

CAMPUS REPORT

DATE: June 19, 2018
TO: Board of Regents
FROM: Donald M. Blacketter, Chancellor, Montana Tech
RE: Campus Report for the July 12-13, 2018 Board of Regents Meeting

STUDENT ACHIEVEMENT

- Graduate student Tuan Le presented a poster titled "Fluid Flow Behaviors under Architectural Controls of the Wall Creek Member in the Frontier Formation: Western Powder River Basin, Wyoming" at the AAPG Annual Convention and Exhibition, Salt Lake City, Utah, May, 2018.
- Graduate student Tuan Le presented a paper (SPE Number 190095) titled "Integrated Stratigraphic Controls for Flow Simulation of the Wall Creek Member in the Frontier Formation: Western Powder River Basin, Wyoming" at the SPE Western Regional Conference, Garden Grove, CA, 22-26 April 2018.

FACULTY EFFORTS

- Dr. Suzan Gazioglu of the Program of Statistics taught a day-long, hands-on, Statistics refresher course for the professional and management staff at Hecla Greens Creek Mining Company in Juneau, Alaska (May 2018).
- Dr Courtney Young was invited to Greece to give a talk at Naxos2018 conference on mining sustainability. He received approval and gave a successful talk about ARD Treatment, Slag Recycling, and Tailings Repurposing. It is expected to develop into international collaborations.
- Prof. Todd Hoffman presented a paper (SPE Number 189816) titled "Huff-N-Puff Gas Injection Pilot Projects in the Eagle Ford" at the SPE Canada Unconventional Resources Conference held in Calgary, Alberta, Canada, 13-14 March 2018.
- Prof. Todd Hoffman gave an invited presentation "Enhanced Oil Recovery Pilot Projects," at the Darcy Partners EOR-in-Unconventionals Forum in Houston, TX on March 28, 2018.

Prof. Todd Hoffman presented a paper (SPE Number 190221) titled "Bakken IOR Model for a Pilot Injection Project" at the SPE Improved Oil Recovery Conference held in Tulsa, Oklahoma, USA, 14-18 April 2018.

MONTANA BUREAU OF MINES AND GEOLOGY ACTIVITY

This list covers significant MBMG activities for the 4/26/18 to 6/18/18 period.

- MBMG Director of Earthquake Studies, Michael Stickney, served as a judge for Montana Techxpo at Montana Tech in Butte, Montana on April 26, 2018.
- MBMG Data Systems Manager II, Luke Buckley, presented **Applying User Centered Design Principles to Deliver Surface Water Data to Diverse Audiences** at the Montana TechXpo at Montana Tech in Butte, Montana on April 26, 2018.
- MBMG Hydrogeologist, Shawn Kuzara, presented **The Rolling Rivers Stream Table** at the Poly Drive Elementary School for STEAM night in Billings, Montana on April 27, 2018.

- MBMG Hydrogeologist, Camela Carstarphen presented **Reading Seminar 2** at the Montana Bureau of Mines and Geology Brown Bag Luncheon Series in Butte, Montana on May 1, 2018.
- MBMG Hydrogeologist, Jeremy Crowley, conducted a live phone interview **Drones, Technology, and Industry** with Montana Petroleum Association for their Biennial Publication in Butte, Montana on May 2, 2018.
- MBMG Hydrogeologist, Dan Blythe, presented **Introduction to the Ground Water Information Center (GWIC) Database** at the Conserving Land and Protection Water Continuing Education Course for Real Estate Professionals in Bozeman, Montana on May 2, 2018.
- MBMG Director of Earthquake Studies, Michael Stickney, presented **Seismology: the Study of Earthquakes** to the student body at the Lincoln Public Schools in Lincoln, Montana on May 3, 2018.
- MBMG Director of Earthquake Studies, Michael Stickney, presented **Recent Earthquakes near Lincoln** to citizens at a public meeting held at the Lincoln Public Schools in Lincoln, Montana on May 3, 2018.
- MBMG Director of Earthquake Studies, Michael Stickney, served on a panel at the Biennial Yellowstone Volcano Observatory Coordination Meeting in Gardiner, Montana on May 7, 2018.
- MBMG Hydrogeologist, Dr. Gary Icopini, presented **Berkeley Pit Chemistry** for the Mine Design, Operations and Closure Conference held in Butte, Montana on May 7, 2018.
- MBMG Data Systems Manager II, Luke Buckley, published **Applying User Centered Design Principles To Deliver Surface Water Data To Diverse Audiences** (2018). Graduate Theses & Non-Theses. 155. https://digitalcommons.mtech.edu/grad_rsch/155; Published on May 8, 2018.
- MBMG Hydrogeologist, Jeremy Crowley, presented **MBMG Lidar Priorities** at the Montana Lidar Inventory and Elevation Working Group in Helena, Montana on May 9, 2018.
- MBMG Director of Earthquake Studies, Michael Stickney, is a coauthor on a paper published in Seismological Research Letters, **Seismicity in the Challis, Idaho, Region, January 2014–May 2017: Late Aftershocks of the 1983 Ms 7.3 Borah Peak Earthquake** by Guanning Pang, Keith D. Koper, Michael C. Stickney, James C. Pechmann, Relu Burlacu, Kristine L. Pankow, Suzette Payne, and Harley M. Benz; DOI: <https://doi.org/10.1785/0220180058>; Published on May 09, 2018.
- MBMG and Geologist, Dr. Petr Yakovlov, presented **Southeast Asia** at the Montana Bureau of Mines and Geology Brown Bag Luncheon Series in Butte, Montana on May 15, 2018.
- MBMG Hydrogeologist, Alan English, presented **Earthquakes and Madison Range Faulting** at the U.S. Forest Service 17th Annual Bear Creek Days in Ennis, Montana on May 17, 2018.

- MBMG Geologist, Dr. Colleen Elliott, participated in the Clark Fork Watershed Education Program as the Volunteer Scientist for Upper Clark Fork Basin Field Trip in Deer Lodge, Montana on May 18, 2018.
- MBMG GIS Specialist, Yiwen Li, GIS Manager, Paul Thale and Geologic Cartographer, Susan Smith attended the Digital Mapping Techniques Conference in Lexington, Kentucky on May 20 – 23, 2018.
- MBMG Director and State Geologist, Dr. John Metesh, Hydrogeologist, Todd Myse, and Ground Water Investigations Program Leader, Ginette Abdo, led a field trip in the Gallatin Valley to examine Farmers Canal for the Water Policy Interim Committee in Bozeman, Montana on May 21, 2018.
- MBMG Ground Water Investigations Program Leader, Ginette Abdo, presented **Update on the Ground Water Investigation Program** at the Water Policy Interim Committee Meeting in Bozeman, Montana on May 22, 2018.
- MBMG Director and State Geologist, Dr. John Metesh, presented **Study of Exempt Groundwater Wells** at the Water Policy Interim Committee Meeting in Bozeman, Montana on May 22, 2018.
- The Legislative Council held its meeting on the Montana Tech campus that included “lunch on the rocks” in the Mineral Museum and a tour of the Orphan Boy Mine workings in Butte, Montana, on May 23-24, 2018.
- MBMG Geologist, Dr. Kaleb Scarberry, presented **MBMG State Map Program, What We Do, Where We've Been, Where We Are Going** to the Confederated Salish & Kootenai Tribes in Polson, Montana on May 24, 2018.
- MBMG Chief Analytical Lab Chemist, Jackie Timmer and Accounting Associate III, Sara Lester, participated in the Clark Fork Watershed Education Program held in Butte, Montana on May 24, 2018.
- MBMG GIS Manager, Paul Thale, presented **Digital Mapping Techniques Conference Summary** at the Montana Bureau of Mines and Geology Brown Bag Luncheon Series in Butte, Montana on May 29, 2018.
- MBMG Director and State Geologist, Dr. John Metesh, attended Association of America State Geologist Annual Meeting held in Rehoboth, Delaware on June 3-6, 2018.
- MBMG Hydrogeologist, James Rose, led a workshop for teachers through the Office of Public Instruction in Butte, Montana on June 4, 2018.
- MBMG Hydrogeologist, Camela Carstarphen presented **Censored Data** at the Montana Bureau of Mines and Geology Brown Bag Luncheon Series in Butte, Montana on June 5, 2018.
- MBMG Hydrogeologist, Alan English, attended a Grant Writing Workshop in Laramie, Wyoming on June 6, 2018.

- MBMG Director of Earthquake Studies, Michael Stickney, presented **Recent Montana Earthquakes** at the Lewis and Clark Caverns State Park Friday Evening Speaker Series in Whitehall, Montana on June 8, 2018.
- The Montana Bureau of Mines and Geology released Open-File Report 698: Evaluation of potential high-yield groundwater development in the Gallatin Valley, Gallatin County, Montana by Alan English; Open-File Report 701: Joint publication with the Idaho Geologic Survey, Geologic map of the Lemhi Pass quadrangle, Lemhi County, Idaho, and Beaverhead County, Montana by MBMG Authors Jesse Mosolf, Jeff Lonn and by Idaho Geological Survey Authors Russell Burmester, Loudon Stanford, Reed Lewis, and Kurt Othberg; Open-File Report 702: Water resource sampling in areas of oil and gas development by Elizabeth Meredith and Shawn Kuzara; Open-File Report 703: Three-dimensional hydrostratigraphic model of the subsurface geology, Flathead Valley, Kalispell, Montana by James Rose; Digital Publication 1: Sapphires in Montana by Yiwen Li.