

**COLLEGE OF SCIENCE, ENGINEERING AND TECHNOLOGY**  
**MARCH 2001**  
**GOOD NEWS**

**BIOLOGICAL SCIENCES**

Drs. Brock McMillan and John Krenz, Assistant Professors in Biological Sciences, have received a small grant for \$4,500 from the Minnesota Department of Natural Resources: McMillan, B.R., and J.D. Krenz. 2001. Effects of agricultural programs on wildlife species. Minnesota Department of Natural Resources. \$4,500.

Dr. Chris Conlin, Associate Professor of Biology, published a paper in the Journal of Bacteriology in the March 2001 issue. The title of the article is "The *apeE* Gene of *Salmonella enterica* Serovar Typhimurium Is Induced by Phosphate Limitation and Regulated by *phoBR*." All of the work on this project was done here at MSU and the co-authors are all students in Dr. Conlin's lab, two graduate students and one undergraduate student.

Dr. John Madsen, Assistant Professor of Biology, published an article as follows: Netherland, M.D., J.D. Skogerboe, C.S. Owens, and J.D. Madsen. 2000. "Influence of water temperature on the efficacy of diquat and endothall versus curlyleaf pondweed." Journal of Aquatic Plant Management 38:25-32. Dr. Madsen was an invited speaker at a technical workshop on the management of Eurasian watermilfoil and curlyleaf pondweed in Minnesota, 15-16 February 2001, Minnesota Department of Natural Resources, St. Paul, MN.

**CHEMISTRY AND GEOLOGY**

Jeff Pribyl, Chair of Chemistry and Geology, was one of three co-hosts for the 2001 SciMath MN Assembly. This broadcast via satellite was sent to 29 regional downlink sites in Minnesota. The MSU site had 48 k-12 teachers and administrators as well as university faculty present. The MSU site had one of the largest groups in attendance of any site. Maria Lopez Freeman, member of the Glenn Commission, gave the keynote address. The other co-hosts were Eric Koser from Mankato West High School and Rosemary Heinitz of Dakota Meadows Middle School.

**COMPUTER AND INFORMATION SCIENCES**

Dr. Mahbubur Rahman Syed, Department of Computer and Information Sciences, sends news of the following two peer reviewed conference

publications: "A Linguistically Sortable Bengali Coding System And Its Application In Spell Checking: A Case Study Of Multilingual Applications" by M. Murshed, Mahbubur Syed, M. Kaykobad and "An Encryption Algorithm for High Throughput Multimedia" by X. Yi, C. H. Tan, C. K. Siew, Mahbubur Syed. The coauthors for the first paper are from Monash University Australia and BUET Bangladesh and the coauthors for the second paper are from Nanyang Technological University, Singapore. These papers have been accepted for presentation at the IRMA 2001 International Conference, 20-23 May 2001, Toronto, Canada and for inclusion in the conference proceedings.

### **MATHEMATICS AND STATISTICS**

Dr. Hossein Shahmohamad, Assistant Professor in Mathematics and Statistics, has had the following publications: 1) "On minimum Flow number of Some Graphs", in Bulletin of Institute of Combinatorics and its Applications, 2001; 2) "Some Flow-Equivalent Planar and Non-planar Graphs", in Journal of Discrete Mathematics, 2001; 3) "On Chromatic and Flow Equivalence of Some Graphs", in Bulletin of Institute of Combinatorics and its Applications, 2001. Dr. Shahmohamad has received the following honors: Elected as an associated fellow of the Institute of Combinatorics and its Applications; made Spring 2000 Faculty honor roll at the University of Pittsburgh.

Dr. Namyong Lee, Assistant Professor of Mathematics and Statistics, was invited to the 5th PIMS (The Pacific Institute for the Mathematical Science) Industrial Problem Workshop this summer. The workshop will be held at the University of Washington, Seattle.

### **CSET**

Our CSET Spring ExSEL Lectureship was a great success again this semester, with an excellent attendance of our faculty, staff and students. Our presenter, Dr. Allan P. Bohlke, a senior chemist at 3M Corporation, gave a lecture entitled "Let Life's Challenges Become the Elements to Your Success". Dr. Bohlke is a 1986 graduate of MSU's Department of Chemistry and Geology. During the day, Dr. Bohlke had an opportunity to tour our facilities and meet with students and faculty from many of our departments. At the end of the day, he was presented with an engraved timepiece as a memento of his participation in this event at his alma mater.