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## art EVENTS

### TWEED MUSEUM

Every Tuesday from noon to 4 p.m. through Aug. 11 the Tweed Museum presents Discovery at Tweed when museum staff and UMD student interns publicly inspect and assess extraordinary objects from the museum's collection. The museum's collection, with more than 6,000 artworks, is comprised of truly curious and beautiful objects.

Story Time at Tweed is held every Thursday at 10 am for children ages 3 -5 with a parent or guardian present.

Join the Tweed staff for the Saturday Afternoon Gallery Talk held every Saturday at 2 pm.

Apart at the Seams: Drawings and Paintings by Allen D. (Big Al) Carter will be on display through Aug. 16.

Force of the North: Selections from the Potlatch Collection of Royal Canadian Mounted Police Illustrations, WPA continues through Aug. 30.

Art for Hire: Prints from the Minnesota WPA will be on exhibit through Sept. 6.

Selections from The Richard E. and Dorothy Rawlings Nelson Collection of American Indian Art will be on display through Sept. 13.

For Tweed Museum information, go to <http://www.d.umn.edu/tma>, contact [tma@d.umn.edu](mailto:tma@d.umn.edu), or call 726-8222.

## music and theater EVENTS

The popular musical *Footloose*, centered around the theme of a city boy who comes to a small town where rock music and dancing have been banned, is directed by Ann Bergeron. *Footloose* will be presented at 7:30 pm July 29-31, and Aug. 1 in the Marshall Performing Arts Center. The UMD production takes an international turn when young artists from the Istanbul University State Conservatory join talented UMD theatre students in this rock 'n' roll classic.

*Le Nozze di Figaro* – a comic opera by Mozart will be performed at Glensheen on Mon., Aug. 3; Wed., Aug. 5; Sun., Aug. 9 and Tues., Aug. 11. The famous opera, set in Count Almaviva's castle in Seville in the late 18th Century, is transported to the shores of Lake Superior during this once-in-a-lifetime production. Each act takes place in a different space at Glensheen, the historic Congdon estate, creating an intimate and memorable experience for the audience. Seating is limited, \$50 per person. Call (218) 726-8910 for more details.

For more info visit [www.umdartsfest.com](http://www.umdartsfest.com), call 726-8561 or visit <http://www.tickets.umn.edu> for tickets.

## athletic EVENTS

### FOOTBALL

The UMD Football team will play Football vs. Concordia - St. Paul at 6 pm on Sat., Aug. 29 and Central Washington at 7 pm on Thurs., Sept. 3. All games will be played in Malosky Stadium. The Sept. 3 game will be nationally televised.

### SOCCER

The UMD Women's Soccer team will play Northern Michigan at 1 pm on Sept. 7 in Malosky Stadium.

For more information, contact the UMD Athletic Office at 726-7518 or see <http://www.umbulldogs.com>.

## EVENTS, lectures, workshops

### PLANETARIUM

The Marshall W. Alworth Planetarium holds free public shows every Wed. evening at 7 pm. Private shows are available by appointment for groups of 10 or more. See list of shows at <http://www.d.umn.edu/planet/programs>.

## EVENTS, faculty and staff

### SEARCH COMMITTEE TRAINING

A training session for EOAA Search Committee certification is scheduled for Wednesday, Aug. 5 from 3:15 to 4:15 p.m. Email [cracklif@d.umn.edu](mailto:cracklif@d.umn.edu) to RSVP for this training and to receive final details.

### NSC DEFENSIVE DRIVING COURSE

The Department of Human Resources and the Environmental Health and Safety Office are offering two classes of defensive driving on Wed., Aug. 5, from 5-9 p.m. and Thurs., Aug. 6, from 5-9 p.m. in the Garden Room. The courses are free for UMD faculty and staff. A DDC4 certificate will be issued upon completion of the course. For more information and to register visit <http://www.d.umn.edu/um-dhr/Training/summer2009/driver.htm>.

## special EVENTS

### COLD REGIONS ENGINEERING

The 14th Conference on Cold Regions Engineering will be held in Duluth from Aug. 30 - Sept. 2. This international conference begins with meetings of the Technical Committee on Cold Regions Engineering (TCCRE) on Saturday, Aug. 29 and registration opens on Sunday at

noon. The theme for the conference is Cold Regions Impacts on Research-Design-Construction. The schedule includes a variety of tours, including one of the landmark Aerial Lift Bridge and the Skyline Parkway. For more information visit <http://content.asce.org/conferences/coldregions2009/>

### UMD FARMERS MARKET

The Farmers Market at UMD/Market Day in the Plaza is held every Wed. until Sept. 30 at the Kirby Bus Hub. The market offers local musicians, and artisans and supports local farmers. The musician schedule includes: July 29: Michael Monroe; Aug. 5: Hatti Peterson; Aug. 12: Galen White; Aug. 19: Perfectini; Aug. 26: Kathy McTavish; Sept. 2: Ryan Jordan; Sept. 9: Bill & Kate Isles; Sept. 16: Colleen Myhre; Sept. 23: The Electron; Sept. 30: and Eric Rhame.

Growers can contact Leah Nelson of the Sustainable Farming Association at 940-2138. Artists can contact Teri Glembin at [tglembin@d.umn.edu](mailto:tglembin@d.umn.edu) or 726-6507. For more info and to view a list of vendors, go to: <http://www.d.umn.edu/umdhr/wellness/farmersmarket>. For general info, contact Lita Wallace at [lwallace@d.umn.edu](mailto:lwallace@d.umn.edu) or 726-7822.

### SOCIAL WORK IN RURAL AREAS

The 34th Annual National Institute on Social Work and Human Services in Rural Areas, sponsored for the first time by UMD Continuing Education and the Department of Social Work, will be held on July 27-28 at the Holiday Inn Hotel & Suites in Downtown Duluth. This year's conference theme is Diverse Populations: Challenges for Rural Social Work in the 21st Century. A full conference schedule, including a pre-conference event, Holiday Inn lodging information, and various links to conference features, can be found at: <http://www.d.umn.edu/goto/rsconference>

### ALUMNI NIGHT WITH HUSKIES

Join UMD athletics, alumni and friends for a night of baseball, food, and fun to honor the UMD Bulldog 2009 Football Champions and the WCHA Men's Hockey Champions on Wed. Aug 5. Members of the teams will be in attendance at the baseball game. UMD hockey coach, Scott Sandelin, will throw out the first pitch. Food will be served in the "Kennel Club" starting at 6 p.m. The Huskies battle the Mankato Moondogs at 7 p.m. There is special UMD ticket pricing: \$ 7.50/person includes a general admission ticket and a voucher for a hotdog and soda or \$ 20/person includes a reserved stadium seat and all-you-can-eat-and-drink in the "Kennel Club." Print out your



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own voucher (available on the website <http://www.d.umn.edu/alumni>) and bring it to Wade Stadium on game night when purchasing your tickets or stop by the UMD Athletics Office for a reduced price game voucher to present on game night. Call 218-726-8168. There are no advance reservations necessary for this event.

## PUNT, PASS & KICK COMPETITION

UMD will join the Punt, Pass and Kick Competition, a national event held every year sponsored by the National Football League and the Boys and Girls Club. UMD is hosting the event on Sat., Aug. 8, at Malosky Stadium. The competition is open to boys and girls ages 8-15 and is free for all competitors. Registrations forms and more information can be found at the Facilities Management website [www.d.umn.edu/fm](http://www.d.umn.edu/fm) or picked up in the Facilities Management Office in 241 Darland.

## UMD AT THE STATE FAIR

Join UMD at the Minnesota State Fair Thurs., Aug 27, Fri., Aug. 28, and Sat., Aug. 29. UMD takes the stage on Fri., Aug. 28 with the pepband and a music students performance. Stop by the UMD booth and learn more about UMD's vibrant campus and programs. UMD is inside the UM Crossroads building on Dan Patch Avenue and Underwood Street at the "Connect to the U" booth. Alumni, current students, future students and anyone else who has a UMD connection are welcome to stop by.

Departments and programs who would like to work at the fair booth should contact Cheryl Reitan, University Relations, [creitan@d.umn.edu](mailto:creitan@d.umn.edu), 218-726-8996. The booth is open from 9 am - 9 pm. The Eni-gikendaasoyang Program/CEHSP, the Office of Disability Resources, and admissions staff have already signed up. See: <http://www.d.umn.edu/unirel/homepage/09/statefair09.html>.

## EVENTS, Glensheen

### SUMMER AT GLENSHEEN

Glensheen will offer free Concerts by the Lake on Wednesday nights in July on the lawn beginning at 7:30 pm.

The first tour at Glensheen begins daily at 9:30 am, and last tour begins at 4 pm. For info email [glen@d.umn.edu](mailto:glen@d.umn.edu) or call 726-8910.

The free Festival of Fine Art and Craft will be held on Sat. Aug. 15 from 9 am - 5 pm. The region's finest artists participate in the show named a "best bet" by the *Duluth News Tribune* and attended by thousands every year.

For information call 218-726-8910, 1-888-454-GLEN or e-mail [info@glensheen.org](mailto:info@glensheen.org), or see <http://www.d.umn.edu/glen/>.

## CAMPUS NEWS

### academic NEWS

#### GILMAN INT'L SCHOLARSHIP WINNER

Xiong Vang, a UMD senior statistics and actuarial science major, has been selected to receive a Benjamin A. Gilman International Scholarship for his participation in a study abroad program to Thailand fall semester 2009. The Gilman Scholarship is a congressionally funded program sponsored by the Bureau of Educational and Cultural Affairs at the U.S. Department of State and awarded specifically for study abroad.

#### REDUCING STORMWATER RUNOFF

The construction of stormwater diversions on a street in the Lakeside area of Duluth is almost complete. Over the last several weeks, ditches, rain gardens, rain barrels, infiltration trenches, and lawn aeration were installed to determine if these efforts can reduce the peak water flow to Amity Creek after a storm event. The data will be compared to control neighborhoods where no stormwater protection measures were taken and to data collected last year. The project is a collaborative effort involving the City of Duluth, UMD's Natural Resources Research Institute and Minnesota Sea Grant, with assistance from the South St. Louis County Soil and Water Conservation District, Barr Engineering, the Minnesota Conservation Corps, the Regional Stormwater Protection Team, and volunteers. Funding is from the Minnesota Pollution Control Agency and the U.S. Environmental Protection Agency.

### administrative NEWS

#### HOUSING NEEDED FOR INT'L STUDENTS

This fall, UMD will welcome approximately 50 new graduate students to our campus from Pakistan, India, Sri Lanka, Nepal, China, Iran, Mexico, and Nigeria. The International Student Services Office is looking for temporary housing (two days to two weeks) for these students while they search for permanent housing in Duluth. If you would be willing to host one or more student, contact Trisha O'Keefe at: [pokeefe@d.umn.edu](mailto:pokeefe@d.umn.edu) or call 726-7531.

#### GREEN YOUR OFFICE

UMD's Office of Sustainability is launching a "Green Your Office" program, which gives practical tips about many topics related to sustainability including recycling, energy conservation, and ideas on how to reduce paper use, make better consumer choices, and host green events. Interested in starting discussion in your office? Contact the Office of Sustainability at [sustain@d.umn.edu](mailto:sustain@d.umn.edu) to schedule a presentation, and keep in touch with UMD sustainability news at [www.addinguptozero.com](http://www.addinguptozero.com)

## UMD STORES

UMD Market Day in the Plaza is held every Wednesday thru Sept. 30 from 2-4:30 p.m. and features the farmer's market, live music, and artist's booths. UMD Stores offers specials during the Market Day that include 1/2-price fountain pop and selected hot beverages and 20% off one regularly priced item when using the black UMD reusable bags. (Some exclusions apply.) UMD Stores gives away 20 black UMD reusable bags each Wednesday through the summer. Visit <http://www.umdstores.com> or listen to KUMD 103.3 fm on Tuesday mornings at 8:15 a.m. to find out what's happening at UMD Market Day in the Plaza each week. <http://www.kumd.org>.

UMD Stores Summer Sidewalk Sale will be held through Aug. 2 in Kirby Plaza. Summer Cash for Books textbook buyback will be held through Fri., July 31 from 8 a.m. - 3 p.m. in front of UMD Stores lower level.

Online textbook reservations for Fall semester is now open and online textbook buyback is available at [www.umdstores.com](http://www.umdstores.com).

Jefferson Lines offers daily bus service, year round, from the UMD Campus to the Twin Cities. Purchase tickets at UMD Stores street level.

For store hours, events, and merchandise visit [www.umdstores.com](http://www.umdstores.com).

## faculty/staff NEWS

**Tricia Bunten**, senior development director, Swenson College of Science and Engineering was one of two delegates for the state of Minnesota at the Partnership for Philanthropic Planning annual meeting held in Indianapolis in July. Tricia serves as the secretary for the Minnesota Council on Planned Giving.

**Clay Carter**, assistant professor, and **Brian Kram**, assistant scientist, both of the Department of Biology, along with Wayne Xu from the Minnesota Supercomputing Institute, UMTI, recently published "Uncovering the Arabidopsis thaliana nectary transcriptome: investigation of differential gene expression in floral nectariferous tissues" in the journal *BMC Plant Biology*, 9 (1): 92.

**Tim Craig**, Department of Biology, will be a plenary speaker at the Fifth International Symposium on Gall Inducing Arthropods at Serra do Cipó National Park in Brazil from August 9-14. The title of his talk will be "The evolution of tritrophic interactions involving gall-forming insects." **Craig** will host Takayuki Ohgushi, Yoshino Ando, and Shunsuke Utsumi from Center for Ecological Research, Kyoto University, Japan for two weeks in August. They will be working on an ongoing collaborative research project on plant-insect interactions.

**Douglas Dunham**, professor, Department of Computer Science, gave an invited talk, "How to Create Repeating Hyperbolic Patterns" at the East Coast Computer Algebra Day conference on May 2, at the University of Rhode Island. He also presented a two papers this summer: "Repeating Hyperbolic Pattern Algorithms -- Special Cases" at the DIMACS (center for DIScrete MAThematics and theoretical Computer Science) Workshop at Rutgers University in New Jersey, and "Transforming 'Circle Limit III' Patterns -- First Steps" at ISAMA (International Society of the Arts, Mathematics, and Architecture), at the State University at Albany, Albany, New York. The online version is at: <http://www.isama.org/hyperseeing/09/09b.pdf>.

**Dalibor Froncek**, professor, Department of Mathematics and Statistics, presented a talk "Cyclic decomposition of complete graphs into complete multipartite graphs with one added edge" at the 44th Czech-Slovak Conference on Graph Theory in Terchova, Slovakia.

**John Hiller**, professor, and Sofia Chabysheva, research fellow, both of the Department of Physics, published "Restoration of the chiral limit in Pauli-Villars-regulated light-front QED" in *Physical Review D*, vol. 79, 114017 (2009).

**Zhuangyi Liu**, professor, Department of Mathematics, spoke at a workshop on Partial Differential Equations at Donghua University, Shanghai. He was also an invited speaker at a conference on Control Theory at the Institute of System Science, Chinese Science Academy in Beijing.

**Debao Zhou**, assistant professor, Department of Mechanical and Industrial Engineering, has published a journal paper. Along with Gary McMurray, "Design of a Bending Section Auto-Driven Mechanism for Colonoscope." *Journal of Medical Devices*. Volume 3, Issue 2, 027508, June 2009. He has had two conference papers accepted: Debao Zhou, with Wayne Daley and Gary McMurray, "Kinematics and Verification of a Deboning Device," accepted by the 2009 IEEE International Conference on Mechatronics and Automation (ICMA 2009), Changchun, Jilin, China, August 9 - 12, 2009; and a paper with Matt Leines, Jiann-Shiou Yang, "LQR Control of a Five-Degree-of-Freedom Planar Biped Robot," accepted by the 2009 International Conference on Modeling, Simulation and Visualization Methods (MSV'09).

## NRRI NEWS

**Euan Reavie** has been recognized as one of the Top 10 Most Cited Authors 2006-2009 for his article "Diatom-based weighted-averaging transfer functions for Great Lakes coastal water quality: Relationships to watershed characteristics" from the *Journal of Great Lakes Research* published in Volume 32, Issue 2 (2006), pp. 321-347.

## SEA GRANT NEWS

**John Bilotta** has joined Minnesota Sea Grant as a water resource management and policy extension educator. He works out of the University of Minnesota Extension Regional Center in Farmington, Minn. See [www.seagrant.umn.edu/about/john](http://www.seagrant.umn.edu/about/john)

**Jeff Gunderson** has been tapped as the program's interim director while still serving as fisheries and aquaculture extension educator.

**Cindy Hagley**, environmental quality extension educator, facilitated Lake Superior Basin Watershed Hydrology: Sustainability of North Shore Streams Discussion on July 15 at the Minnesota Pollution Control Agency in Duluth.

**Douglas Jensen**, aquatic invasive species program coordinator, was an invited speaker at a conference in New Jersey, Invasive Species in Coastal Dunes and Maritime Forests in July. Jensen also participated in the a meeting of the Great Lakes Panel on Aquatic Nuisance Species in Grand Island, New York.

**Jesse Schomberg**, coastal communities and land use planning extension educator, presented Using Community Growth Scenarios to Evaluate Potential Water Quality Impacts, a presentation co-produced by Valerie Brady and Gerry Sjerven (with the Natural Resources Research Institute), at Coastal Zone 09 (CZ09) in Boston, Mass.

## MEDICAL SCHOOL-DULUTH NEWS

see next issue

## PHARMACY NEWS

**Ayman Noreddin**, associate professor, presented "Pharmacokinetic and Pharmacodynamic Modeling of Brain Tumor Chemotherapy in a Three-Dimensional Glioblastoma Multfolium Culture" at the 1st Scientific Symposium of the Children's Cancer Hospital Egypt in Cairo in July.

**Randall Seifert**, senior associate dean and professor, was awarded the Harold R. Popp Award at the annual meeting of the Minnesota Pharmacists Association (MPhA). The Popp Award, established by MPhA in 1969 in honor of the late Senator Harold R. Popp, is the highest honor awarded by MPhA. Intended to recognize one pharmacist annually for outstanding services to the profession of pharmacy, Seifert received the award for his efforts to establish Medication Therapy Management (MTM) practices and benefits in the Duluth area.

**Debbie Sisson**, assistant professor, presented two posters at the American Association of Colleges of Pharmacy (AACP) Annual Meeting in Boston in July: "Survey and Implementation of Regional Education Hub Activities" with Meg Little and Dawn Carlson and "Rural Community Interprofessional Experience of Pharmacy and Medical Students" with Ruth Westra (Medical School - Duluth)

**Timothy Stratton**, professor, has been elected president of the Minnesota Rural Health Association for 2009-2010.

## umd COMMUNICATION

### ABOUT CURRENTS:

Questions? Contact Cheryl Reitan at 726-8996. Submit items to *Currents*, by emailing [currents@d.umn.edu](mailto:currents@d.umn.edu). Kristi Louis helped edit this issue of currents. *Currents* can be viewed at [www.d.umn.edu/currents](http://www.d.umn.edu/currents).

The schedule for the next years issuses are:

#### FALL

Deadline: September 2; Print date: September 8

Deadline: September 16; Print date: September 22

Deadline: September 30; Print date: October 6

Deadline: October 14; Print date: October 20

Deadline: October 28; Print date: November 3

Deadline: November 11; Print date: November 17

Deadline: December 2; Print date: December 8

#### SPRING

Deadline: January 20; Print date: January 26

Deadline: February 3; Print date: February 9

Deadline: February 17; Print date: February 23

Deadline: March 3; Print date: March 9

Deadline: March 31; Print date: April 6

Deadline: April 14; Print date: April 20

Deadline: April 28; Print date: May 4

#### SUMMER

Deadline: June 9; Print date: June 15

Deadline: July 21 Print date: July 27

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