

Currents

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CURRENTS VOLUME 18, ISSUE 18

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To jump to a section, click on the following links:

[Campus Events](#)

[Campus News](#)

[Faculty/Staff News](#)

CAMPUS EVENTS

TWEED MUSEUM EVENTS

The Tweed Museum of Art is proud to announce the upcoming exhibition "Shared Passion: The Richard E. and Dorothy Rawlings Nelson Collection of American Indian Art" beginning July 10. This exhibition features beadwork, basketry and weavings, and a large group of works by contemporary American Indian artists including Frank Big Bear, David Bradley, George Morrison, Norval Morrisseau, Fritz Scholder, and others. This exhibit will be on view through October 14.

A free exhibition reception is planned from 2 - 5 p.m. on Saturday, July 14 at the Tweed Museum of Art. The reception will feature a performance of unique Native American Folk Music by Frank Montano at 3 p.m. Everyone is invited.

Now through July 15, Marcie Macintire and Vernal Bogren Swift are featured as part of the museum's Regional Project Series. This ongoing series is devoted exclusively to the presentation of artists from the region and/or art about the region. Macintire presents her own work and examples of traditional beadwork drawn from area collections. The exhibition also features the batik decorated fabrics of Swift, an artist from Bovey, MN.

GLENSHEEN NEWS

Glensheen Historic Estate offers tours from 9:30 a.m. - 4 p.m. daily during the summer. Tour reservations and further visitor information may be obtained by calling 726-8910 or toll free at 888 454-GLEN, by internet at www.d.umn.edu/glen or by e-mail to glen@d.umn.edu

GOLF CLASSIC

The UMD School of Medicine will be holding their Fifth Annual Golf Classic on Monday, July 23 at the Northland Country Club. The format will be a four-person scramble with a shotgun start at 1 p.m. Dinner and a program will follow. Donations and student sponsorships are welcome and will go towards the Medical Student Research Fund. For registration or donation information, contact Lori Isaacson at 218-726-7572 or lisaacso@d.umn.edu.

SUMMER MINNESOTA REPERTORY THEATRE

The Minnesota Repertory Theatre has two presentations this summer, one of the longest running Broadway smash-hit musicals, "Man of LaMancha" and Neil Simon's biggest comedy hit ever, "The Odd Couple". The season, with rotating shows, starts June 27 and ends August 4. All shows are at 8 p.m. All performances will be in the Mainstage Theatre at the Marshall Performing Arts Center. Reservations can be arranged by calling the Box Office at 726 8561, open Monday through Friday 9 a.m. to 5 p.m.

CAMPUS NEWS

ALWORTH INSTITUTE

This fall share your travelling experiences with your local community by offering an Alworth Institute Brown Bag Lunch. Presentations are offered at noon on Thursdays in a variety of formats which include travelogues, discussions of research, reflections on social, political and economic situations, etc. The Alworth Institute is happy to cover the costs of making slides, transparencies, etc. If you are interested, contact Cindy M. Christian at 726-8616 or alworth@d.umn.edu

UMD FARMERS MARKET

The UMD Farmers Market is open beginning at 2 p.m. every Wednesday under the Dining Center on Oakland Avenue just outside of the Kirby Student Center. The market will run through September or October if there is enough product. If you want to participate as a seller or have questions contact Deb Shubat at 726-7258.

GLENSHEEN ADOPT-A-ROOM

Another chapter of history was written in May at Glensheen as Bill Berke, son of Glensheen's original wallpaper craftsman Louis Berke, hung the first sheet of wallpaper in the North Maid's Room. The event marked the completion of the first room in Glensheen's "Adopt-a-Room" campaign. The restoration is estimated to cost \$300,000. Individuals and businesses wishing to sponsor entire rooms or make a contribution to the program may obtain information by calling 726-8910 during regular business hours.

TOP 10 BEST DEPARTMENT

UMD's Office of Admissions was named one of the 'Top 10 Best Departments to Work For' at the U Staff Day event held in May. The office collaboratively submitted a nomination detailing the office's strengths in areas such as inspiring leadership, promoting a sense of purpose and meaning in work, creating a safe and respectful work environment, etc. The office was recognized with a certificate of achievement which is now displayed in the Admissions office reception area.

NEWS FROM UMD STORES

The summer hours for Campus Books are 8 a.m. - 3 p.m. Monday - Friday.

The summer hours for the Bulldog Shop, Computer Corner and the Marketplace are 9 a.m. - 3 p.m. Monday - Friday. The general book and textbook areas of Campus Books will be closed on June 27 for inventory. Campus Books, Bulldog Shop, Computer Corner and Marketplace will be closed on June 28 and June 29 for inventory. Campus Books is now stocking an exciting new line of decorative papers

and accent pieces! In July, they will be adding more new decorative papers to our collection. For information, call Arlene at 726-8777 or e-mail alodahl.

LABO AWARD RECIPIENTS

Seven Labo Award recipients for the 9th Annual Joel Labovitz Entrepreneurial Success Awards were announced on May 23.

Beth and Immanueli Magomolla, with Magomolla Enterprises, Duluth, received the Emerging Entrepreneur Labo Award, which recognizes an entrepreneur who made the transition from unemployment or underemployment to starting a business.

Dean Poll, with Cabin and Timber, Ely, received the Start-up Entrepreneur Award, which recognizes a business owner who has created and operates a business with growth in revenues and number of employees, profitability and impact on the community or region.

Dave Kasper and Wendy Johnson, with Kasson Manufacturing, Babbitt, received the Mature Entrepreneur Award, which recognizes a business owner who has demonstrated initiative, success and creativity in developing, growing and sustaining a business.

David T. Adams with D.S.R. Sales, Inc., Crane Lake, received the Exploring New Technology

Emerging Regionally Award (ENTER), which recognizes the inventor of technology that shows extraordinary promise in meeting a societal or economic need.

Joe Sertich, president of Northeast Higher Education District, Chisolm, received the David A. Martin Entrepreneurial Leadership Award, which recognizes an individual who has a history of leadership in economic development, who is a leader/innovator in the development, delivery and support of programs that assist entrepreneurs in the region and who is a mentor/role model for small business owners.

Two individuals: Robert S. Mars, Jr., with W.P. and R.S. Mars, and Nick Smith, with Northeast Ventures Corporation, received Lifetime Achievement Awards, which recognize individuals whose lifetime achievements include significant entrepreneurial accomplishments.

CURRENTS SCHEDULE

Currents is printed regularly throughout the school year. The last Summer 2001 issue schedule is: Deadline: Wednesday, July 18; Print Date: Tuesday, July 24. Submit items to Currents via e-mail at currents@d.umn.edu. Communication student Lisa Beelner helped edit this issue of Currents.

Questions? Contact Cheryl Reitan at 726-8996. Currents can be viewed at www.d.umn.edu/currents.

FACULTY/STAFF NEWS

Ron Marchese, professor, Department of Sociology/Anthropology, presented a paper at the 36th Annual Medieval Conference in Kalamazoo, Michigan on the topic "Constantinople: The Missing Link in Understanding Church Textiles." He also presented two papers at the 19th annual Ars Textrina international conference in textile studies in June. Both papers cover research conducted in the Middle East on nomadic material culture, and the religious textiles of the Armenian Apostolic churches of Istanbul. The latter was presented at the general session with his co-investigator Professor Marlene Breu of Western Michigan University.

Neil Storch, professor, Department of History, received the Outstanding Academic Advisor Award at a UMD ceremony in April.

SCHOOL OF MEDICINE NEWS

Annette Boman, assistant professor, Department of Biochemistry & Molecular Biology, Olga Zhandina, research associate, Nicole L. Strand, first-year medical student, and John Redmond, UMD 2000 graduate in Biochemistry & Molecular Biology, published "Yeast GGA proteins interact with GTP-bound ARF and facilitate transport through the late Golgi" in the journal *Yeast*, 18, 1-18 (2001).

Boman has received a grant from the American Heart Association-Northland Affiliate for research entitled "Expression Levels of ARF and GGA Proteins in Post-ischemic Rat Cerebral Cortex." The award of \$80,000 spans two years. Boman recently presented a paper entitled "Yeast Gga Proteins Facilitate Transport through the Late Golgi" at an international conference on Membrane Trafficking. The conference was held in Airlie, VA in March.

M. K. Froberg assistant professor, Department of Pathology & Laboratory Medicine, along with S. Zhou, A. Starkov, R. L. Leino, Senior Research Associate, Department of Anatomy & Cell Biology, and K. B. Wallace, professor, Department of Biochemistry & Molecular Biology, published "Cumulative and irreversible cardiac mitochondrial dysfunction induced by doxorubicin" in *Cancer Research*, 61, 771-777. (2001)

Joseph R. Prohaska, professor, Department of Biochemistry & Molecular Biology, recently presented a plenary lecture on "Functional Genomics of Copper Homeostasis using Transgenic Mice" at a

FASEB summer research conference in Whitefish, Montana. The plenary lecture led to a feature story in the National Academy of Science Proceedings which included a commentary by Prohaska, a cover photo of mice and the following two articles.

Along with I. Hamza, A. Faisst, J. Chen, P. Gruss, and J.D. Gitlin, Prohaska published "The metallochaperone Atox1 plays a critical role in perinatal copper homeostasis" in Proceedings of the National Academy of Science, USA 98, 6848-6852 (2001).

Prohaska, along with J. Lee and D. J. Thiele, published "Essential role for mammalian copper transporter Ctr1 in copper homeostasis and embryonic development" on pages 6842-6847 of the same issue.

Prohaska recently received three years of funding totaling nearly \$500,000 from the National Institute of Child Health and Human Development for his research on nutritional copper status and the nervous system.

He also chaired a symposium on "Copper" at the national Experimental Biology 2001 meeting in Orlando, FL.

Prohaska published "Long-term functional consequences of malnutrition during brain development: Copper" in Nutrition, 16, 502-504 (2000).

Prohaska and W.T. Johnson published "Gender influences the effect of perinatal copper deficiency on cerebellar PKC gamma content" in Biofactors, 11, 163-169 (2000).

Kendall B. Wallace, professor, Department of Biochemistry & Molecular Biology, was recently elected as president of the board of directors of the American Board of Toxicology (ABT). The ABT is an international 2,500 member professional association of practicing toxicologists.

NRRI NEWS

Subhash Basak participated in the conference "Issues and Applications in Toxicology and Risk Assessment" organized jointly by the Food and Drug Administration, Agency for Toxic Substances and Disease Registry, Air Force Research Laboratory, US Army, US EPA and the National Institute of Environmental Health Sciences, in Dayton, OH.

He also gave a presentation "Use of Biodescriptors and Chemodescriptors in Predicting Toxicity of Chemicals: A Mathematical-Cum-Computational Approach," at the Air Force Office of Scientific Research Predictive Toxicology Review and Planning Workshop, in Dayton, OH, recently.

Basak also gave an invited lecture "Quo Vadis QSAR?" at the International Workshop on Molecular Structure-Property Relationships, organized at Wright State University. He then continued with his trip to Detroit, to give presentations and discussions on the role of QSAR in anticancer drug design with colleagues at the Josephine Ford Cancer Center, and Long Island College Hospital, New York.

Brian Gute, Gregory Grunwald, Denise, Mills and Basak published the paper "Molecular Similarity Based Estimation of Properties: A Comparison of Structure Spaces and Property Spaces" in SAR and QSAR in Environmental Research, vol. 11, pp. 363-382, 2001.

Basak and his collaborators published the following papers in the May/June 2001 issue of Journal of Chemical Information and Computer Sciences: "On the Characterization of DNA Primary Sequences by Triplet of Nucleic Acid Bases," M. Randic, X. Guo and Basak, 41, 619-626; "A New Descriptor for Structure-Property and Structure-Activity Correlations," Randic and Basak, 41, 650-656; "QSAR with Few Compounds and Many Features," D. Hawkins, Basak, and X. Shi, 41, 663-670; "Prediction of Mutagenicity of Aromatic and Heteroaromatic Amines from Structure: A Hierarchical QSAR Approach," Basak, D. Mills, A. T. Balaban, and B. Gute, 41, 671-678; "Interpretation of Quantitative Structure-Property and Activity Relationships," A. R. Katritzky, R. Putrukhin, D. Tatham, Basak, E. B. Enfenati, M. Karelson and U. Maran, 41-679-685; "Quantitative Structure Property Relationships (QSPR's) for the Estimation of Vapor Pressure: A Hierarchical Approach Using Mathematical Structural Descriptors," Basak and Mills, 41, 692-701; "Comparison of Neural Net Based QSAR Algorithm (PCANN) with Hologram- and Multiple Linear Regression-Based QSAR Approaches: Application to 1, 4 - Dihydropyridine- Based Calcium Channel Antagonists," V.N. Viswanadhan, Basak and J. N. Weinstein, 41, 505-511; "Characterization of DNA Primary

Sequences Based on the Average Distance Between Bases," M. Randic and Basak, 41, 561-568; "On Structural Interpretation of Several Distance Related Topological Indices," Randic, A. Balaban and Basak, 41, 593-601; and "On Use of the Variable Connectivity Index 1 Pf in QSAR: Toxicity of Aliphatic Ethers," Randic and Basak, 41, 614-618.

Iwao Iwasaki visited Japan recently at the invitation of Tohoku University in Sendai to serve as a member of an external evaluation team for their Earth Engineering curriculum. While in Japan, he also visited Kobe Steel and Kawasaki Steel to discuss the iron nugget project currently under way at the CMRL.

SEA GRANT NEWS

Douglas Jensen, exotic species information center coordinator, co-hosted a new youth program at Munger Landing in May to help combat the spread of an invasive plant, purple loosestrife. Thirty-three youth and adults from several area 4-H clubs, a Boy Scout Troup, and a group from Woodland Hills potted purple loosestrife taken from an infested area. They took the loosestrife home and will care for them in kiddie pools. In June, the plants will be inoculated with beetles. In July, the youth will release the beetles at several purple loosestrife infestations on the St. Louis River and wetlands in other areas.

Jensen gave a presentation "Exotic Species: The St. Louis River's Most Unwanted" to the St. Louis River Citizens Action Committee Board and meeting participants in May in Duluth.

Barb Liukkonen, water resources educator; Cindy Hagley, environmental quality specialist; Scott Robertson, former graphic designer; Debbie Bowen, information specialist; Cory Josephs, student graphic designer; Zhuikov; Sharon Moen, editor; and Teri LeFaive, office assistant, received a gold award for the "Minnesota Shoreland Management Resource Guide" Web site (www.shorelandmanagement.org) in the 2001 national competition by the Association of Natural Resource Extension Professionals.

Carl Richards, director, gave a presentation at the North American Benthological Society Meeting in May in LaCrosse, Wisconsin, entitled "Multi-scale mechanistic indicators of stream integrity using macroinvertebrates." John Hutchens, Jeff Schuldt, Lucinda Johnson, and George Host of NRRI were co authors.

Richards also presented a paper entitled, "The Role of Sea Grant Coastal Research in the Development of Regional Monitoring Efforts" in April at the Coastal Monitoring Symposium in Pensacola, Florida. The paper was coauthored by Leon Cammen of the National Sea Grant Office. Richards was recently awarded a grant from the National Science Foundation entitled, "A Geomorphic Trophic Hypothesis for Arctic Lake Productivity" in conjunction with co-PI's Anne Hershey, Chris Luecke, John O'Brien, and Steve Whalen. The \$1.3 million award will be cover three years of research.

Minnesota Sea Grant staff hosted a learning station on the annual River Quest cruise. They distributed educational publications, and taught 800 sixth-graders from Duluth and Superior about exotic species that live in the Duluth-Superior harbor. The station was hosted by Charlene Johnson, publications assistant; Jeff Gunderson, assistant director; Glenn Kreag, tourism specialist; Moen, Bowen, LeFaive, Josephs, and Zhuikov.

Two University of Minnesota Sea Grant projects have earned awards in national competitions. The "Stop Exotics, Clean Your Boat" video, co-produced by Doug Jensen, Exotic Species Information Center coordinator, and Marie Zhuikov, communications coordinator, earned first place for video productions among Sea Grant programs. The award was presented at Sea Grant Week in Hilton Head, South Carolina in March.

The video also received a bronze award in the 2001 national competition by the Association of Natural Resource Extension Professionals, to be presented in Naples, Florida in June, 2002.

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