

COLLEGE OF SCIENCE, ENGINEERING AND TECHNOLOGY
OCTOBER, 2002
GOOD NEWS

AUTOMOTIVE & MANUFACTURING ENGINEERING TECHNOLOGY

Dr. Paul Sullivan, Assistant Professor, and *Dr. Harry Petersen*, Associate Professor, wrote and presented a paper at the 2002 Design Engineering Technical Conferences and Computers and Information in Engineering Conference held September 29 to October 2 in Montreal Canada. The title of the paper is "Development of a Computer Controlled Valve system for an Internal Combustion Engine".

BIOLOGICAL SCIENCES

Xiong, F.S., *Ruhland, C.T.* and T.A. Day. Effects of solar ultraviolet-B radiation on growth of *Colobanthus quitensis* at Palmer Station, Antarctica. *Global Change Biology* 8: 1146-1155.

Peer-reviewed Publications:

Getsinger, K.D., *J.D. Madsen*, T. Koschnik, and M.D. Netherland. Whole lake fluridone treatments for selective control of Eurasian watermilfoil: I. Application strategy and herbicide residue. *Lake and Reservoir Management*, 18:181-190.

Madsen, J.D., K.D. Getsinger, R.M. Stewart, and C.S. Owens. Whole lake fluridone treatments for selective control of Eurasian watermilfoil. II. Impacts on submersed plant communities. *Lake and Reservoir Management*, 18:191-200.

At the recent 22nd Annual Meeting of the Surgical Infection Society and the 1st Joint International Meeting with the European Surgical Infection Society in Madrid, Spain *Dr. Mark Lyte*, Professor, was awarded the Joseph Susman Memorial Award for the most outstanding research in surgical infectious disease for his work on the formation of bacterial biofilm formation in indwelling medical devices due to inotropic drugs used in the hospital intensive care setting. The infection of patients in the intensive care setting due to bacterial contamination of indwelling medical devices such as intravenous catheters is a huge problem worldwide. Dr. Lyte's award also represented the first time that the award had been given a Ph.D. instead of a surgeon and the first time the decision of the judging committee was unanimous.

CHEMISTRY & GEOLOGY

Dr. Brian Groh, Assistant Professor, co-authored the Prentice Hall Companion Website that accompanies the popular text *Organic Chemistry* by L.G. Wade. The site went live in mid September and may be seen at http://wps.prenhall.com/esm_organic_wade_5

COMPUTER & INFORMATION SCIENCES

Steven, Marcia; Esler, Rosemary; *Asher, Gregg*. Transdermal Fentanyl for the Management of Acute Pancreatitis Pain, *Applied Nursing Research*, Vol. 15, No. 2 (May) 2002. pp. 102-110

A book by CRC Press titled "PC GRAPHICS HANDBOOK", authors Dr. Julio Sanchez, Associate Professor and Maria P. Canton, Assistant Professor, is in production and has been announced in a CRC Press flier. This project has taken over six years to complete and is based on extensive investigation and research. The handbook, which is over 1000 pages and contains several hundred illustrations, is a historic overview and a comprehensive manual on PC graphics hardware and software. The CRC handbooks have traditionally been considered the most authoritative reference books in their field. This handbook, together with Dr. Sanchez' and Ms. Canton's previous titles in computer graphics, establishes the Computer Science Department at MSU as a national leader in graphics technology and programming.

Dr. Julio Sanchez and Ms. Maria P. Canton will be attending the First Annual 2002 P-Trees Mini-Conference at North Dakota State University in Fargo, ND, on October 14, 2002. Ms. Canton will be presenting a paper entitled "P-trees: an information abstraction tool for data mining remotely sensed imagery."

[ELECTRICAL & COMPUTER ENGINEERING AND TECHNOLOGY](#)

The ECET Department has been approved to be part of Altera University Support Program. This grant is valued at \$60,000 and provides software and hardware to support VHDL and FPGA training and research.

Lattice Semiconductor has awarded the ECET Department 50 software licenses to support advanced training in digital design. This award is valued at \$197,000.

Dr. Freddie Hampton, VP of Advanced IC Fabrication at Motorola, will be visiting and lecturing to ECET classes on October 7.

[MATHEMATICS & STATISTICS](#)

Dr. Francis T. Hannick will present a workshop on "Hands-on Experience with Numerous Activities for the Elementary Mathematics Curriculum" at the Fifth Carolinas Mathematics Conference in Charlotte, NC on October 17.

[CSET](#)

The College of Business and the College of Science, Engineering and Technology held a joint Career Fair on Oct. 2, 2002. This collaborative effort attracted over a thousand students from all disciplines throughout the two colleges. Even though on-campus recruiting is down in terms of numbers, there were 67 organizations represented. Reports from both students and employers were quite positive. Several of the larger employers set up interviews for the next day, which has been the practice in the past. The fair itself appears to follow the economy, so some areas were not represented as heavily as last year. However, our students deserve recognition for their preparedness and persistence in using the fair as a networking experience for both permanent employment and internship opportunities.