

## CAMPUS REPORT

**DATE:** May 5, 2011  
**TO:** Board of Regents  
**FROM:** W. Franklin Gilmore, Chancellor, Montana Tech of The University of Montana  
**RE:** Campus Report for the May 19-20, 2011 Board of Regents' Meeting

- Mathematical Sciences faculty Waleed Al-Rawashdeh presented at the 27th South Eastern Analysis Meeting in Gainesville, Florida, March 17-19, 2011. The presentation title was "Hilbert-Schmidt Difference of Composition Operators on Hardy Space." Dr. Al-Rawashdeh also presented and chaired an AMS session on "Operator Theory" at the Joint Mathematics Meetings in New Orleans, LA, on January 6-9, 2011. The presentation title was "Schatten p-class Weighted Composition Operators on Bergman Spaces of the Unit Ball."
- Electrical Engineering Professor and Department Head Dan Trudnowski was named "Butte Area Engineer of the Year" for 2010 as awarded by the Institute of Electrical and Electronic Engineers and the Montana Society of Professional Engineers.
- The Electrical Engineering Department's "Power-Systems Measurement Based Stability Assessment" research grant was renewed for another year at a level of \$125,000.
- Mr. Sean Dudley, who will graduate next week with his M.S. degree in Metallurgical and Mineral Processing Engineering, is presenting his thesis results at the Coal Prep Exhibition & Conference 2011 in Lexington Kentucky (May 2, 2011 through May 5, 2011). The title of his presentation is: ISSUES RELATED TO MONTANA COAL DEVELOPMENT.
- Dr. Pat Munday, Professor of Science & Technology Studies with the Technical Communication program, has been selected for a Fulbright Award in the People's Republic of China for the Spring 2012 semester. Pat will be at Xiamen University teaching environmental history and performing a social/environmental study of the Fujian Zijin mine and smelter in Shanghang—a Superfund-like site similar to the Butte-Anaconda area.
- Seven students from the Chemistry & Geochemistry Department recently attended the 241<sup>st</sup> American Chemical Society National Conference in Anaheim, CA. Poster presentations were given by four of the students and their mentors on their research, "Examination of the use of room temperature ionic liquids and calixarenes for the removal of sodium ions from coal or coal waste waters" by Andrew Bender, Josiah Norby, and Douglas Cameron; and "Analysis of *Chromulina frieburgensis* lipids and saccharides for potential use as biofuels" by Amanda Mondloch, Dannielle Hall, Douglas Cameron and Grant Mitman.
- Two students from the Chemistry & Geochemistry Department recently attended the national 2011 Materials Research Society Spring Meeting and gave poster presentations on the research "Multifunctional nanoapatite particles as potential materials for nano-enhanced applications," by Collette Chorney, Margaret Davis, Rajendra Kasinath, and Michael Klem; and "Citrate Mediated Metal-doped Nanoapatites for Fluorescent, Semiconducting, and Magnetic Applications," by Margaret Davis, Collette Chorney, Rajendra Kasinath, Michael Klem, and Katie Hailer.
- Undergraduate Collette Chorney and her mentor Dr. Michael Klem have recently published a peer reviewed article on their research: Pool, V.L.; Klem, M.T.; Chorney, C.L.; Arenholz, E.A.; Idzerda, Y.U. "Enhanced magnetism of Fe<sub>3</sub>O<sub>4</sub> nanoparticles with Ga doping," J. App. Phys, 2011, 109, 07B529.
- Mary North-Abbott, Petroleum Engineering Faculty & SWE advisor and undergraduate engineering majors Scyller Borglum (Petroleum Engineering), Morgan Bosch (Environmental Engineering), Courtney Greyn (Environmental Engineering), Lindsay Kilmer (Mechanical Engineering), Heather Kolberg (Geological Engineering), Kallen Konen (Metallurgical Engineering), Poppy Krause (Geological Engineering), Ashley Pedersen (Petroleum Engineering), Mary Elise Peterson (Electrical Engineering), Allyson Reamy (Petroleum & Geological Engineering), and Brittany Rooney (Petroleum Engineering) attended the Society of Women Engineers Section J Conference in Corvallis, Oregon, in April, 2011.
- Larry Twidwell, Professor Emeritus of Metallurgical Engineering, is the recipient of the 2011 EPD Extraction and Processing Division Distinguished Lecture Award, which recognizes an eminent individual in the field of the extraction and processing of nonferrous metals with an invitation to present

a comprehensive lecture at the TMS Annual Meeting. Larry spoke on “The Removal of Arsenic, Selenium and Metals From Aqueous Solution by Iron Precipitation and Reduction Techniques.”

- The Air & Waste Management Association (A&WMA) will present Dr. Kumar Ganesan, head of the Environmental Engineering Department at Montana Tech of The University of Montana, with the 2011 Lyman A. Ripperton Environmental Educator Award at their annual international conference in June. The Lyman A. Ripperton Environmental Educator Award is presented to an individual who has inspired students to achieve excellence in their professional and social endeavors.
- Montana Tech celebrated National Student Employment week during the second full week of April and Career Services held a Student Employee of the Year recognition ceremony. The event honored Montana Tech students nominated by their on-campus employers. The student employees of the year were Robert "Nick" Gow and Jessica Mazzone.
- Carpentry Student Jarrod Haas, COT Faculty Bill Ryan, and the Habitat for Humanity of Southwest Montana each won awards from Montana Campus Corps, the Montana Tech chapter of AmeriCorps/VISTA. The awards were presented at the 2nd Annual Service Learning Awards luncheon on Wednesday, April 20th by Ashley Makowski of Tech's AmeriCorps VISTA Program.
- The Montana Tech student chapter of the American Society of Mechanical Engineers (ASME) placed second at the 2011 Student Design Competition, “H2Go: The Untapped Energy Source.” The ASME Student Design Competition provides a platform for ASME student members to present their solutions to a range of design problems—from everyday household tasks to groundbreaking space exploration. Each team is required to design, construct, and operate a prototype meeting the requirements of an annually determined problem statement. The conference and competition was held on April 15-16 in Cheney, WA on the campus of Eastern Washington University.
- Montana Tech presented three Distinguished Researcher Awards honoring faculty researchers who have made outstanding contributions to research and scholarly activity. John LaFave in the Montana Bureau of Mines and Geology works closely with the public on the complex issue of the water-human interface, while assuming responsibility for the Bureau's monitoring efforts in the Yellowstone area. Dr. Martha Apple examined the effects of global climate change on plants as part of the Global Research Initiative in Alpine Environments (GLORIA) and is a member of the team working on carbon sequestration effects at MSU's Zero Emissions Research Technology site (ZERT). Dr. Bob Ziegler received a lifetime distinguished researcher award for his scholarly contributions to late 19<sup>th</sup> century French Literature. He has over 100 publications including four books, and is working on a fifth book titled “*Satanism, Magic, and Mysticism in Fin de Siècle France.*”
- Dr. Larry Twidwell, Professor Emeritus of Metallurgical & Materials Engineering, was honored at the Annual Meeting of the Minerals Metals and Material Society (TMS) in San Diego with the 2011 Extraction & Processing Division (EPD) Distinguished Lecturer Award. He received the award during the EPD Luncheon on Tuesday and gave a presentation to open a session on environmental research. Dr. Twidwell is recognized around the world for his work on toxic metal remediation particularly arsenic contamination in water. His presentation was entitled “*The Removal of Arsenic, Selenium and Metals From Aqueous Solution by Iron Precipitation and Reduction Techniques*” and was well received.
- Dr. Courtney Young, Department Head and Prater Distinguished Professor of Metallurgical & Materials Engineering, was elected chair of the Executive Board of the Mineral & Metallurgical Processing Division (MPD) of the Society of Mining Metallurgy and Exploration (SME). This past year, he was MPD Program Chair and helped organize 12 sessions for the Roe-Hoan Yoon Symposium and associated proceedings, and reorganized the MPD Awards into a Plenary Session.
- Katherine McElroy, Montana Tech IMS Graduate student and Murdock Charitable Trust Partner in Science with Montana Tech biology faculty Dr. Marisa Pedulla, wrote a successful proposal for supplemental funds for \$7,000 for Anaconda High School Biology equipment and supplies.