

**COLLEGE OF SCIENCE, ENGINEERING AND TECHNOLOGY  
GOOD NEWS  
JANUARY AND FEBRUARY 2003**

**BIOLOGICAL SCIENCES**

*Dr. Alison Mahoney* completed four taxonomic treatments (morphological descriptions, keys, habitat/range descriptions, etc.) of South African plant species that have naturalized in California for the Flora of North America project. The treatments were accepted and will appear in an upcoming volume of the proposed 27-volume collaborative work.

*Dr. Mahoney* received a Faculty Improvement Grant for and was accepted into a two-month International Diploma Course in Herbarium Techniques at Kew Botanic Gardens near London. The course is restricted to 12 international students every other summer.

A paper has been accepted with revisions by the journal *SIDA: Contributions to Botany*--*Mahoney, A.M.* and R.R. Kowal. Races of the *Packera paupercula* complex (Asteraceae: Senecioneae) in the upper Midwest and southeastern United States.

*Dr. Mahoney's* undergraduate student, Chad Larson, received a Student Scholarship in the amount of \$758.92 for his project, "Chromosome counts for *Packera paupercula* variety *Gypsophila*," with results to be presented at the 2003 URC.

*Dr. John Madsen* co-authored a government report with Getsinger, K.D., R.M. Stewart, *J.D. Madsen*, A.S. Way, C.S. Owens, H.A. Crosson, and A.J. Burns. 2002. Use of whole-lake fluridone treatments to selectively control Eurasian watermilfoil in Burr Pond and Lake Hortonia, Vermont. Technical Report ERDC/EL TR-02-39, U.S. Army Engineer Research and Development Center, Vicksburg, MS.

Thomas Woolf, graduate student in Environmental Science, presented "Biomass and Carbohydrate Allocation in Southern Minnesota Curlyleaf Pondweed (*Potamogeton crispus*) Populations," at the Invasion Biology Research Consortium 2003 Retreat at the University of Minnesota Landscape Arboretum, January 15, 2003.

Ryan Wersal, graduate student in Biological Sciences, was selected by the Minnesota Waterfowl Association as the recipient of their Robert J. Lick Scholarship Award for 2002.

*Krenz, J.D., and P.A. Verrell. 2002. Integrity in the midst of sympatry: Does sexual incompatibility facilitate the coexistence of metamorphic and paedomorphic mole salamanders (Ambystoma talpoideum)? Journal of Zoology 258:435-440.*

On January 10, MSU hosted the annual regional Future Farmers of America Food Science Career event. Eleven teams of four high school students from around the area participated. Teams from Dassel-Cokato and Stillwater placed first and second in a competition that included sensory evaluation, food safety evaluations, and product development. The winning team will represent the area in a national competition. Judges and organizers came from several area businesses and organizations including Hormel, ConAgra, AURI, and Department of Public Health. *Dr. Gregg Marg*, Chair of Biological Sciences, organized the event. *Dr. Dorothy Wrigley*, Professor in Biological Sciences, and *Dr. Joye Bond*, Assistant Professor in Family Consumer Science, were part of the organizing committee.

### **CHEMISTRY AND GEOLOGY**

*Dr. Jeff Pribyl* participated in a National Science Foundation (NSF) review panel January 22-25 in Washington DC. This panel reviewed proposal for the CCLI A&I program.

### **COMPUTER AND INFORMATION SCIENCES**

The following eight papers were accepted for publication and presentation at two upcoming conferences. Five of the eight papers are co-authored with current Computer Science graduate students:

*Case, S.* "Real-Time Asynchronous Communication within Bluetooth Ad Hoc Networks". SouthEastCon 2003. 4-6 April 2003. Ocho Rios, Jamaica.

*Case, S.* "Technical Challenges of an Indoor Positioning Service using Bluetooth Ad Hoc Networks". SouthEastCon 2003. 4-6 April 2003. Ocho Rios, Jamaica.

*Beal, J., & Case, S.,* "Contextual Geolocation: A Specialized Application for Improving Indoor Location Awareness in Wireless Local Area Networks". MICS 2003 Conference. 11-12 April 2003. Duluth, MN.

*Case, S.,* "Supporting Real-Time Asynchronous Communication Within Bluetooth Ad Hoc Networks". MICS 2003 Conference. 11-12 April 2003. Duluth, MN.

*Li, Y., & Case, S.,* "Text-to-Speech Synthesis for Mandarin Chinese". MICS 2003 Conference. 11-12 April 2003. Duluth, MN.

Penugonda, R., & Case, S., "Experience Using SQL Server CE to Support Mobile Collection and Analysis of Glucose Data". MICS 2003 Conference. 11-12 April 2003. Duluth, MN.

Rogness, N., & Case, S., "An Assessment of Design and Implementation Trade-Offs and Their Impact on Mobile Applications". MICS 2003 Conference. 11-12 April 2003. Duluth, MN.

Thapa, K., & Case, S., "An Indoor Positioning Service for Bluetooth Ad Hoc Networks". MICS 2003 Conference. 11-12 April 2003. Duluth, MN.

*Dr. Ann Quade*, Professor, has been selected to present her research, 'Development and Validation of a Computer Science Self-Efficacy Scale for CS0 Courses and Group Analysis of CS0 Student Self-Efficacy', at the faculty poster session during the national Association for Computing Machinery SIGCSE Technical Symposium on Computer Science Education held in Reno, Nevada. She was also selected to chair the Active Learning session at this conference.

Professor Quade also received a grant from the Computer Research Association Committee on the Status of Women in Computer Science and Engineering (CRA-W) and NSF to attend the CRA-W Career Mentoring Workshop, Managing the Academic Career for Faculty Women at Undergraduate Computer Science and Engineering Institutions.

### **MATHEMATICS AND STATISTICS**

*Dr. Mary Ann Lee and Dr. Kil S. Lee*, Professors in the Mathematics and Statistics Department, received an Improving Teacher Quality Program grant of \$44,714 from the U.S. Department of Education through the Minnesota Higher Education Services Office to conduct a <sup>3</sup>Geometry and Measurement Institute for Elementary School Teachers.<sup>2</sup>

*Dr. Francis Hannick*, Mathematics and Statistics, presented a workshop "Hands-on Experience with Numerous Activities for the Elementary Mathematics Curriculum" at the Central Regional Conference of the National Council of Teachers of Mathematics, Indianapolis, Indiana on January 24.