

CAMPUS REPORT

DATE: December 26, 2017
TO: Board of Regents
FROM: Donald M. Blacketter, Chancellor, Montana Tech
RE: Campus Report for the January 11, 2018 Board of Regents Meeting

STUDENT ACHIEVEMENT

- Montana Tech's recently formed and student-led chapter of the National Society of Black Engineers (NSBE) received a top chapter honor at the NSBE Fall Regional Conference in Los Angeles, CA this November for making a huge impact despite being a small chapter. Montana Tech Environmental Engineering graduate student, Arundeeep Taduri, accepted the award on behalf of the Chapter, while also receiving second place for his presentation on Moss Revegetation—his thesis topic. The Chapter at Montana Tech was formed in February 2017 and is the only NSBE chapter in Montana.
- Shanna Law, MS in Geochemistry student in the Laboratory Exploring Geobiochemical Engineering and Natural Dynamics (LEGEND) won best poster at the 2017 MBMG Mining and Mineral Symposium, Oct 11-14 for her poster entitled "Hydrothermal water-rock interactions: From mineralogy to water chemistry". Dr. Cox was her coauthor
- Isaiah Robertson, MS in Geochemistry student in LEGEND has been selected to receive a 2018 Montana Water Center Graduate Research Fellowship for his proposal entitled, "Limitations to Photosynthesis in Silver Bow Creek".

FACULTY EFFORTS

- Dr. Courtney Young was named incoming Chair of the Council of Education & Accreditation & Rahn Award Committee for the Society of Mining, Metallurgy and Exploration (SME). His duties will start at the conclusion of the SME Annual Meeting in February of 2018.
- Under the mentorship of Assistant Professor Dr. Robert Pal, Biological Science an international PhD candidate David Nagy in Hungary (University of Pecs) defended his dissertation with a Summa Cum Laude result.
- Natalie Deringer, an MS Student in Metallurgical and Materials Engineering, presented a poster and a paper at American Exploration and Mining Association entitled "Pyroprocessing of Copper Smelter Slag into Reusable Products" and won third place in the student poster competition. She will update and present the poster again at the SME Annual Meeting in February of 2018. She is a student of Dr. Courtney Young and Dr. Avimanyu Das.
- Dr. Robert Pal, Assistant Professor of the Biological Science was a co-author in an oral presentation (Invasion potential of the higher ploidy level geo-cytotype, *Solidago gigantea* to the native, Hungarian flora), delivered at the 14th International Conference of Ecology and Management of Alien Plant Invasions in Lisboa, Portugal. A Montana Tech graduate Student

Mark Mariano was also among the authors (authors: David U. Nagy, Szilvia Stranczinger, Aliz Godi, Anett Weisz, Christoph Rosche, Jan Suda, Mark Mariano, Ivett Polai, Robert W Pal).

- John Hansen-Carlson, a Senior Student in Metallurgical and Materials Engineering, was named SME Young Leader and will inducted into the Young Leaders Committee Class of 2018 during the SME Annual Meeting in February of 2018. He will serve on the committee for 4 years.
- Dr. Robert Pal, Assistant Professor, Biological Science received a small grant from Barrick Golden Sunlight Mine. The funds are for Enhancing Restoration Success with Native Shrubs and Trees at Barrick Golden Sunlight Mine. The project receives an award of US\$ 4,000.
- Dr. Alysia Cox, Assistant Professor of the Laboratory Exploring Geobiochemical Engineering and Natural Dynamics (LEGEND) in the Department of Chemistry and Geochemistry co-published an editorial entitled “Deep Carbon in Earth: Early Career Scientist Contributions to the Deep Carbon Observatory” and was a co-editor for the ebook in *Frontiers in Earth Science*, *Frontiers in Chemistry*, *Frontiers in Microbiology*, and *Frontiers in Environmental Science*.

CAMPUS KUDOS

- Trisha Southergill, Research Office and Graduate School, recently received her Certified Research Administrator recertification from the Research Administrators Certification Council. Trishia is the only CRA on campus.

MONTANA BUREAU OF MINES AND GEOLOGY ACTIVITY

- LaFave, J., 2017, Montana in the National Ground-Water Monitoring Network: Presented at the NGWA Groundwater Summit and Groundwater Week Groundwater Monitoring Session, Nashville, Tennessee, December 4, 2017.
- McDonald, C., 2017, Unraveling the Late Proterozoic-Cambrian Transition in the Pioneer Mountains, Southwest Montana: Presented at the Montana Tech Public Lecture Series, NRB-127, Butte, Montana, December 7, 2017.
- Meredith, E., and Kuzara, S., 2017, Irrigation and Groundwater: How Irrigation Supports Recharge and Interacts with the Quality of Groundwater: Presented at the Musselshell Water User Coalition, Roundup, Montana, December 12, 2017
- Metesh, J., 2017, Evaluation of Canal Efficiency and Management of the Farmers Canal, Gallatin County, Montana: Presented at the Association of Gallatin Agricultural Irrigators Annual Membership Meeting, Manhattan, Montana, December 6, 2017.
- Michalek, T., 2017, Gallatin Valley Groundwater-Agriculture Connection: Implications for Changing Irrigation and Land Use in a High-Growth Basin: Presented at the World Bank's Water In Agriculture Global Solutions Group 8th Seminar Water in Agriculture Innovation Series, Washington, DC, December 14, 2017.

- Scarberry, K.C., 2017, Eocene Ignimbrite Flare-Up in the Northeastern U.S. Cordillera: Timing and Style of Volcanism in the Lowland Creek Volcanic Field of Southwestern Montana: Presented at the 2017 GSA Annual Meeting, Seattle, Washington, October 25, 2017.
- Stickney, M.C. and Hartline, F., 2017, Shaking It Up: Earthquake Party: Presented at the Science Mine Dig into Science, Butte, Montana, November 1, 2017.
- Stickney, M.C., 2017, Shake, Rattle and Roll: Presented at Great Conversations held by Helena Education Foundation, Helena, Montana, November 15, 2017.
- Duaiame, T.E, and Icopini, G.A., 2017, Anaconda Smelter NPL Site Anaconda Regional Water, Waste, and Soils Operable Unit--2012 Groundwater Monitoring Program: Montana Bureau of Mines and Geology Open-File Report 639, 180 p., 3 sheets.
- Duaiame, T.E., and Icopini, G.A., 2017, Anaconda Smelter NPL Site Anaconda Regional Water, Waste, and Soils Operable Unit--2010 Groundwater Monitoring Program: Montana Bureau of Mines and Geology Open-File Report 644, 150 p., 3 sheets.
- Duaiame, T.E., and Icopini, G.A., 2017, Anaconda Smelter NPL Site Anaconda Regional Water, Waste, and Soils Operable Unit--2013 Groundwater Monitoring Program: Montana Bureau of Mines and Geology Open-File Report 653, 212 p.
- Duaiame, T.E., and Icopini,G.A., 2017, Anaconda Smelter NPL Site Anaconda Regional Water, Waste, and Soils Operable Unit--2014 Groundwater Monitoring Program 5-year Review (2010-2014)--Sampling Update: Montana Bureau of Mines and Geology Open-File Report 659, 348 p., 3 sheets.
- Duaiame, T.E., and Icopini,G.A., 2017, Anaconda Smelter NPL Site Anaconda Regional Water, Waste, and Soils Operable Unit--2014 Groundwater Monitoring Program 5-year Review (2010-2014)--Sampling Update: Montana Bureau of Mines and Geology Open-File Report 659, 348 p., 3 sheets.