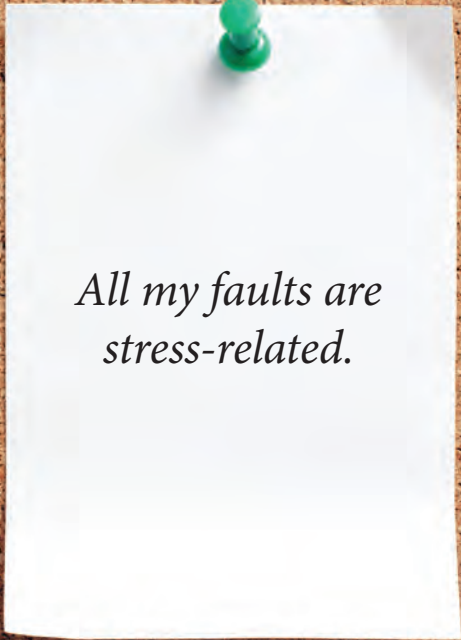
Montana Oil & Gas Fields Update:
Jim Halvorson 656-0040

PUBLICATION SALES

Doretta Brush 259-8790

NEWSLETTER EDITOR

Jessica Renstrom 208-2504



*All my faults are
stress-related.*

Books & Publications Available!

Long-time MGS Member Lawrence Monson has a large geologic library, including many textbooks, bulletins, and publications, available to members free of charge.

If you've been looking for a specific item to add to your collection or wish to inquire about the array of publications available, please contact him at geomon@nemont.net.

Seeking: AAPG Representative



We are in need of a representative to the AAPG House of Delegates for 2019-2022. As the society's sole elected representative, the delegate shall attend the annual meeting at each year's ACE AAPG Conference.

If you're interested in serving as the either the primary or alternative delegate for MGS, please contact montanageologicalsociety@gmail.com



**AAPG ROCKY MOUNTAIN SECTION
ANNUAL MEETING
LITTLE AMERICA HOTEL, CHEYENNE, WYOMING
SEPTEMBER 15-18, 2019**

**REGISTRATION
NOW OPEN!**

Website: <https://rmsaapg2019.com/>

Early Bird Registration (ends July 19)

Professional - \$300
Professional - 1 day - \$150
Guest - \$75

Late Registration (after July 19)

Professional - \$375
Professional - 1 day - \$175
Guest - \$100

Student Registration

Student - \$60
Student also attending Rocky Mtn
Rendezvous - \$20
Valid Student ID and/or proof of registration to
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Registration includes the technical program,
icebreaker, admittance to exhibit hall and
happy hour events.

Photos courtesy of Patrick Amole



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YBRA Teacher Workshop

The MGS is proud to have been a sponsor of this year's YBRA Teacher Workshop, a 3-day excursion developed to provide teachers with additional guidance on teaching local geology in the classroom.

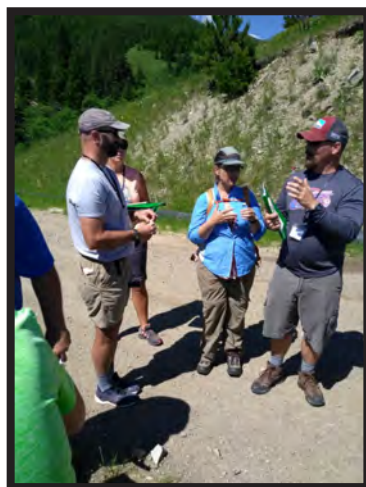
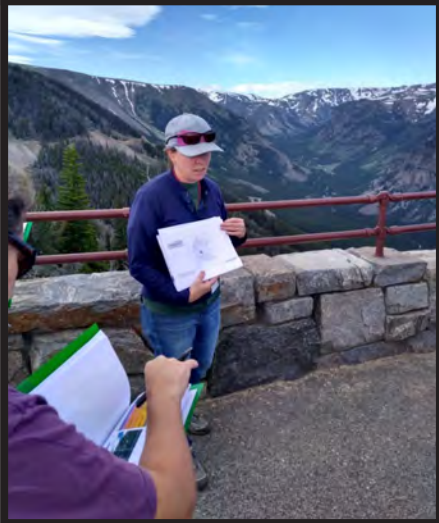
This year's itinerary included:

Day 1: Investigation of Precambrian rocks of the Beartooth Plateau. Interpretation of landforms related to glacial erosion and deposition.

Day 2: Examination of exposed Phanerozoic strata of the Red Lodge area. Interpretation of depositional environments and deformation related to the Laramide Orogeny. Discussion of the mining of important natural resources in the region that resulted from these geologic events.

Day 3: Following an overview presentation of the Next Generation Science Standards (NGSS), participants will work together in the morning to incorporate the examples of local geology from Days 1 and 2 into lesson plans for their classrooms. Workshop will conclude after lunch.





Want to know more?

Check out the Billings Gazette article detailing the workshop here:

https://billingsgazette.com/news/state-and-regional/teachers-dig-deep-to-improve-geology-instruction/article_e6f39eae-5548-5011-9088-92d9c566a73f.html

Do you Love Geology, Pizza, & Helping Your Community?

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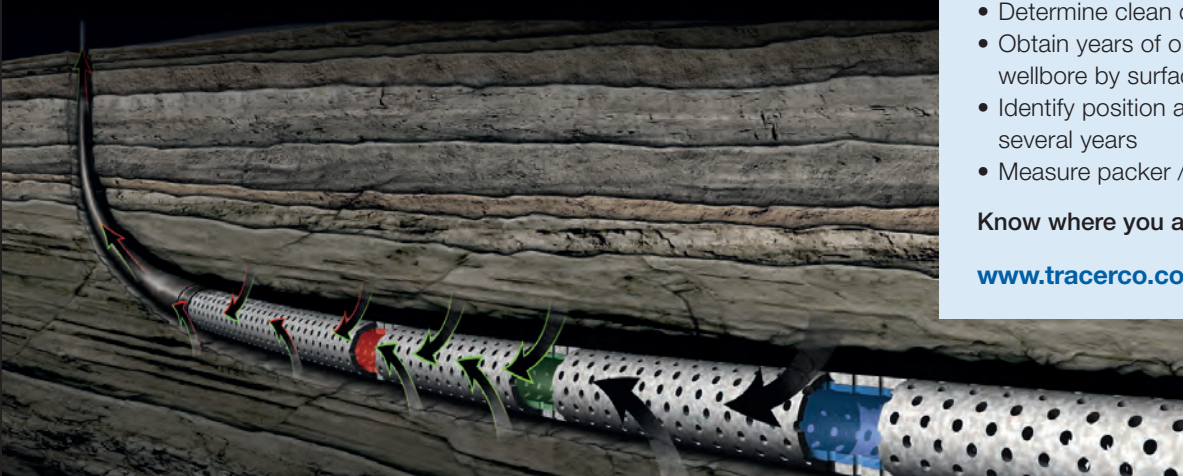
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Tobacco Root Geological Society 44th Annual Field Conference Deer Lodge, Montana, July 25-28, 2019

Deer Lodge is central to the Boulder Batholith and Elkhorn Mountains volcanic field, the Anaconda Metamorphic Core Complex, the Gold Creek placer mines, and the Butte and Anaconda mining districts and their notorious industrial superfund sites. Deer Lodge is also home to the Old Montana Prison and the Grant Kohrs Ranch National Historic Site. It is the ideal base camp for a diversity of geologic field trips and outdoor adventures.

The regional geologic history is rich and varied. Cordilleran folding and thrusting was accompanied by emplacement of the Late Cretaceous Boulder Batholith and Elkhorn Mountains volcanic field. The comagmatic batholith and volcanic field preserve an unusually complete record of Cordilleran continental arc magmatism. Eocene collapse of the fold-thrust belt was marked by caldera-forming eruption of the Lowland Creek volcanic field, extension along low angle detachments, and formation of Anaconda Metamorphic Core Complex. Precious and base metal mineralization—including formation of the Butte Hill copper deposits—accompanied every stage of contraction, collapse, and magmatism.

The region is still seismically active, continuing the basin-and-range-style block faulting that created deep basins in the Deer Lodge, Elk Park, and Whitetail valleys, and lateral transtension in the Lewis and Clark Zone.

Contacts:

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Colleen Elliott, logistics

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(406)496-4143

Want to help with the conference? Contact Sandy Underwood at

SandyUnderwood903@hotmail.com

Petr Yakovlev, logistics

pyakovlev@mtech.edu

Venue:

Powell County High School

709 Missouri Ave, Deer Lodge

MONTANA GEOLOGICAL SOCIETY

P.O. Box 844

Billings, MT 59103

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Degree #2 _____

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2006 AAPG Datapages - MGS Publications DVD		\$180.00	
2006 AAPG Datapages - MGS Publications DVD (MGS Member price)		\$150.00	
2000 50th Anniversary Symposium		\$20.00	
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1997 MGS-TRGS: The Edge of the Crazies		\$20.00	
1997 AAPG - Rocky Mtn. Section Meeting / Abstract Volume		\$10.00	
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1993 Energy and Mineral Resources of Montana		\$20.00	
1991 6th International Williston Basin Symposium		\$20.00	
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1991 AAPG - RMS Field Trip: Beartooth Mountains		\$7.50	
1991 AAPG - RMS Field Trip: Eagle Sandstone, Billings		\$7.50	
1991 RMS Field Trip #1 Nye-Bowler Linemont		\$7.50	
1991 Sequence Stratigraphy of Eagle Sandstone		\$7.50	
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