



MONTANA GEOLOGICAL SOCIETY

NEWSLETTER

Vol 63 No. 11

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Read up on the latest worldwide geologic discoveries found online in ScienceDaily.



P8 / SCHOLARSHIP

The Annual MGS Scholarship application period is now open for the 2019-2020 year.



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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,

I would like to open this letter by congratulating our new leadership. Soon Tom Hewett will take over as President, Spencer Kuhn as Vice President, and Jim Suydam as treasurer. Congratulations on getting to lead the MGS into the future!

For me this is not a goodbye letter, as I leave the President position, I will be taking over as secretary, a role I skipped over when I first joined the MGS. I will still be participating in all the MGS events I can. I still plan on organizing opportunities for the membership. Some of you may even get tired of seeing me around!

MGS President
Sarah Friedman

2018-2019 MGS Officers

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

Save the Date!
Oilies Christmas Party
Friday, December 13



MGS Classifieds

Who's Who of the MGS

BOARD OF DIRECTORS

*Joe Carlisle
Don French
Robert Schalla
Steven W. VanDelinder*

AAPG-ROCKY MOUNTAIN SECTION

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

COMMITTEES

*Awards and Continuing Education:
Felipe Pemintel*

*Field Trips:
Gary Hughes 861-2072*

*University Liaison:
Steven W. VanDelinder*

*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*

*Where do geologists
like to relax?*

In a rocking chair

*Have something geological to sell,
give, or find?*

Place a free ad in our MGS Classifieds!

Contact the Newsletter Editor for more information.

Girls-n-Science

This year's Girls-n-Science event was a huge success!

Overall 600-650 people (around 400 kids) attended the event.

Of those students, 65 girls attended a tour of the Science building at MSU-B, along with a "Taste of STEM" event where the girls dined with eight female scientists, followed by a panel discussion about what it's like to be a STEM professional.

*Thank you to Sarah & Felipe for volunteering at this event,
and all MGS members for your support of our community's students!*





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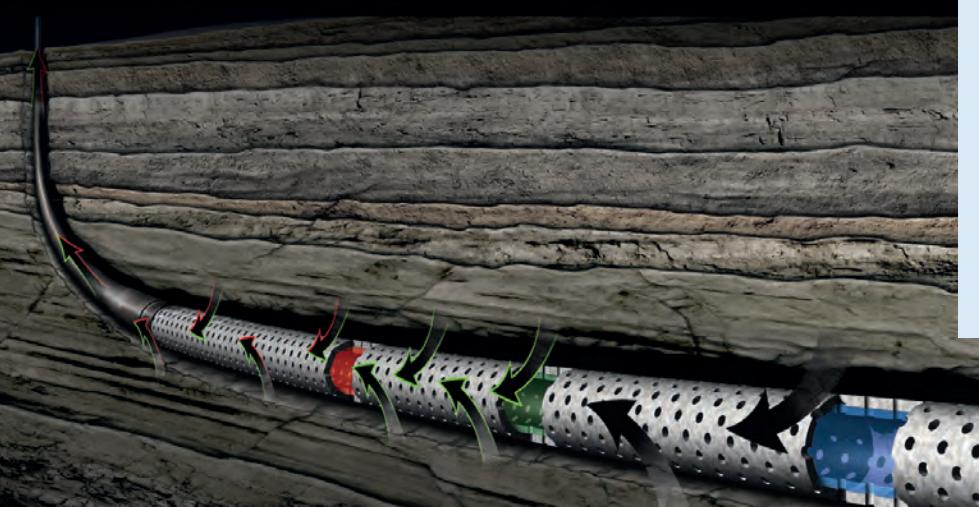
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Geology: In the News

“Mountain streams emit a surprising amount of carbon dioxide”

“For the first time, scientists have measured the total amount of CO₂ emissions from mountain streams worldwide.”

To read the article, please visit:

<https://www.sciencedaily.com/releases/2019/10/191025075414.htm>

“Volcanic ash sparks a new discovery”

“New research finds that volcanic ash modifies the height, width and lifetime of a standing shock wave that can occur during volcanic eruptions”

To read the rest of the article, please visit:

<https://www.sciencedaily.com/releases/2019/10/191021082744.htm>

“What happens under the Yellowstone Volcano?”

“A recent study helps to better explain the processes in the Earth's interior beneath the Yellowstone supervolcano.”

To read the article, please visit:

<https://www.sciencedaily.com/releases/2019/10/191017111720.htm>

“Mars once had salt lakes similar to those on Earth”

“Mars once had salt lakes that are similar to those on Earth and has gone through wet and dry periods.”

To read the article, please visit:

<https://www.sciencedaily.com/releases/2019/10/191018181051.htm>

Interested in placing an ad?

Contact Jessica Renstrom at montanageologicalesociety@gmail.com with your ad, or request pricing to create one for your business or event.

2019 Advertising Rates:

Full Page - \$100/month

Half Page - \$50/month

Quarter Page - \$25/month

Business Card- \$10/month

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Montana Geological Society

PO Box 844 • Billings MT 59103

• E-Mail: montanageologocialsociety@gmail.com

Web: montanags.com

Montana Geological Society 2019-2020 Annual Research Scholarships

Purpose

The Montana Geological Society (MGS) is a non-profit organization created in 1949 "...to promote interest and research in geology and allied sciences and their practical application, and to encourage fellowship and cooperation among the members." This annual award supports these goals by providing financial assistance for up to two student dissertation, thesis, or senior projects involving Montana geology and by providing a venue for students to present their work to geology professionals in Montana.

Award

Up to two scholarships, one for **\$2,000**, and one for **\$1,000**, may be awarded each year to the most qualified applicants. The successful applicants agree to present their research results at a luncheon meeting of the MGS in Billings, MT, and will receive reimbursement for travel expenses to and from Billings in addition to the scholarship amount.

Basis of Award

All projects will be reviewed by a committee composed of Officers and Board Members of the MGS. The award will be made based on project merit, difficulty, and innovation appropriate for the applicant's educational level. Projects in the early to middle stages of research will receive preferential consideration over those at or near completion. The awards will only be made to fully qualified and deserving applicants, if any, as determined by the committee.

Eligibility

Scholarships are available only to full-time students working toward a BA, BS, MS, or Ph. D degree in an accredited geology or earth science program at a Montana college or university. The research area must be based at least partially in the state of Montana.

Application Packet

Applicants must submit 1.) a **brief** cover letter that summarizes the applicant's educational background, current student status (B.S., M.S., Ph. D), anticipated graduation date, and research interests. Include name, mailing address, email address, and phone number, 2.) a **short** (300 words or less), **concise** summary of their approved or proposed project that includes study area, purpose, and applicability of research to Montana geology, along with an advisor's signature, 3.) a work flow timeline, and 4.) an estimated itemized annual budget which specifies how the funds from this award will be used. The budget must include the amount and source of all other project funding.

Deadlines

Applications can be emailed (preferred) or mailed. Emailed applications (as attached file(s) in any standard format) must be sent to montanageologocialsociety@gmail.com no later than 11:59 p.m., **January 31st**. Mailed applications must be post marked no later than **February 1st**, and should be addressed to: Montana Geological Society, PO Box 844, Billings, MT 59103. Awards will be announced and payment made in the form of a check to the successful applicant no later than **April 1st**.

MONTANA GEOLOGICAL SOCIETY
P.O. Box 844 Billings, MT 59103

Membership Renewal

Last Name _____

First Name _____ Middle Initial _____

ANNUAL DUES:

_____ \$20.00 Regular

_____ \$10.00 Student

Please update the information below if needed. Please leave blank if nothing has changed:

Company/Affiliation _____

Mailing Address (work or home)

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E-Mail _____

AAPG Member (please circle) YES NO

Education (School, Degree, Year)

Degree #1 _____

Degree #2 _____

Degree #3 _____

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	
2000 50th Anniversary Symposium		\$20.00	
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	
1997 MGS-TRGS: The Edge of the Crazies		\$20.00	
1997 AAPG - Rocky Mtn. Section Meeting / Abstract Volume		\$10.00	
1996 AAPG - Rocky Mtn. Section Meeting / Abstract Volume		\$10.00	
1993 Energy and Mineral Resources of Montana		\$20.00	
1991 6th International Williston Basin Symposium		\$20.00	
1991 Geology & Horizontal Drilling of the Bakken		\$20.00	
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	
1990 Bakken Workshop Short Course Study Notes #1		\$10.00	
1989 Geologic Resources of Montana		\$20.00	
1986 Geology of the Beartooth Uplift		\$20.00	
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