

COLLEGE OF SCIENCE, ENGINEERING AND TECHNOLOGY

NOVEMBER 2005

GOOD NEWS

AUTOMOTIVE AND MANUFACTURING ENGINEERING TECHNOLOGY

Ann Goebel, Assistant Professor and Chair, AMET, delivered the Keynote Address entitled, "Green Eggs and Ham, The Higher Ed Supply Chain"; Thursday, October 13, 2005, for the American Technical Educators Associations (ATEA) 2005 Northern Plains Regional Conference at the North Dakota State College of Science, Wahpeton, ND. Prof. Goebel also gave an interactive Technical Session on October 14 for the conference entitled "Putting Lean in Four Wheel Drive".

Ann Goebel and John Rollins, MET, MS and Online Project GA co-presented "The Tortoise and The Hare: Developing the Multi Media Asynchronous Experience" on November 8 for the 3rd Annual MSU, M Wireless and Teaching & Technology Conference at Minnesota State University. Their presentation reflected the experiences between the content expert and the delivery technology integrators. Session highlights were planned versus actual pace of developing 100% asynchronous courses for delivering Lean Process Technology. This academic-corporate project addresses a Minnesota Online e-curriculum grant collaboration between Minnesota State University, Mankato, and Minnesota West Community and Technology College. Success and failure factors in approaching an effective online course conversion were explored. Experiences and actual content shared were based on eTEACH, Camtasia, and Visual Communicator packages with D2L as a delivery platform.

BIOLOGICAL SCIENCES

Matthew Krna, a graduate student in the laboratory of Dr. Christopher Ruhland, Associate Professor, arrived at Palmer Station, Antarctica in late October after a long voyage south aboard the icebreaker *Laurence M. Gould*. He will be studying the effects of global climate change on terrestrial ecosystems in the Antarctic tundra. Matt is expected to return in April.

Wersal, R.M., J.D. Madsen, and **B.R. McMillan**. 2006. Environmental factors affecting biomass and distribution of *Stuckenia pectinata* in the Heron Lake system, Jackson County, Minnesota. *Wetlands* 26: in press.

Dingman, Kari L., Richard O. Kimmel, **John D. Krenz, and Brock R McMillan**. In Press. Factors affecting wild turkey spring hunt quality in Minnesota. IN: Proceedings of the Ninth National Wild Turkey Symposium (C.A. Stewart, Ed.). Michigan Department of Natural Resources, Lansing, MI.

COMPUTER AND INFORMATION SCIENCES

Dr. Michael Wells, Associate Professor, presented his 2005 Teaching Scholar Fellowship teaching and learning initiative, "Completing an Application

Programming Textbook Manuscript for Submission for Textbook Publication," during the Ninth Annual Teaching Scholar Series on November 9.

Dr. Colin Wightman, Professor, attended the following conference: "Liberal Arts Education in America and the World", Washington, DC, October 27 - 29, 2005. Organized by the American Conference of Academic Deans and Phi Beta Kappa.

MATHEMATICS AND STATISTICS

Dr. Francis T. Hannick, Professor, presented a workshop at the National Council of Teachers of Mathematics Eastern Conference and Exposition on Hands-on Experience with Numerous Activities for the Elementary School Math Curriculum in Hartford, Connecticut on October 6.

Dr. Hannick also presented a workshop at the National Council of Teachers of Mathematics Southern Conference and Exposition on Hands-on Experience with Numerous Activities for the Elementary School Math Curriculum in Birmingham, Alabama on October 21.

Mezbahur Rahman, Larry M. Pearson and Rumanur Rahman (2005). "Quantiles for the Mixtures of Normal Distributions". Forthcoming, International Journal of Mathematical Education in Science and Technology.

Namyong Lee and C. Kim, "Accessibility and coverage measurement by network peering information", accepted for publication in the Journal of IABE.

PHYSICS AND ASTRONOMY

Dr. Hai-Sheng Wu has, as the first author, published the following paper: Wu, H-S., Zhou, Z., Kim, C.K., Li, G., Shinar, J. "Combinatorial fabrication and study of white organic light-emitting devices based on non-doping ultrathin 5, 6, 11, 12 tetraphenylnaphthcene (rubrene) yellowing emitting layer". In *Organic Light-Emitting Materials and Devices IX*, (Ed. by Kafafi, A.H. & Lane, P.A.), *Proceedings of SPIE* 5937, 59371W-1 toW-8. October, 2005. (SPIE, Bellingham, WA, 2005)

Dr. Hai-Sheng Wu has refereed an SPIE conference paper entitled "Driving circuit of a full color organic light-emitting diodes" for the publication in the October issue of 2005 SPIE Proceedings.

Dr. Hai-Sheng Wu was invited to give talks on solar energy, photovoltaic technology and applications, and OLEDs development and applications at the City Government Center of Shi-He-Tze City, Xin Jiang, China during the week of October 17, 2005.

Physics senior student, Mr. Steven Basser, has been awarded \$500 for his Undergraduate Research Conference (URC) Application for Project Support, "Interfacing and Establishing a Lab Station for Optoelectronic Measurements of OLEDs". He is currently working on this project under the supervision of Dr.

Hai-Sheng Wu. The outcome of the project will include: (1) Submission of an abstract and application to present by the February 27, 2006 deadline; (2) Presentation of his project at the URC; (3) Submission of his URC presentation to the MSU online publication, the URC Proceedings; (4) Presentation at the Physics Seminar; and (5) Presentation at the MAAPT's 2006 Spring meeting. Dr. Russell Palma, Professor, made the following research presentations in October and November: 1) "The Sun and Early Solar System: Genesis and Stardust" Physics Department Colloquium, Macalester College, St. Paul, MN, October 20, 2005; 2) "Picking Up the Pieces of the Genesis Mission" Department of Astronomy Colloquium, Indiana University, Bloomington, IN, November 8, 2005; 3) "NASA Discovery Missions--Genesis and Stardust" Physics Department Colloquium, Hamline University, St. Paul, MN, November 18, 2005.

He also made the following research presentation at the 68th Annual Meeting of the Meteoritical Society in Gatlinburg, TN, September 12-16, 2005: "Helium and Neon Isotopic Compositions from IDPs of Potentially Cometary Origin."

Dr. Palma was asked to participate in the Young Scientist Roundtable (YSR) program in Plymouth MN, where he spoke to approximately 200 students from grades 1-12 and their parents on November 1, 2005. YSR is a program of the Wayzata Public Schools and serves the Eden Prairie, Hopkins, Minnetonka, Osseo, Lakeville, Robbinsdale and Mound Westonka school districts.

Aaron D. Hanson, a physics major who will graduate in December, has been awarded a highly competitive position in the National Science Undergraduate Laboratory Internship (SULI) program. This program is run by the Department of Energy, and places promising students in paid internships in science and engineering at any of several Department of Energy national facilities. Students work with scientists or engineers on projects related to the laboratories' research programs. Aaron will be spending Spring Semester 2006 (a 16 week position) working at Oak Ridge National Laboratory in Tennessee.

Louis Schwartzkopf, Professor, and Aaron Budge, Assistant Professor in Mechanical & Civil Engineering, were two of the organizers of the Hurricane Katrina Teach-In held on campus on November 2; Dr. Budge was also a presenter. The teach-in consisted of eight presentations by experts, mostly faculty, on the causes of the disaster, the response to it, and lessons to be learned from it. More than two hundred were in the audience at one point, and many more attended throughout the day. The teach-in was co-sponsored by the College of Science, Engineering and Technology, the College of Social and Behavioral Sciences, and the Kessel Peace Institute.