

**COLLEGE OF SCIENCE, ENGINEERING AND TECHNOLOGY
OCTOBER, 2004**

GOOD NEWS

BIOLOGICAL SCIENCES

Dr. Christopher Ruhland, Assistant Professor, has presented the following paper: Ruhland, C.T. and T.A. Day. The influence of ultraviolet-B radiation on *Deschampsia antarctica* and *Colobanthus quitensis* during springtime ozone depletion in Antarctica. 32nd Annual Meeting of the American Society for Photobiology. Seattle, WA.

Dr. Dorothy Wrigley, Professor, has published the following article: Wrigley, DM 2004. Inhibition of *Clostridium perfringens* sporulation by *Bacteroides fragilis* and short-chain fatty acids, *Anaerobe* 10:295-300.

Drs. John D. Krenz, Associate Professor, & Brock R. McMillan, have received the following grant in 2004: Effect of density of wild turkey hunters on hunter satisfaction and landowner perceptions. \$32,500. 3 years. Minnesota DNR Research Grant.

Dr. Michael Bentley, Professor, and Ms. Sara Niemeyer were listed as co-authors on the following paper (Ms. Niemeyer received her bachelor's degree in Biology from MSU, Spring 2003, and worked on the project as a Mayo Undergraduate Intern during the summer of 2002): Chade AR, Bentley MD, Zhu X, Rodriguez-Porcel M, Niermeyer S, Amores-Arriaga B, Napoli C, Ritman EL, Lerman A, Lerman LO (2004) Antioxidant intervention prevents renal neovascularization in hypercholesterolemic pigs. *J Am Soc Nephrol* 15:1816-1825.

CHEMISTRY AND GEOLOGY

Dr. Dean Moosavi, Assistant Professor, was invited to San Francisco in September 2004 by the NASA Education Division in continuing work supporting development of the Astroventure on-line Earth and Space Science Education curricular materials. Interested parties and parents can check out Astroventure at <http://astroventure.arc.nasa.gov/>

Dr. Michael J. Lusch, Professor, attended three, week-long conferences on various aspects of Organic Chemistry during Summer 2004 and presented a poster at each of the three on the research he did while on Sabbatical during 2001-02 at the Harvard Medical School, Institute of Chemistry and Cell Biology, in Boston, MA

2004 Gordon Research Conference on Heterocyclic Compounds, July 4 - July 9, 2004 at Salve Regina University, Newport, RI.

2004 Gordon Research Conference on Organic Reactions and Processes, July 18 - July 23, 2004 at Roger Williams University, Bristol, RI.

2004 Gordon Research Conference on Natural Products, July 25 - July 30, 2004 at Tilton School, Tilton, NH.

Poster: A Demonstration of the Feasibility of a Solid-Phase Split-Pool Biginelli Synthesis of 3,4-Dihydropyrimidinones

Dr. Jeffrey R. Pribyl, Professor of Chemistry, chaired the general papers for the 18th Biennial Conference on Chemical Education at Iowa State University. He was responsible for organizing over 50 papers into eight general paper sessions. The conference was held July 18-22, 2004.

Dr. Brian Groh, attended the 18th Biennial Conference on Chemical Education held in Ames, IA in July. While there, he presided over a general session on *Issues in Organic Chemistry*. In addition Dr. Groh presented a paper entitled *Online Assessment in Organic Chemistry*.

COMPUTER AND INFORMATION SCIENCES

A grant from 3M Corporation in the amount of \$5,000 was awarded to the Department of Computer and Information Sciences. These monies were combined with monies from the department's equipment budget and a Dell Power Edge model 3250 was purchased. This machine is a 64 bit server class machine containing dual 64 bit Itanium processors, redundant power supplies and three hard drives in a RAID 5 configuration. This machine represents the "cutting edge" in both hardware and software. It will be used in a variety of experiments during the coming year. Currently it is being used in COMS 340 using a 64 bit version of Microsoft Windows Server 200 (Enterprise Edition) and a 64 bit version of Microsoft SQL Server 200 – both obtained from the department's subscription to the *MSDN Academic Alliance*.

A journal paper was accepted for publication: Hakkila, Giblin, Young, Haglin, Roiger, Norris, Bonnell, "Probing GRB Jet Structure from Prompt Emission," to appear in *Chinese Journal of Astronomy and Astrophysics*.

The CIS department is proud to announce the winners of our inaugural technical writing contest. A total of \$225 in prizes was supported by the department and the Maverick Bookstore. The first place winner was Mohammed Abbas Reza for "Transistors: the Building Blocks of Modern Electronics Hardware". The second place winner was Nick Rogness for "Discovering Unique Subsets in Statistical Data". The third place winners were Steve Rodman, Casey Sorensen, Jianxiong "Kelvin" Tan, and Chris Escher for the instruction manual for software developed for the Advising Center. Their submissions will be published in a technical report highlighting writing in the field of computer science.

Dr. Rebecca Bates, Assistant Professor, received an NSF Research Opportunity Award (\$10,000) to study the correlation between meeting styles and discourse and dialog information at the University of Washington.

ELECTRICAL AND COMPUTER ENGINEERING AND TECHNOLOGY

Dr. Gale Allen has been promoted to the rank of senior member in IEEE. Dr. Bill Hudson and Dr. Bill Lewinski have received a commitment for a \$100,000 training simulator for the Force Science Research Center from the simulator company, IES.

MATHEMATICS AND STATISTICS

With a grant through the U.S. Department of Education, Drs. Mary Ann Lee and Kil S. Lee, Professors, conducted a summer mathematics institute June 14 - 24, 2004 for 26 leaders in the Southern Minnesota Mathematics Partnership.

Dr. Namyong Lee, Assistant Professor, participated in a group research for Mathematical Modeling of Cell Process at Ohio State University and presented a talk entitled "Coupled Mathematical Model of the Cell Cycle and Apoptosis". This travel and summer visiting program was supported by MBI (Mathematical Bioscience Institute). Also during this past summer, Dr. Lee participated in another group research for the 8th PIMS Industrial Problem Workshop at the University of British Columbia and presented "Seismic Attenuation Problem" which will appear in the Proceedings of Pacific Institute of Mathematical Sciences. Another version is being prepared for a journal publication. The travel and program was supported by PIMS.