

MoNTaNa TeCH

Chemistry & Geochemistry Newsletter



Summer 2007 Montana Tech	
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"These Times They are a Changin" – Bob Dylan

In case you haven't seen it, Montana Tech has a new Tag Line, "Get Into It!" This is only one of the many changes that have occurred here in the last two years. Some of the changes have led to the delay in our annual newsletter. So, this is a "catch-up" report on the previous two years (05/06 and 06/07).

During the summer of 2005, Tech's Administration determined it was time to

have full-time Deans. So, Doug Coe, who had been serving as Dean of the College of Mathematics and Sciences and Department Head of Chemistry & Geochemistry, became the full-time Dean of the College. Doug Cameron was chosen as the new Department Head in Chemistry; however, he was also serving as Department Head and sole academic advisor for the relatively new Health Care Informatics Department (HCI). Fortunately, permanent tenure-track faculty and a new department head have been hired and are in place for the HCI Department. Through these transitions, the Newsletter was, unfortunately, placed way down on the priority list.

Other changes have also taken place, Susan Patton, Vice Chancellor for Academic Affairs and Research, left to taken over her families farm and Tech's own, Doug Abbott, was chosen to be the new VCAA/R. This led to a reorganization of the colleges on campus. The College of Mathematics and Sciences was combined with the College of Humanities, Social Science, & Information Technology. Doug Coe is the Dean of the new College of Letters, Sciences, and Professional Studies (LSPS). If you are so inclined, you might write or call Doug and wish him well with his new duties. You might also check on his sanity! Doug

Coe has relocated to the Museum Building, rm 305.

Ms. Celeste Callaghan has been coordinating the General Chemistry labs and TA's and giving the lab lectures the past two years. Celeste's position is listed as temporary; however, it is our hope that we will be able to make the position permanent within the next few years. Steve Parker is still listed "officially" as the Lab Director in the Chemistry & Geochemistry Department; however, Steve has taken over our low-temperature aqueous geochemistry courses and is actively involved in teaching General Chemistry and working with students in his research program.

Faculty Updates

Andrea and Don Stierle continue to be active in the classroom and the laboratory. With research funding from the U.S. Geological Survey and the National Institute of Health, Don and Andrea's research group continues to extract and culture microbes that live in the Berkeley Pit water. Then they extract and identify compounds that have anti "activity", i.e. anticancer, antifungal, antibacterial, etc. (Personally, I am holding out for the microbe that produces antigravity compounds.) Their work has captured national attention in the scientific community and from the popular press. They were interviewed by Bill Redeker of ABC News and featured in a segment of "World News With Charles Gibson". Their work showed up on the Internet in "News of the Weird", December 17, 2006, WEIRDNUZ.984 by Chuck Shepherd under "Unintended

Consequences." Use the following address to access the news brief. <http://groups.google.com/group/NewsoftheWeird/topics?start=30&sa=N>. And, they interviewed for Comedy Centrals, The Daily Show with Jon Stewart. This video features a few people from Butte and is really quite funny to watch. Use the following address and instructions. http://www.comedycentral.com/shows/the_daily_show/index.jhtml in the Search box type "Berkeley Pit" the video feature is titled "Bad Pit." This past spring semester, Andrea developed and taught the first Biochemistry Lab at Tech. Don has continued to teach organic and biochemistry.

- 1) Andrea Stierle and Donald Stierle. *Bioprospecting in the Berkeley Pit: Bioactive Metabolites from Acid Mine Waste Extremophiles*. In: "Bioactive Natural Products", Volume 32, Atta-Ur-Rahman, Ed.; Elsevier Science Publishers: Amsterdam. 2005.
- 2) A. Stierle, D. Stierle, and K. Kelley, 2006. *Berkelic Acid, A Novel Spiroketal with Highly Specific Anti-tumor Activity from an Acid-Mine Waste Fungal Extremophile*. 2006. *J. Org. Chem.* **71**: 5357-5360.
- 3) Andrea Stierle, 2006. *Bioprospecting in the Berkeley Pit: The Search for Valuable Natural Products from a Most Unnatural World*. *Montana, The Magazine of Western History*. **56 (4)**: 71.
- 4) Andrea Stierle, 2006, in *Motherlode: Legacies of Women's Lives and Labors in Butte, Montana* (Clark Press, Finn and Crain, Eds.)

Steve Parker was awarded a Ph.D. in Chemistry in August 2005 and was promoted to Associate Professor in

the spring of 2006. Steve's research is in the area of environmental geochemistry and focuses on the mechanisms controlling the diel (24-h) changes in the concentrations of chemical species in rivers. He has investigated rivers on three continents as well as at a number of locations in Montana. The work has had two general areas of focus: 1) acidic river systems impacted by mining activities or geogenic sources and the transport of metals and metalloids by those systems, and 2) alkaline river systems with high biological productivity that have had a history of mining or industrial related contamination. Steve has published 6 research papers since the fall of 2005, see below. Steve has been teaching our water chemistry, geochemical modeling, and general chemistry. This past year he took the water chemistry students to Yellowstone Park for a weekend of exploring and learning and I think a lot of fun.

- 1) Parker, S. R., Gammons, C. H., Jones, C.A., 2007. Role of hydrous iron oxide formation in attenuation and diel cycling of dissolved trace metals in a stream affected by acid rock drainage, *Water, Air & Soil Pollution.*, 181, 247-2663.
- 2) Gammons, C. H., Grant, T. M., Nimick, D.A., Parker, S.R., DeGrandpre, M. D., 2007. Diel changes in water chemistry in an arsenic-rich stream and treatment-pond system. *Science of the Total Environment*. doi:10.1016/j.scitotenv.2007.06.029.
- 3) Parker, S. R., Gammons, C. H., Poulson, S. R., DeGrandpre, M. D., 2007. Diel changes in pH, dissolved oxygen, nutrients, trace elements, and the isotopic composition of dissolved inorganic carbon in the upper Clark Fork River, Montana, USA. *Applied Geochemistry*. 22, 1329-1343.

- 4) Nimick, D.A., McCleskey, R. B., Gammons, C.H., Cleasby, T.H., Parker, S.R., 2007. Diel Mercury-Concentration Cycles in Streams Affected by Mining and Geothermal Discharge. *Science of the Total Environment*. 373(1), 344-355.
- 5) Wood S. A., Gammons C. H., Parker S. R., 2006. The behavior of REE in naturally and anthropogenically acidified waters. *Journal of Alloys and Compounds* 418, 161-165.
- 6) Parker, S. R., Poulson, S. R., Gammons, C. H., 2005. Biogeochemical Controls on Diel Cycling of Stable Isotopes of Dissolved O₂ and Dissolved Inorganic Carbon in the Big Hole River, Montana, *Environmental Science and Technology*, 39(18), 7134-7140.

Wilma Immonen continues to be the glue that holds things together for the Chemistry, Biology and Health Care Informatics Departments and now the Dean. As always, she is a major resource for students and always provides them with a sympathetic ear. She maintains our Websites and the hall of fame photos for our graduates. Unfortunately, the pictures only go back to the Class of 1992. (For you earlier graduates, you are not forgotten. However, since some of our memories are failing and some of us didn't have the pleasure of meeting you, please send in a photo of yourself from near the time you left Tech. We would like to develop a picture collage of our former students.) Wilma is also the Departmental and Building leader for the number of grandchildren. She and Bill now have seven grandchildren.

David Hobbs continues with his modeling career; no, not on the runway or in magazines but on his computers. David has built an

Access Grid Node that is housed in the CBB (Chemistry and Biology Building) Conference Room. The access grid node delivers high performance synchronized audio, data, and video to and from multiple locations over IP networks. This allows geographically dispersed groups of people to participate in meetings, and collaborative work sessions. Along with former chemistry student, Dan Cleary (who is now pursuing an MD/Ph.D. at Oregon Health Science Center), he has assembled a 28-processor Linux cluster that was clocked at 57 gigaflops and is the 2nd fastest system in the Montana University System. This system currently is being utilized by several researchers at Tech and UM/Missoula.

Montana's governor, the Hon. Brian Schweitzer, has been a strong advocate for locating a super-computer at Montana Tech. David, along with Rick Donovan in General Engineering and in collaboration with IBM and the Governor's Office of Economic Development, is funded through the State of Montana's Information Technology and Services Division to develop and implement a comprehensive plan for future cyberinfrastructure (i.e. high-performance computing and networks) in Montana.

Doug Drew remains the venerable General Chemistry Professor in the Department. Doug continues to teach the off-semester sequence of General Chemistry, the introductory courses in chemistry and his courses in Advanced Inorganic. Doug and Ann now have three grandchildren.

Ann recently retired as the head librarian from the Butte-Silver Bow Public Library.

Doug Coe as mentioned previously has become a full-time Dean; however, he still teaches Physical Chemistry for us. One of Doug's new duties is fund raising. He and Annette Kankelborg and Amy Verlanic from Technical Outreach received a \$487,000 grant from the National Science Foundation's STEM program. A second Montana Minds scholarship grant was just funded by NSF for \$593,000. The Montana Minds Scholarship is designed to prepare and educate students for successful careers in science, technology, engineering, and mathematics. These scholarship programs will provide up to \$6,000 and \$6,500 per year, respectively. This fall (2007) is the first year of the program and there are 21 scholarship recipients. The scholarship program has special features to help ensure the success of the such as: learning communities, individual faculty advising, college success course, all expense paid trips to national conferences, student tutors/mentors, trips to national science & engineering laboratories, and undergraduate research. Chemistry has four entering students that are receiving the Montana Minds Scholarship. Doug continues to make trips to the Boise, ID area to visit his granddaughter.

Doug Cameron has served as Department Head in Chemistry since the summer of 2005. His direct involvement with the Health Care Informatics Department ended this

summer with the successful hiring of the second tenure-track faculty member in the HCI Department. Doug continues as the Pre-Professional Health (PPH) advisor on Tech's campus and the instructor for all of the PPH classes. Tech has moved from having one student matriculate into a professional health school every few years to averaging four students per year for the last five years that go off to medical, dental, chiropractic, pharmacy, veterinary, etc. schools. Doug is also serving as the committee chairman for the nascent Honors Program at Montana Tech. The pilot class of freshman students will start in the unofficial Honors Program starting this fall. We are currently working on the approval process that goes through the Board of Regents. If all goes well, the program will be approved early in 2008. Doug continues to teach the Analytical Chemistry courses and labs. With all of the "extra" duties, he has had little time in the lab during the last two years; however, he managed to get one paper out in 2006 and an old report through editing in 2007. Doug and Marilyn have three grandchildren now.

- 1) Cameron, D.; Willett, M.; Hieb, A., "Berkeley Pit Lake - Organic Carbon Remediation Potential," Mine Waste Technology Program Activity IV, Project 16, Interagency Agreement between the Department of Energy and the U. S. Environmental Protection Agency, DE-AC22-88ID12735, Butte, MT, March 2007.

- 2) Cameron, D.; Willett, M.; Hammer, L., "Distribution of Organic Carbon in the Berkeley Pit Lake, Butte, Montana," Mine Water and the Environment, 2006, 25(2), 93-99.

Celeste Callaghan is the newest "addition" to the Chemistry & Geochemistry Department. Celeste has a B.S. in microbiology from MSU, She is also a Board Certified Medical Technologist (MT-ASCP); completing her internship at the University of Arizona. Celeste has ten years industry experience prior to entering the teaching field. She taught high school chemistry and biology in Boulder for several years, and worked in Don and Andrea's lab for a couple of years. Celeste has been supervising the undergraduate and graduate TA's for General Chemistry and giving the lab lectures the past two years. We hope that eventually her position will be made full time and permanent. Celeste has been modifying the Health Chemistry lab this past year and working with Doug Drew to coordinate the necessary course material in the Introduction to General Chemistry to match the needed in the lab.

Recent Graduates

2005



Brady Dykema (B.S. May 2005) is a Ph.D. graduate student in the Chemistry

Department at Texas A&M University. Brady did his undergraduate research with Doug Coe on Quantitative Structural Property Relationships for Polychlorinated Biphenyls.



Krista Hanson (B.S. May 2005) had a stint working in the mining industry in Wyoming after graduation. Krista is now working for the Montana Department of Natural Resources in the area of water rights. Krista did her undergraduate research with Doug Coe on “Predicting Equilibrium Vapor Pressures Using the Maxwell Equal Area Construction.”



Amber Roesler (M.S. May 2005) received her B.S. in Chemistry at Tech in 2003. Her graduate research was done with Chris Gammons (Geological Engineering). Amber’s thesis is titled, “Geochemistry, Microbiology, and Isotopic Composition of the West Camp Flooded Mine Waters, Butte, MT.” Amber is currently employed as an Environmental Scientist for GeoEngineers, Inc.



Nick Tucci (M.S. May 2005) did his graduate work with Grant Mitman (Biological Sciences). Nick’s thesis is titled, “Algal Bioremediation of the Berkeley Pit Lake System, Butte, MT: An In-Situ Experiment Using Limnocorrals.” Nick is working with the Montana Bureau of Mines and Geology as an Assistant Research Hydrogeologist/Professional Scientist.

2006



Janice Rader Lucon (B.S. May 2006) also completed her B.S. in Environmental Engineering in May 06. Janice was a member of the award winning Environmental Design Team, was a tutor in The Learning Center, and did undergraduate research with Don and Andrea Stierle. Janice continued working with the Stierles after graduation and will be entering the Ph.D. program in Molecular Biosciences at Montana State University this fall. Janice married Peter Lucon (B.S. General Engineering December 04) in December 2005.



Phillip Teintze (B.S. May 2006) also completed his B.S. in Metallurgical and Materials Engineering in May 06. In August of 06, Phil completed his M.S. Met. Eng. His thesis is titled, "Nano Polysilicon Nucleation". Phil married Breanna Liesch (B.S. Nursing May 2006) in August of 2005 and they are expecting their first child this November. Phil is employed with Ash Grove Cement Co.



Tracy Grant (M.S. May 2006) did her graduate work with Chris Gammons (Geological Engineering). Tracy's thesis is titled, "Hydrogeochemistry of Arsenic and Trace Metals in Lower Silver Bow Creek Below Warm Springs Ponds, Montana." Tracy is working part-time in labs at the University of Idaho (Moscow) and the University of Washington (Pullman). Tracy married Steve Dent (B.S. (2003) M.S.(2005) Environmental Engineering) this past spring. Steve is a Ph.D. graduate student in Environmental Engineering at WSU.

2007



Michalee Moen will start the Ph.D. program in Integrative Microbiology and Biochemistry at the University of Montana this fall. Michalee transferred to Montana Tech from Flathead Valley Community College in the fall of 2005. Michalee was one of the first students in our new Biochemistry Option. She served as the Chemistry Club president this past year and did undergraduate research with Andrea and Don Stierle. Her undergraduate research was on Drug Discovery in Acid Mine Waste: Searching for Unique Secondary Metabolites from the Berkeley Pit Microbe BP 2-0-A Cu500G3



Ken Bates (B.S. 2007) is working for a local business while his wife (Elizabeth) is completing her degree in Health Care Informatics. Ken was an undergraduate TA for two years and worked on research with Steve Parker. Ken's research dealt with Transition Metal Biosequestration in Natural Waters.

Tim Bugni (2006) and Dale Palke (2005) Honored at Alumni Recognition Banquets

Tim Bugni received his bachelor of science degree in Chemistry from Montana Tech in 1995 and his Ph.D in Medicinal Chemistry from the University of Utah in 2003. From 2003-2004, Tim did his Postdoctoral Fellow at the Scripps Institution of Oceanography at the University of California, San Diego under the guidance of Professor William H. Fenical.

Currently Tim is a Research Assistance Professor in the Department of Medicinal Chemistry at the University of Utah in Salt Lake City, UT. The overall goal of his current research program is to discover and develop anticancer agents from unique marine organisms. The discovery is based on identifying natural products that selectively target pathways that are over expressed or selectively expressed in tumors. This research should lead to antitumor agents with increased efficacy and low toxicity.

Tim is the 2002 Recipient of an American Society of Pharmacognosy Lynn Brady Student Travel Award and 2000 recipient of NIH Biological Chemistry Training Fellowship. Tim has been extensively published and is currently a member of the American Society of Pharmacognosy.

Dale Palke holds a Ph.D. in Chemistry from Texas A&M University, Master's degree in Geochemistry from Montana Tech (class of 1985), and a Bachelor's degree in Chemistry also from Montana Tech (class of 1982).

Dr. Palke began his career at DOW Chemical in 1989 as a Research Chemist in the Hydrocarbons Research Department. In 1991 he joined Allied Signal where his activities were focused on identifying, developing, and commercializing pollution abatement catalysts for industrial stationary-source applications. After the industrial catalyst business was sold Dale assumed responsibility for the company's motorcycle and small-engine catalyst programs. When the company transitioned to Delphi Catalysts, he was promoted to Spark Ignition Technology Team Leader, in charge of the group responsible for developing three-way catalysts, while still acting as lead scientist for the small-engine group. After spending a short period of time as acting Chief Scientist in 2003 he accepted the assignment on a permanent basis in January of 2004. The additional responsibility of Technical Center Director was assumed in August of 2004. The combination of Chief Scientist and Technical Center Director positions gives Dale responsibility for the development, introduction, and implementation of new emission control products and production processes in support of the global catalyst business needs.

Previous Montana Tech Alumni recognized by the Chemistry and Geochemistry Department include:

2006 Tim Bugni
2005 Dale Palke
2004 Don McBride
2003 Pete Joy
2002 Gary Wyss
2001 Tim Fitzpatrick
2000 Nancy (Penny) Colton
1998 Tim Snelling
1997 Susan Sorini
1996 Michael LeFever
1995 Bill Squires
1994 John Mansanti

News of Alumni, Colleagues, and Friends

Clayton and Lori (Christiaens) McKee (B.S. 2001) In case no one knew, Lori and Clayton are living in a small town north of Stockholm, Sweden. Clayton is commuting to Stockholm where he works on his post-doctoral research and Lori is teaching school. Sweden is quite a change from their tour in Australia where Clayton earned his Ph.D. in Chemistry. Can you guess from the pictures below where they were at the time?



Raoul Gabhart (M.S. Geochemistry 1997) To bring you up to date, I started out in Indiana after graduation working for Unimin Corporation at a clay mine and processing plant. I stayed there for 6 years and then went to North Carolina

as an Assistant Plant Manager at a brick manufacturing company. After I determined that was not the direction I wanted to take, I re-entered the minerals business as a Process Engineer/Quality Manager at a Zemex Corporation mica mining operation in Kings Mountain, NC. From there, I am now in southwest Georgia at C.E. Minerals/Imerys, a company that mines and processes kaolin clay into refractory mullite. I am still in quality and laboratory management at C.E. Minerals; and, I am also exploring the possibility of teaching in the Geology and Chemistry Departments of Georgia Southwestern State University here in Americus, Ga. Oh, how could I forget! Victoria and I now have four children, ages 1, 4, 6, and 8. We just bought a home in the country with 25 acres and plan on raising some cattle and farming organic sugar cane, peanuts, and cotton

Brady Dykema (B.S. 2005) I am currently in my second year as a graduate student/ Ph.D. candidate at Texas A&M, most of my graduate course work is completed; and, I am well into starting my Ph.D. research. The first year I picked a research advisor and took classes while teaching, grading, and tutoring the standard three lab sections. My next step will be to choose two committees. The first is a literature seminar committee, reminiscent of my undergraduate days in chemistry seminar class; while the second committee will be my research committee for the next few years. My research advisor is Dr. Tim Hughbanks, a solid state chemist, whose focus is in single molecular magnetism using gadolinium and other rare-earth compounds; highly reduced molybdenum cubane clusters with the goal of adding functionality to metal

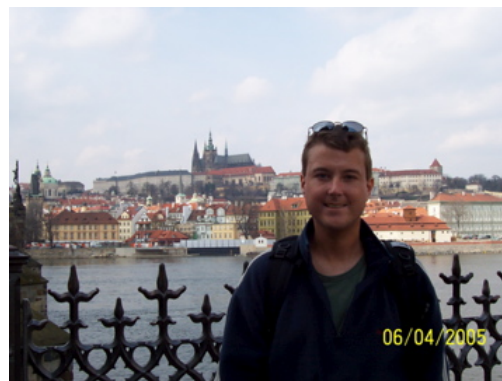
organic frameworks (MOF's); and density functional theory and extended-Huckel calculations. My research is the in the MOF's right now. The description of course sounds rigorous, but the day to day work involves such mundane tasks as setting up (and taking down and disposing) solvent stills, making silica and pyrex tubes or ampoules for reactions. We do most of our own glass blowing, since the reactions are for air sensitive compounds



Abbie Phillip (M.S. Geochemistry 1999) We are excited to be returning to Montana. We have bought Mark's (B.S. 1996 and M.S. 1999 Environmental Engineering) grandparents' home in the valley west of Anaconda, and we plan to move in August. Henry, our 5 year old, will start 1st grade in the 2007 Fall. Joe, our 3 year old, gets some more time at home with mom. Mark will stay with his current Canadian company and become their US presence. He'll work out of the home and travel to do the consulting. As for me, I plan to garden, run some chickens, run after the family, and offer my services as a birth doula (mother's support during labor). I believe I have started a couple new chapters in my life since graduating from Tech. My experience as grad student still has a valuable impact on my life. I am just not doing chemistry right now

(unless you count vinegar and baking soda experiments in the kitchen).

Aaron Hieb (B.S. 2000) I received my Ph.D. the summer of 2006 from the University of Colorado-Boulder in Chemistry, with my focus in the Biochemistry division. I went straight to graduate school from Montana Tech after I graduated in 2000, thus, taking me 6 years to complete my degree. My advisor was James Goodrich and the title of my thesis is "Architecture and mechanism of the human RNA polymerase II general transcription machinery." I have moved to Heidelberg, Germany to pursue research at the German Cancer Research Institute (DKFZ). There, under the direction of Joerg Langowski, I will be using nanotechnology to observe single biomolecules to help understand how they influence cancer and other diseases. This project basically bridges biochemistry with physics to understand questions not resolved when looking at an average of many molecules. I am excited to get working on this project as I will be able to learn and use new cutting edge technologies, plus I will be in the beautiful city of Heidelberg and have Europe at my fingertips. The photo was taken in Prague.



Marge Willett (M.S. 2001) I just thought I would take a break from the other writing I was doing on this computer and write a letter. I am still working on a PhD and still working at Klamath Community College. I was promoted to Faculty Administrator, which is very similar to Associate Dean, or Assistant Provost. I oversee 3 department chairs. I am in the process of writing a NSF grant for an Advanced Technology Education Project....so I have been really busy!!!!!!!!!!!!!!!

Chemistry Students Awarded Scholarships

Ann Bowler Memorial Scholarship – Ann graduated with a Chemistry degree in 1985 and was valedictorian of her graduating class. The \$250 scholarships are supported through generous contributions from Betty Bowler and the Department of Chemistry and Geochemistry through donations from generous alumni and friends.

05/06 Awardees: Robert (Nick) Gow, Steven Ledger, Andrew Ramstead and Cynthia Kuchtyan

06/07 Awardees: Ashly Huft and Jessie Nichols

Bill Chatham Memorial Scholarship-

Bill was an analytical chemist who worked in the Chemistry and Geochemistry Department on the ARCO Wetlands project. This \$500 scholarship is supported by the Chemistry and Geochemistry Department through donations from generous alumni and friends.

05/06 Awardee: Ken Bates

06/07 Awardee: Andrew Ramstead

Dr. Roy H. Turley Scholarship – Roy was a chemist and Vice President for

Academic Affairs at Montana Tech from 1978 to 1987. This \$620 scholarship is supported through an endowment established by Shirley Turley in Roy Turley's memory.

05/06 Awardee: Janice Radar

06/07 Awardee: Matthew Garrett Smith

Butte Kiwanis Club Bud Koch

Scholarship – Bud was a chemist and President of Montana Tech from 1946 to 1971. This \$500 scholarship is supported by the Butte Kiwanis Club in Bud Koch's memory.

05/06 Awardees: Philip Teintze and Ashley Huft

06/07 Awardee: Caleb Hartz

The following two Departmental Scholarships are new.

Andrea Stierle Honors Scholarship –

Andrea is a research faculty member at Montana Tech and has had a mutually rewarding relationship with the Chemistry Program. The scholarship is for an entering woman chemistry major at Montana Tech. This \$1,000 scholarship is supported by the Chemistry and Geochemistry Department through donations from generous alumni and friends.

05/06 Awardees: Elaina Berg

06/07 Awardee: Brianna Patacini

Jack T. Gentry Research Scholarship

– Jack is a Metallurgical Engineering alum of the Montana School of Mines and a strong supporter of Montana Tech. The \$950 scholarship is supported through a generous endowment from Jack T. and Ann Gentry.

06/07 Awardee: Michalee Moen

Thanks!

The faculty, staff, and students in the Department of Chemistry & Geochemistry would like to thank the following alumni and friends who have generously made donations that have supported the activities in the Department.

2005

Bowler, Elizabeth
 Cameron, Douglas & Marilyn A.
 Coe, Dr. Douglas A.
 Colton, Penny N. & Gerald Youngblood
 Crawford, Gordon H.
 Dobb, Dr. David E.
 Gerhart, Joel L. & Elizabeth A. Maida-Gerhart
 Ivanich, Joseph S. & Sandra E.
 Jonas, Jr., James P. & Misty A.
 McBride, Donald J. & Julie
 Obolewicz, David B.
 Seitz, Jacob
 Snelling, Timothy J.
 Sobering, J. Gordon & Colleen R. Sologub-
 Sobering
 Squires, William A. & Sherry S.
 Wambeke, Tina C. & Charles
 Watts, Heath D.
 Yezek, Marilyn

Stierle, Andrea & Dr. Donald
 Wambeke, Tina C. & Charles
 Watts, Heath D.
 Wright, Allison K.
 Yezek, Marilyn

2007 (to date)

Bowler, Elizabeth
 Callaghan, Celeste M.
 Cameron, Douglas & Marilyn A.
 Dr. Douglas A. Coe
 Drew, Douglas A. & Ann R.
 Gerhart, Joel L. & Elizabeth A. Maida-Gerhart
 Jonas Jr, James P. & Misty A.
 McBride, Donald J. & Julie

2006

Bowler, Elizabeth
 Callaghan, Celeste M.
 Cameron, Douglas & Marilyn A.
 Coe, Dr. Douglas A.
 Davis, Terrence L. & Mary T.
 De Money, Ellen C.
 Dobb, Dr. David E.
 Drew, Douglas A. & Ann R.
 Gabhart, Raoul P.
 Gress, Julie A.
 Guay, Rebecca C.
 Johnson, James D. & Dianne Kimball
 Lott, Stephen F. & Margaret A. Staton
 Nilson, Lee A. & Colleen H.
 O'Halloran, Neil J.
 Pasecznyk, Michael J.
 Petrucelli, Bridget M.
 Ratz, Nathan H. & Lisa S.
 Snelling, Timothy J.

Thanks!

We would like to include professional and personal news about you in future Newsletters;

Name _____

Home Address _____

Home Phone _____ Business Phone _____

E-Mail Address _____

Current Professional Title _____

Business Address _____

News _____

Tax deductible gifts to help the Department of Chemistry and Geochemistry provide a superior education to Tech students are greatly appreciated.

Thank you for your generosity and support.