



CHEMMUNICATOR

<http://chem.mst.edu>

chem@mst.edu

2010 Spring Semester

Nuran Ercal to serve as S&T's first Vitek Chair of Biochemistry

Dr. Nuran Ercal, professor of chemistry at Missouri University of Science and Technology and an expert in the study of lead toxicity and free radicals in biological systems, has been named the Richard K. Vitek/Foundation for Chemical Research Endowed Chair in Biochemistry at Missouri S&T. The position took effect June 1, 2009.

The chair was established in 2005 through a lead gift of nearly \$800,000 from Richard K. Vitek, a 1958 Missouri S&T chemistry graduate, and his wife, Marilyn. It will help combine the expertise of faculty from the departments of chemistry, biological sciences, and chemical and biological engineering.

In addition to the gift from the Viteks, major contributions were provided by Missouri S&T's Foundation for Chemical Research (FCR) and other donors. A corresponding match from the University of Missouri brings the total equivalent endowment value to nearly \$2 million to support the faculty member's work.

"Dr. Ercal's expertise has led to advances in cancer and HIV research, and her position as Vitek Chair will enable her to accelerate these important medical advances," says Dr. John F. Carney III, chancellor of Missouri S&T. "This chair will help Missouri S&T bring together several departments to advance research in analytical and environmental chemistry and biochemistry. We are grateful to the Viteks, the Foundation for Chemical Research and the other donors for their vision and generosity in supporting this significant chair."

Ercal began work at Missouri S&T as a research associate in 1990. In 1993 she was named assistant professor and associate professor in 1999. She was named professor of chemistry in 2005. Her research focuses on free radicals in biological systems, metal toxicity – particularly lead poisoning and its treatment with antioxidants – and the benefits of antioxidants in the treatment of free radical-related conditions like radiation, nicotine exposure, alcohol overuse and HIV proteins.

Ercal served as visiting research professor at Washington University in St. Louis from 2000-2001 and in July 2004, was named adjunct associate professor of internal medicine at Saint Louis University, a position she still holds.

During her tenure at Missouri S&T, Ercal has won the Faculty Excellence Award five times. She was named Outstanding Teacher twice and in 2003 was named Missouri S&T Woman of the Year. She is an honorary member of Phi Eta Sigma, and a member of Sigma Xi, the Oxygen Society, and the Missouri Academy of Science.

Ercal earned an M.D. degree from Istanbul Medical Faculty in Turkey in 1981. In 1988, she earned a master of science degree in physiology from The Ohio State University. She earned a Ph.D. degree in physiology from Hacettepe University in Ankara, Turkey, in 1990.

Vitek, a founding member of Missouri S&T's Foundation for Chemical Research, is the founder and retired chair and CEO of FOTODYNE Inc., the first company to manufacture laboratory instruments for DNA research. He used his expertise in thin-layer chromatography and electrophoresis to produce equipment for the separation, ultraviolet visualization and analysis of DNA. Throughout his career, he formed several other scientific subsidiaries. He retired in 2002. The Viteks have just relocated to Clermont, Fla., from Dana Point, Calif.

"Giving back to Missouri S&T by way of a chair in biochemistry culminates my lifelong career that started at MSM and expanded into chemical analysis, environmental contaminants and biochemistry," Vitek says. "This chair brings all these disciplines together to help meet tomorrow's needs in protecting our valuable resources from further environmental pollution and to make new scientific breakthroughs in medical care."



Dr. Nuran Ercal
Vitek Endowed Chair of
Biochemistry

INSIDE THIS ISSUE

- Dr. Nuran Ercal first Vitek Chair of Biochemistry
- 2009 Graduates
- Accolades
- Hot New Research
- 2010 Phonathon
- Contributions & Gifts
- 2009-2010 Scholarship Recipients
- Greetings from the Chair
- Alumni Updates



**Dr. Cynthia Bolon
2009 St. Patrick
Honorary Knight**

May

Cory Cheatham, BA
Jennifer Pena, BA
Bryce Hamilton, BS
Kimberly Level, BS
Yi Jen Su, BS
Linu Abraham, PhD
Elizabeth Kulp, PhD
Manikantan Nair, PhD
Isaac Stayton, PhD

Dr. Cynthia Bolon 2009 St. Patrick Honorary Knight

Dr. Cynthia Bolon is a lecturer in the chemistry department at Missouri S&T. A Rolla native, Bolon is the daughter of Sherrell Bolon and the late Dr. Albert Bolon. She is a 1996 graduate of Columbia College, where she received a bachelor's degree in fashion design and a bachelor's degree in independent studies with an emphasis in chemistry. Bolon later attended S&T, where she received a Ph.D. in nuclear chemistry in 2006. Her dissertation work focused on the interactions of nucleons and the repulsion of nucleons as a source for stellar energy. Since 1996, Bolon has been actively involved with various organizations on campus. She designed the 2001 St. Pat's sweatshirt, helped design new knight's costumes and worked on the coloring book for the 100th St. Pat's anniversary.

December

Brian Howell, BS
Christopher James, BS
Joseph Kellogg, BS
Xiaoqian Liu, PhD



Dr. Robert Raymond Russell

Dr. Robert Raymond Russell, passed away Friday, February 12, 2010 in Rolla, Missouri. Dr. Russell began his career as a professor of organic chemistry at MSM/UMR, now Missouri S & T. He taught at the university from 1948 until his retirement in 1985. He is survived by three sons, Dr. John M Russell and wife Janet, James A Russell and wife Carol Heddinghaus and Bruce Russell and wife Katherine Cook.



Dr. Robert R. Russell



Dr. David Hoiness

GOODBYE DR. HOINESS

Dr. David Hoiness retired from Missouri University of Science and Technology on June 30, 2009. Dr. Hoiness began his third career in the Chemistry Department on September 1, 1995 after retiring from DuPont Corporation and a successful consulting career. He was assistant chair of chemistry and was in charge of all the labs and safety as well as the entire Schrenk Hall building. Dr. Hoiness was also in charge of the scheduling of all Chemistry courses. He has settled in Minnesota where he will be in close proximity to his daughter and mother. We wish Dr. Hoiness good luck in his next career.

Congratulations!!!

Dr. Harvest Collier, vice provost for undergraduate studies and chemistry professor at Missouri S&T, is one of 10 educators in the United States to be selected as Outstanding First-Year Student Advocates from the National Resource Center for the First-Year Experience and Students in Transition.

Missouri University of Science and Technology awarded 11 honorary professional degrees during spring commencement ceremonies held on May 15 and 16, 2009. James O. Stoffer Jr., technical manager of the North America Division of Becker Acroma, received a professional degree in chemistry. His father is **Dr. James O. Stoffer**, Curators' Professor emeritus of chemistry at Missouri S&T.

Freshman engineering students nominated and voted for their favorite instructors in the annual "We Love Your Class" poll for the 2008-2009 academic year. There was a total of 23 instructors nominated and of 8 favorite instructors selected, 3 were from the chemistry department. They are **Dr. Cynthia Bolon**, **Dr. Harvest Collier** and **Dr. Klaus Woelk**. This was the fourth year Freshman Engineering has had the award and **Dr. Woelk** and **Dr. Yinfa Ma** have been nominated every year.

Congratulations to **Dr. Manashi Nath** and **Dr. Amitava Choudhury** who are the proud parents of a baby boy. Anuraag Dipto Choudhury was born June 24, 2009 and weighed 8 pounds and 2.6 ounces.

Dr. Yinfa Ma has developed a method for pre-cancer screening that uses urine samples for detection. Ma hopes to be able to predict types of cancer as well as severity. "Cancer is the second-highest cause of death among all diseases," says Ma, a Curators' Teaching Professor of chemistry at Missouri University of Science and Technology. "Early diagnosis of cancer is crucial, but not many people want to go to the hospital to undergo costly, invasive cancer screening."

Dr. Jeffrey Winiarz, assistant professor of chemistry, is part of a research project funded through the National Institutes of Health under the American Recovery and Reinvestment Act. Dr. Winiarz is creating quantum dots to develop a new and better way to deliver and monitor proteins, medicine, DNA and other molecules at the cellular level. Dr. Yue-wern Huang (Biological Sciences) is leading the Quantum dot research.

Dr. Jeffrey Winiarz, assistant professor of Chemistry has won the Committee for Effective Teaching (CET) Outstanding Teaching Award for 2008-2009. The annual award is given to faculty members based on student evaluations.

Dr. Klaus Woelk, associate professor, received the 2009 Teaching Award. The awards are given annually to recognize outstanding faculty. Twenty-six faculty members at Missouri S&T received awards for their achievements, research, service or teaching for 2009.

Seven scientists were inducted into the Missouri S&T Academy of Chemists and Biochemists during the academy's induction ceremony held Oct. 23, 2009. New members are **Dr. Bryan E. Breyfogle**, **Dr. Nuran Ercal**, **Dr. Maciej Gazicki-Lipman**, **Dr. Janet Lynn Kavandi**, **Dr. James R. Knox**, **James Stoffer Jr.** and **Dr. Glenn E. Stoner**. Members of the academy are scientists who have made outstanding contributions to their profession.

Dr. Jay A. Switzer and his colleagues at Missouri S&T report in the Journal of the American Chemical Society as well as North Korea Times, that they have constructed a type of superlattice that shows "unique low-to-high and high-to-low resistance switching that may be applicable to the fabrication of an emerging memory device known as resistive random access memory," or RRAM.

Hongfang Zhao and **Rongpeng Wang** are the proud parents of a baby girl, Ella, born January 8, 2010. Hongfang and Zhao are current PhD students at Missouri S&T.

Joseph Kellogg, a December graduate of Missouri S&T, received a perfect 4.00 GPA in chemistry.

Dr. Frank Blum Curators' Professor of chemistry, retired January 2010 and has taken the position of chair of chemistry at Oklahoma State University in Stillwater. Congratulations Dr. Blum.

Welcome Jonathon Sidwell



Jonathon Sidwell began working in the Chemistry department as well as the Center of Excellence for Aerospace Particulate Emissions Reduction Research lab in November 2008. Jonathon is now a Senior Research Specialist assigned to Building Management relating to environmental health and safety compliance issues, maintenance, repair and construction for Schrenk Hall. He began his new duties on July 1, 2009. Jonathon received his BS in Chemical Engineering from Missouri S&T in 1997 and a M.B.A. from Webster University in 2003. We are happy to have Jonathon join us.

Klaus Woelk Assistant to Chair for Academic Affairs



Dr. Klaus Woelk has been assigned to be responsible for Academic Affairs related to curriculum, teaching schedules and TA assignments as well as space allocation for the Chemistry department. His assignment was effective July 1, 2009. Dr. Woelk is an associate professor at Missouri S&T and began his career in the department in 2003.



Research could lead to new materials

Recent experiments to create a fast-reacting explosive by concocting it at the nanoscopic level could result in more spectacular firework displays. But more impressive to the Missouri University of Science and Technology professor who led the research, the method used to mix chemicals at that tiny scale could lead to new strong porous materials for high temperature applications, from thermal insulation in jet engines to industrial chemical reactors.

Researchers led by **Dr. Nicholas Leventis**, a professor of chemistry at Missouri S&T, reported in the April 8 Journal of the American Chemical Society that they created a new type of flammable nanomaterial by combining an oxidizer (copper oxide) with an organic fuel (a resorcinol-formaldehyde polymer, or RF). Nanomaterials are made from substances that are one billionth of a meter – the size of a few molecules. This achievement has been highlighted in the online edition of Nature Chemistry.

The new nanomaterial burned rapidly when ignited by a flame, leaving behind minimal residue, Nature Chemistry's April 3 Research Highlights section reported on the Leventis

research.

While the Leventis research is based on the hypothesis that the performance of so-called low-order explosives such as gunpowder can be improved by mixing the oxidizer and fuel as closely as possible – at the nano level, nanoparticle to nanoparticle – Leventis is more excited about the “very far-reaching implications” of the experiment.

“The broader impact of this research is in the methodology of making intimate mixtures of nanoparticles that can react efficiently and fast. That will most certainly lead to future innovations in materials science. Energetic materials is just an example,” he says.

Mixing materials at the nano level may lead to stronger substances, because the two materials may be more closely woven together. Leventis sees this approach leading to such materials engineering breakthroughs as the development of microporous ceramics that can hold up under extremely high temperatures.

The more immediate application of this research could be in pyrotechnics, Leventis explains. Fireworks are considered low-order explosives, meaning that their reaction rate can be improved by mixing the oxidizer and fuel as closely as possible.

With this research, Leventis and his Missouri S&T colleagues worked with Dr. Hongbing Lu, a professor of mechanical and aerospace engineering at Oklahoma State University, to create a fluffy, low-density mixed aerogel from the copper oxide and the RF nanoparticles.

To make the mixed network of nanoparticles, the researchers devised a one-pot sol-gel method, in which they used the gelling colloidal solution (“sol”) of one component (copper oxide) as the catalyst for the gelation of the second component (RF). In the final product, copper oxide acted as the fuse to catalyze, or ignite, the RF fuel.

The research was published March 17 in the online Journal of the American Chemical Society. Working with Leventis at S&T were **Dr. Chariklia Sotiriou-Leventis**, professor of chemistry, and **Naveen Chandrasekaran** and **Anand G. Sadekar**, both graduate students in chemistry.

Dr. Nicholas Leventis Named Curators' Professor

The Board of Curators of the University of Missouri have conferred the title of Curators' Professor on Dr. Nicholas Leventis during Missouri S&T commencement ceremonies, December 19, 2009. Congratulations Dr. Leventis!

A note from Mrs. William (Ruby) Webb

Mrs. William (Ruby) Webb would like to extend her best wishes to all of the faculty, staff and students. She enjoys receiving letters from everyone here at Missouri S&T. Keep those letters coming!

2009 Chemistry Phonathon

Last year's Chemistry Department phonathon was held in April and thanks to all the alumni it was a great success. The Missouri S&T Chemistry Department received pledges totaling \$9,785.00. Thank you to all those who made this possible, and thank you for supporting the students.

This year's phonathon will be held April 15, 18, 19, 20 and 21, 2010. With the economy as it is, please answer your phone and say “Yes,” when asked to make a pledge. Taxpayer support accounts for 40% of the university's revenue, making your contribution a vital ingredient in the revenue pie. Any amount you give will be greatly appreciated.

Thank you!!!

Contributions

3M FOUNDATION
ABBOTT LABORATORIES FUND
ALLIANCE FOR ADVANCED
COATINGS
BASF CORPORATION
BORG-WARNER FOUNDATION, INC
CATERPILLAR FOUNDATION
DOW CHEMICAL COMPANY
FOUNDATION
DOW CORNING CORPORATION
HALLMARK CORPORATE
FOUNDATION
KANSAS CITY SOCIETY FOR
COATINGS TECH
LOCKHEED MARTIN
CORPORATION
MERCK COMPANY FOUNDATION
MONSANTO FUND
MSC
PPG INDUSTRIES FOUNDATION
RESEARCH MISSISSIPPI, INC
SANOFI-AVENTIS
SUN MICROSYSTEMS
SHELL OIL COMPANY
FOUNDATION
UNION PACIFIC CORPORATION

Gifts

AKERS, DAVID ALLEN
AKERS, JAMES EDWARD
AKERS, JILL RENEE
ALBERT C. BEAN, SR. SCHOLARSHIP
& LOAN FDN.
ALTEPETER, MICHAEL A
ANDERSON, DENNIS R
ANDERSON, HOMER L
ANDERSON, MYRA S
BAER, TEDA
BARKLAGE, AARON KEITH
BARKLAGE, AMY LEE
BARTLETT, RUTH A
BENNETT, GARRY A
BIERMAN, FREDERICK H
BOHANON, JOSEPH T
BRUMMEL, ROGER N
BURCHFIELD, THOMAS E
BUTNER, MICHAEL R

CAPE, CHRISTOPHER C
CARMAN, FREDERICK R
CHEN, SZU-CHAIN F
COVAULT, RICHARD A
CRAIG, MARY R
CROWDER, CYRUS E
CRUMP, JAMIE JOHANNA
DAVIES, CAROL A
DEGOOD, JOHN S
DOVER, GEORGE MARTIN
DOWNING, ROBERT G
DUGAN, DANIEL C
DUNCAN, PAMELA MARIE
DUONG, KHANG VAN-SI
ECKLER, PAUL E
EVERS, APRIL MARIE
EVERS, THOMAS MICHAEL
FLAIM, TONY DAVID
FLORI, BEVERLY J
FLORI, RALPH E
FORNI, SABRINA
FREEMAN, JEFFREY
GRANNEMANN, HARRY NEAL
GRANNEMANN, LYNN
GRASDOCK, ORVILLE
GRIFFIN, PAUL D
HARDIN, DAVID P
HARMON, TRACI DAWN
HAWKINS, RODNEY B
HAYNES, MICHAEL A
HERITAGE, ROBERT L
HESCH, RUSSELL J
HESSLEY, RITA K
HIGGINS, ARTHUR J
HIGGINS, PATRICIA A
HOINESS, DAVID E
HOLDMAN, JON MARK
HOLLAND, JEFFERY R
HOLLAND, KATHLEEN P
HUDWALKER, MARVIN ERNEST
IHMS, ANN A
IHMS, DAVID W
JAMES, WILLIAM J
JOHNSON, RICHARD H
KAPILA, SHUBHENDER
KNOX, JAMES R
KROUTIL, JUDE ANTHONY
KROUTIL, LISA CAROL
KULVARANON, EMERENTIANA
KULVARANON, SUVIT
LAEGELER, ANDREW PARRY
LAEGELER, MOLLY T
LAROUCHE, ANDREW OLIVER
LINDEMUTH, PAUL MICHAEL
LITTLE, BILLY F
LUTZ, DALE R
MASON, NICOLE RENEE

MAYER, CLARENCE D
MILNE, ANNIE HALL
NAEGER, MELANIE G
NAEGER, ROBERT J
NARAYAN, SUBRAMANIAM
NICKOLS, SUSAN MARIE
OSBORNE, CAROL JEAN
OSBORNE, DAVID WADE
PATTERSON, BARBARA R
PATTERSON, GARY K
PAYNE, KATHRYN E
PERKINS, TRACY SUZANNE
POWELL, JOHN DWIGHT
PUCKETT, JAMES L
REDMAN, WILLIAM LYNN
REIMER, MICHAEL TODD
RIDENOUR, KRISTIN RENEE
ROTH, STEVEN PAUL
SANDERS, AMELIA G
SCHROEDER, CHARLES E
SCHUCKER, GERALD D
SCHUMAN, THOMAS
SENKEVICH, JAY J
SHACKELFORD, MARSHALL B
SHERMER, WILLIAM D
SILKWOOD, BLAKE E
SILKWOOD, LAURA ANNE
SMITH, PAUL J
SNARRENBERG, JAMES D
SRIRANGAM, UMAMAHESWAR RAO
STEVENS, ANTHONY A
STEVENS, LEISA C
STRAIT, DARRELL R
STRAUB, JOHN CHRIS
STRITE, RUSSELL R
SWEENEY, EDWARD G
TABOR, KENNETH E
TAYLOR, CHRISTINA MARIE
THOMLISON, CLYDE D
THOMPSON, LARRY F
TREASURER, ROBERTA L
VINANSKY, GEORGE
VOGEL, MATTHEW F
WARNER, DEANNA LYNN
WEBB, MRS. WILLIAM (RUBY) H
WETHINGTON, ANN P
WHITNEY, DENNIS L
WIDEMAN, LAWSON, G
WILSON, MELISSA R
WYZLIC, GERALD W
YEOMAN, SHERREE LEE
ZIENTARA, GINA ANN

Thank you!!!



GREETINGS FROM THE CHAIR

Despite the precarious state of the global economy, 2009 has been a great year for the department and 2010 is looking to be equally good. There have been several important developments since I last wrote to you. In June the department was pleased to announce that Dr. Nuran Ercal was appointed to the Vitek chair. Nuran was the best candidate in a strong field of contenders. We look forward to seeing biochemistry flourish at Missouri S&T through her leadership. In that same month we said goodbye to Dave Hoiness, our assistant chair, who elected to retire. When I became chair in 2005 Dave taught me the ropes and was my invaluable assistant from that time on. In

his absence we have divided his responsibilities into two parts. For academic affairs, in particular the teaching schedule, Klaus Woelk has been appointed as assistant chair, and the physical facilities and environmental health and safety aspect has been taken over by Jonathon Sidwell. In December the department was honored when Nick Leventis was appointed to the rank of Curators' Professor and in that same month Frank Blum announced his retirement and his subsequent appointment as Chair of Chemistry at Oklahoma State University. Frank had a distinguished career at Missouri S&T, we wish him well in Oklahoma and are happy to note that significant joint research projects are planned in the near future between our two institutions. Immediately prior to Frank's retirement Congress announced \$2.4M in funding for a DOD project spearheaded on the S&T campus by Frank and Nick. This award will lead to the establishment of a state of the art campus 400MHz NMR facility to be housed and operated in the chemistry department.

Our research and teaching remain strong. In 2009 the average research expenditures per tenured and tenure-track faculty exceeded the campus 2012 target by 40% and total expenditures approached \$3M in 2009. Our teaching, particularly in service courses, continues to receive praise and excellent student evaluations – no mean feat when you realize that the Chem 1 and Chem 2 instruction teams both taught in excess of 1000 freshmen during the last academic year and are scheduled to teach an ever larger class in 2010. As a measure of the quality of teaching performance by the faculty, the department is proud to announce that Klaus Woelk was awarded one of the six prestigious 2009 Teaching Awards.

I have only touched upon a few of the many highlights of the last year and hope you will enjoy reading more about the good works going on in Chemistry at Missouri S&T in this edition of the Chemmunicator. Here's wishing you all a good year ahead and thanking you once again for your continued support.

Best wishes

Phil Whitefield

Alumni News

Dr. David W. Ihms (PhD 87) and wife Ann operate their own business, Criterion Water Labs, LLC, a state certified water testing lab in Indiana.

Dr. John Adams (BS 74) professor of chemistry at the University of Missouri-Columbia received the University of Missouri President's Award for Outstanding Teaching.

Steven Roth (BS 82) is a lab manager for Carboline Company in St. Louis, Missouri.

James Snarrenberg (BS 72) is chief of staff at Phoenix Baptist Hospital, is married, and has a set of twins in college and a son in high school.

Walter Keith Dean (MS 41) passed away January 19, 2009. We extend our sympathy to his family and friends.

Academic Scholars 2008-2009

This recognition is given to full-time students who earned a 3.5 or above GPA for that semester.

Fall 2008

Acar, Selin
Anderson Jr., Charles
Clark, Brandi
Hahn, Taylor
Hamilton, Bryce
James, Christopher
Koenig, Amanda
Marting, Caleb
McPhail, Martin
Mentis, Dava
Mollhagen, Ariel
Oldroyd, Megan
Porter, Ashley
Porter, Bradley
Porter, Matthew
Smiley, Timothy

Su, Yi Jen
Wilmes, Joshua

Spring 2009

Acar, Selin
Clark, Brandi
Hamilton, Bryce
Howell, Brian
Jentsch, Nicholas
Jordan, Kelsey
Kellogg, Joseph
Marting, Caleb
McPhail, Martin
Mentis, Dava
Mollhagen, Ariel
Moore III, James
Oldroyd, Megan
Pena, Jennifer

Pfaff, Annalise
Porter, Ashley
Porter, Bradley
Porter, Matthew
Rader, Ryan
Vernon, Hamilton
Wilmes, Joshua
Windhausen, Alan

2009-2010 Scholarship Recipients

Bean Scholar

Mahala, Benjamin
Porter, Bradley

Wouter Bosch Scholarship

Babcock, Brett
Chambers, Chantal
Hill, Katelin
Kellogg, Joseph
Marks, Richard
Mentis, Dava
Pfaff, Annalise
Porter, Matthew
Teague, Hannah
Walcher, Megan
Wilkerson, Ryan
Willmering, Matthew

KCST Scholarship

Porter, Bradley

Davies Scholarship

Wilmes, Joshua

William & Arlene James

Scholarship

Acar, Selin
Bass, Kelsey
Bracht, Callie
Burre, Curtis
Burton, Casey
Carey, Cassidy
Collin, Aline
Hallier, Gabrielle
Howell, Brian
Jentsch, Nicholas
Miller, Andrew
Mollhagen, Ariel
Moore III, James
Moore, Heath
Porter, Ashley
Smiley, Timothy
Walker, Jessica
Williams, Courtney
Witt, Emitt

Pietsch Scholarship

Basler, Brandon
Rader, Ryan
Windhausen, Alan

Stoffer Scholarship

Hull, Caleb

William H. Webb Scholarship

Anderson Jr., Charles
James, Christopher
Koenig, Amanda
Kurath, Dustin
Marting, Caleb
McPhail, Martin
Meyer, Laura
Moore, Aubrey
Oldroyd, Megan
Vernon, Hamilton
Walsh, Kelly
Wessel, Andrew

Let us know where you are and what you are doing.

mail to
Chemistry Department
Missouri University of Science and Technology
142 Schrenk Hall
Rolla MO 65409

or

fax to (573) 341-6055
email to
zudalgk@mst.edu
or chzm@mst.edu

Name _____ Year attending UMR/Missouri S&T _____

Current activities/interests _____

Family _____

News/Plans _____

**Missouri University of Science
and Technology
Chemistry Department
142 Schrenk Hall
400 W. 11th Street
Rolla, MO 65409-0010**

NONPROFIT
ORG
U.S POSTAGE PAID
PERMIT 170
ROLLA MO