

# NDSU

VOLUME 3 ISSUE 12

IT'S HAPPENING AT STATE

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## Three named to president's cabinet

NDSU President Dean L. Bresciani has announced three appointments to the cabinet who will serve during the 2011-12 academic year. Faculty Senate president Gary Totten will represent faculty; Staff Senate president-elect LaDonna DeGeldere will represent staff; and student body president Cam Knutson will represent students.

"I look forward to receiving input from these three important campus leaders," said Bresciani. "They understand and appreciate our vital role as a student-focused, land grant, research institution; and their knowledge of the issues we face will assist in our decision making as NDSU moves forward."

Totten is an associate professor of English, and also served on the cabinet during the past year. He earned his bachelor's and master's

degrees at Brigham Young University and his doctorate in American literature from Ball State University. He joined NDSU in 2004.

DeGeldere, administrative assistant in the Office of Vice President for Student Affairs, came to campus in 2008. A native of Bemidji, Minn., DeGeldere studied manufacturing engineering and received her supervisory leadership diploma through Northwest Technical College. She replaces Vance Olson, past president of Staff Senate, on the cabinet.

Knutson is a senior majoring in zoology/pre-medicine from Bismarck, N.D. He follows Kevin Black as a cabinet member.

## Website provides important flood information

A website that evolved from an NDSU course project is providing important information about the flooding in the Minot, N.D., area.

The site, "Mouse River Flood 2011," allows anyone to report flood-related photos and observations. It came from work in the Comparative Programming Languages computer science course taught by Anne Denton, associate professor of computer science.

The site contains a map of the area, and regularly updated photographs contributed by the public for specific locations in the Minot community.

"It has clearly become 'viral,' and reports being added at an amazing rate," Denton explained, noting the website was broadcast frequently on Minot's KX News during its coverage of the flood.

Paul Loree, a computer science instructor at Minot State University and also a graduate student at NDSU, has taken the lead in adapting the site to Minot conditions. He said the site tries to make information sharing as quick and easy as possible.

"In the last 24 hours, we've had 248,458 hits with an average of 5,176 hits per hour with a maximum of 33,238 hits in an hour," Loree said on June 27.

According to Loree, site visitors can look up an address for the area they want to see or they can create a marker for an address if they have information or a photo regarding that address.

"My family and most of my friends live in the valley and have lost their homes, but so far mine has been safe behind the secondary dike," Loree said. "My hope is this website will reduce the feeling of many people not knowing what is happening around their homes in the flood area."

The site, which also includes links to North Dakota National Guard photos and videos, can be found at <http://mouseriver-flood2011.net/index.php>.

**NDSU** [www.ndsu.edu/ihas](http://www.ndsu.edu/ihas)

### News and events

As information becomes available, news and event updates will be located on the "News and Events" website at [www.ndsu.edu/news](http://www.ndsu.edu/news).

### Deadline set for July 15 It's Happening at State

The next electronic issue of It's Happening at State will be posted July 15 at [www.ndsu.edu/ihas](http://www.ndsu.edu/ihas). Submissions for that issue are due July 12.

### Red River Valley Fair tickets available

The NDSU Human Resources/Payroll Office has tickets for the Red River Valley Fair available to sell to NDSU employees through July 13.

### University closed for holiday

In honor of Independence Day, NDSU will be closed Monday, July 4.

## Counseling Center to host Mental Health First Aid training

The NDSU Counseling Center will host the first-ever training on mental health first aid in the Fargo-Moorhead area. The training will be held in the NDSU Memorial Union, from 8 a.m. to 11 a.m. from July 25-28.

One in four Americans lives with a mental health problem. Yet, many go without treatment. Just as CPR training helps a layperson without medical training assist an individual following a heart attack, Mental Health First Aid training helps a layperson assist someone experiencing a mental health crisis. The National Council on Community Behavioral Healthcare has begun working with communities throughout the nation, including the NDSU Counseling Center, to implement Mental Health First Aid training across the United States. The clinical and qualitative evidence behind the program demonstrates that it helps the public better identify, understand and respond to signs of mental illness, thus improving outcomes for individuals experiencing these illnesses.

The Mental Health First Aid training program is a 12-hour interactive session. Mental Health First Aid certification introduces participants to risk factors and warning signs of mental health problems, builds understanding of their impact and overviews common treatments.

Specifically, participants learn:

- The potential risk factors and warning signs for a range of mental health problems including depression, anxiety/trauma, psychosis and psychotic disorders, eating disorders, substance use disorders and self-injury
- An understanding of the prevalence of mental health disorders in the U.S. and the need for reduced stigma in their communities
- A five-step action plan encompassing the skills, resources and knowledge to assess the situation, to select and implement appropriate interventions and to help the individual in crisis connect with appropriate professional care
- The appropriate professional, peer, social and self-help resources available to help someone with a mental health problem

The training is open to NDSU faculty, staff and students. Registration will be capped at 20 participants and there is a \$20 fee to cover the cost of materials. Additional trainings for the general public will be scheduled during the coming year.

For more information or to register for the training, call the NDSU Counseling Center at 1-7671. For more information, visit [www.mentalhealthfirstaid.org](http://www.mentalhealthfirstaid.org).

## Project gives mathematicians a historical perspective

It's a mathematician's glimpse of the past, and, perhaps, a connection with greatness.

The Mathematics Genealogy Project, a service managed by the NDSU Department of Mathematics in association with the American Mathematical Society, resembles a "family tree." Mathematicians can discover who advised their adviser, who their adviser's adviser's adviser was, and so on back through history.

"When mathematicians start something, they cannot stop," explained Dogan Comez, professor and chair of mathematics. "We like to trace our lineage back to a big name in mathematics."

Comez proudly says his personal history includes David Hilbert, a German mathematician often considered the most influential mathematician of the 19th and early 20th centuries.

The project's database currently contains more than 150,000 records and is continually growing. The website dedicated to the project (<http://genealogy.math.ndsu.nodak.edu>) receives hundreds of hits each day, and a recent mention by Wired.com magazine ([www.wired.com/magazine/tag/mathematics](http://www.wired.com/magazine/tag/mathematics)) has triggered more interest.

"Mathematically, one idea follows another and we like to see where a theory started," Comez said, noting the same reasoning follows when considering the educational lineage of advisers.

"Mathematicians are inherently interested in discovering this genealogy about themselves," he said. "Your Ph.D. adviser's influence is enormous. You usually get your main research from them, and the adviser is the primary guide to solve problems and connect us to others in the field. We revere the individual, just as our adviser did of his or her adviser."

The Mathematics Genealogy Project was the brainchild of Harry Coonce, a former faculty member at Minnesota State University, Mankato, who took a sabbatical at NDSU in the late 1990s and is still an adjunct faculty member here. When he retired in 1999, Coonce spent much of his time gathering data and information, with the aim to form a genealogy tree for all mathematicians. Since 2003, NDSU has housed the project.

It's been incredibly popular among mathematicians. Two NDSU graduate students print out requested posters of tree genealogy diagrams, usually producing 10 or more per week.

Coykendall said the department has produced genealogy diagrams for each of its faculty members. The results have been interesting.

"I'd say the most celebrated mathematician since the 1400s is Carl Gauss (a German mathematician and scientist born in 1777). My lineage comes through him, as does the history of 70 to 75 percent of all mathematicians. So, Dogan and I are related," Coykendall said.

The latest recognition by Wired.com is expected to push the interest to greater heights. Engineers and people in other fields that use mathematics are expected to join in.

"This publicity really is good for us and should help us build the database," Comez said. "It's a fun project, and because there are always new mathematicians coming onto the scene, it will never end."

## Animal sciences associate professor dies



**Berryhill**

David L. "Doc" Berryhill, 67, associate professor of animal sciences, died on June 26. Berryhill earned his bachelor's degree in biology from Simpson College, Indianola, Iowa, in 1966 and his master's degree and doctorate in bacteriology from Iowa State University in 1969 and 1971 respectively.

He joined NDSU in September 1971. He taught courses in bacteriology, microbiology and animal sciences and advised many undergraduate and graduate students. He also held many leadership positions. He served as coordinator of academic programs for veterinary and microbiological sciences (1989-95); director of academic programs for biotechnology (1989-95); interim chair of veterinary and microbiological sciences (1995-2000); director of the Veterinary Diagnostic Services (2000-02); director of general agriculture program (2005-11); director of special programs for the College of Agriculture, Food Systems, and Natural Resources (2002-11); and associate head of animal sciences (2009-11).

Berryhill received numerous honors for teaching and advising, including NDSU Mortar Board Outstanding Academic Adviser, Alpha Zeta Outstanding Educator, Mortar Board Preferred Professor, NDSU Bison Ambassadors Apple Polisher Honoree and was nominated for the College of Agriculture's H. Roald and Janet Lund Excellence in Teaching Award and William J. and Angelyn A. Austin Advising Award.

He served as the adviser for the NDSU Biotechnology Club, NDSU Chess Club and NDSU Volleyball Club.

At the request of the family, no services will be held.

## Part-time Jobs Fair scheduled for September

The NDSU Career Center will sponsor a Part-time Jobs Fair for students Thursday, Sept. 1, from 11 a.m. to 2 p.m. in the Memorial Union Great Plains Ballroom. Departments looking to fill part-time jobs should consider attending this event. Last year, 750 students attended. Participation in the fair is free for on-campus departments. Register [here](#).

The deadline to register for the event is Friday, Aug. 26. For more information, contact Mary Gillen at 1-7109. Job opportunities also can be posted on the Career Center website at [www.ndsu.edu/career/employers](http://www.ndsu.edu/career/employers).

## Transportation students receive scholarships

The Upper Great Plains Transportation Institute awarded five scholarships to outstanding NDSU juniors and seniors with an interest in transportation.

The Paul E. R. Abrahamson Transportation Scholarship in the amount of \$1,500 is awarded to two students who demonstrate interest in the transportation and logistics of agricultural commodities and processed agricultural products. This year's recipients are Steven Firth and Jonathan Roswick, both students in the College of Business.

The Transportation Engineering Scholarship, also \$1,500, is granted to students who have an interest in transportation and display academic excellence. Funding for the scholarship is provided by the Mountain-Plains Consortium through the University Transportation Centers Program of the U.S. Department of Transportation. Recipients of this year's award are Jared Loegering and Kathryn Garceau, both civil engineering students.

The Charles E. Herman Scholarship, in the amount of \$2,000, is presented to a transportation student who demonstrates academic achievement with a preference to women and minorities at NDSU. Funding for the scholarship is provided by the Charles E. Herman Scholarship Endowment Fund. This year's recipient is Kathryn Garceau.

Formal presentation of the awards will take place at the Upper Great Plains Transportation Institute awards banquet in the fall.

## Graduate students to attend Green Chemistry Summer School



*Graduate students Barry Pemberton (left) and Anoklase Ayitou (right) with Associate Professor Sivaguru Jayaraman (middle).*

Graduate students Anoklase Ayitou and Barry Pemberton were selected for the American Chemical Society Summer School on Green Chemistry and Sustainable Energy at McGill University in Montreal, Canada, held in June.

Ayitou and Pemberton work with Sivaguru Jayaraman, associate professor in the Department of Chemistry and Biochemistry. "Both of them are working in the area of green chemistry, and this summer school initiative aims to nurture future leaders in the field of green chemistry," Jayaraman said. The summer program is sponsored by the American Chemical Society Petroleum Research Fund.

## Chemistry graduate student receives fellowships



Ayitou (right) receives an award from GlaxoSmithKline representative John A. Petraglia.

Anoklase Ayitou, a fourth-year chemistry and biochemistry graduate student, recently received two fellowships.

Ayitou received the Carl Storm Underrepresented Minorities Fellowship, which helps eligible minority students, faculty and scientists attend the Gordon Research Conference in Photochemistry scheduled for this summer. The awardees receive \$600 to subsidize the cost to attend the conference. The Carl Storm Underrepresented Minority Fellowship Program was established by the Gordon Research Conference board of trustees to honor Director Emeritus Carl Storm's years of service to the conference and to support his commitment to increasing diversity at the Gordon Research Conferences. Ayitou was selected for the fellowship by organizers of the 2011 Gordon Research Conference.

Ayitou also received the Lendon N. Pridgen, GlaxoSmithKline Fellowship. The award was presented to Ayitou at the 38th annual conference of the National Organization for the Professional Advancement of Black Chemists and Chemical Engineers held April 18-22 in Houston. The fellowship was established in memory of Lendon N. Pridgen, a synthetic organic chemist, to recognize African-American students in their third or fourth year of graduate study and majoring in synthetic organic chemistry. Ayitou's doctoral work involves the use of molecular chirality to control stereoselection in light initiated chemical transformations to generate enantiopure molecular building blocks.

For more information on the National Organization for the Professional Advancement of Black Chemists and Chemical Engineers, visit [http://nobicche.org/images/stories/pdfs/2011\\_NNOL\\_Spring.pdf](http://nobicche.org/images/stories/pdfs/2011_NNOL_Spring.pdf).

## Students named to Summit League All-Academic team

NDSU had 83 student-athletes named to the Summit League Winter/Spring All-Academic team as announced by the league office June 15. The Bison had 46 student-athletes named Distinguished Scholars.

A total of 1,000 student-athletes from baseball, men's and women's basketball, men's and women's golf, softball, men's and women's swimming and diving, men's and women's tennis and

men's and women's track and field have been honored for their academic excellence. Of the 1,000 selections, 425 were recognized as Distinguished Scholars and 183 earned 4.0 grade-point averages.

In order to be selected to the Academic All-Summit League Team, a student-athlete must have a 3.0 or better grade-point average (GPA) in the semester in which they compete and must use a year of eligibility. A student-athlete must have at least a 3.60 GPA to be named a Distinguished Scholar.

To view the NDSU students named to the Summit League All-Academic team and the Distinguished Scholars, visit [www.ndsu.edu/news/view/article/11825](http://www.ndsu.edu/news/view/article/11825).

## National Theta Chi publication features NDSU chapter

Theta Chi fraternity members at NDSU received national recognition for their outstanding volunteerism during Fargo's spring floods by being featured in the fraternity's national alumnus publication, *The Rattle*.

"This is great recognition for these men as they put in so much hard work for the sandbagging efforts each year. Their dedication and passion for service is appreciated by so many in the Fargo/Moorhead community as highlighted in this article. This type of national press is great as it showcases their service efforts for all affiliated with the Theta Chi fraternity to see," said Courtney Barstad, NDSU coordinator of Greek life.

The article, "Fighting Floods in Fargo – When flood waters threaten the City of Fargo, Phi Chapter is there to lend a helping hand" appeared in the Spring 2011 issue and outlines the members' flood efforts since the record 2009 flood.

It started by helping a current Theta Chi member protect his house, and soon extended to assisting strangers throughout the city. "We knew one of our brothers had a house that had damage from the floodwater, so that was a huge incentive for us to go out," Phi Chapter Marshal Cory Loveless said in the article.

City officials quickly recognized the fraternity as a reliable group of volunteers. Fargo Senior City Planner Robert Stein said, "We absolutely rely on volunteer help and we rely on the type of volunteerism that Phi Chapter provides. They're reliable (and) we know they're going to be there because they always are." Fargo Mayor Dennis Walaker also recognized Theta Chi's efforts by presenting the chapter with a decorative sandbag adorned with his and other city officials' signatures.

Theta Chi led all NDSU student groups in the number of hours volunteered in the 2010 flood fight with 384 hours. They volunteered 406 hours during the 2011 flood, the second highest among any NDSU group.

Members of the fraternity recognize their volunteer effort as a way to reach out to the community and be recognized for something other than Greek letters. "Our response is what our fraternity is all about," Loveless said. "Brotherhood and the helping hand. That's what we're proud to be and being part of a volunteer effort is important to us because it's what we believe in."

## Student-athletes make Summit League Commissioner's List

NDSU had 115 athletes in 12 sports make the Summit League's 2010-11 Commissioner's List of Academic Excellence. Overall, a total of 1,077 student-athletes from all 19 league-sponsored sports were honored for their work in the classroom.

NDSU tied with Oakland University, Oral Roberts University and South Dakota State University for second place with 42 percent of student-athletes honored, only behind Centenary College of Louisiana with 44 percent.

The Summit League also recognized Team Academic Achievement Awards in each sport based on percentage of list-eligible student-athletes on the Commissioner's List. The NDSU men's track and field team claimed the Team Academic Achievement Award for the second straight year, grading out to 47 percent.

In order for a student-athlete to be selected to the Commissioner's List of Academic Excellence, he/she must carry a 3.0 or better cumulative grade-point average, achieve sophomore academic standing at the institution, have used a year of eligibility and be on the squad list in the sport in which he/she is nominated. Transfers, graduate students and junior college graduates must have completed one academic year at the nominating institution. True freshmen, redshirt freshmen and first-year transfers are not eligible for the award.

To view NDSU students included on the Commissioner's List of Academic Excellence, click [here](#).

## Students participate in the College National Finals Rodeo



Left to right: Austin Martin, coach Tate Eck, Jordy Rist and James Kapp.

The NDSU Rodeo Team sent three contestants to the 63rd College National Finals Rodeo in Casper, Wyo., held June 12-18.

Students who qualified for events include Austin Martin in bareback riding, Jordy Rist in barrel racing and James Kapp in bull riding. Tate Eck, who is a lecturer in equine studies at NDSU, coached the students.

This is the first time since 1989 that the rodeo team has qualified three individuals at the same time. To qualify for the College National Finals Rodeo, students must finish in the top three at regionals. There are 11 regions; NDSU is part of the Great Plains Region.

While none of the NDSU students advanced to the final short round of this year's national contest, coach Eck said they were outstanding representatives of NDSU and are already looking forward to next year's season.

The College National Finals Rodeo brings together more than 400 student competitors from more than 100 universities. To learn more, visit [www.cnfr.com/about.php](http://www.cnfr.com/about.php).

## Senior Whitney Carlson named to Academic All-America team

NDSU senior Whitney Carlson was named to the 2011 Capital One Women's Track and Field/Cross Country Academic All-America First Team June 23, by a vote of the College Sports Information Directors of America.

Carlson earns her second consecutive first team honor after being named to the third team as a sophomore. She joins Laura Hermanson in 2009 and Sarah Klein in 2005 as first team selections.

The Buchanan, N.D., native has a 4.0 grade-point average in zoology and will be attending dental school at Nebraska in the fall. She won the NCAA Elite 88 Award at the NCAA Championships for having the highest grade-point average of all the competitors. Carlson also was awarded an NCAA Postgraduate Scholarship in May.

Carlson was a first team All-American in the heptathlon after finishing fifth at the NCAA Championships with a school record score of 5,556 points. She also earned second team All-America honors in the long jump after placing ninth with a mark of 20 feet 10 3/4 inches.

The multi-event athlete capped her Summit League career with four titles at the outdoor championships to bring her total to 15 league crowns. Carlson earned both Track Championship MVP and Field Championship MVP for her performance.

During the indoor season, she set school records in the long jump and pentathlon and earned second team All-America honors in both events. She was voted the Summit League Field Athlete of the Year.

To be eligible for Capital One Academic All-America honors, a student-athlete must have a 3.30 or better cumulative grade-point average on a 4.0-point scale, have sophomore athletic standing and be a starter or key reserve for their team.

## NDSU alumnus honored at film and television music awards

Alf Clausen, class of 1963, was honored at the 26th annual American Society of Composers, Authors and Publishers Film and Television Music Awards, June 23, at the Beverly Hilton Hotel in Los Angeles. Clausen received the society's prestigious Golden Note Award, presented to songwriters, composers and artists who have achieved extraordinary career milestones.

Clausen is best known for his scoring and songwriting for the hit television series, "The Simpsons."

## DIVERSITY

## Members sought for equity and diversity council and liaisons

The former Diversity Council has been reconstituted into three new groups – Equity and Diversity Student Ambassadors, Equity and Diversity Advisory Council, and Equity and Diversity Liaisons. The Student Ambassadors have been selected and will begin working this fall. However, nominations are being sought for members for the advisory council and liaisons.

### Equity and Diversity Advisory Council

Administrators, faculty, staff, students, NDSU alumni and Fargo community members are invited to nominate themselves or other individuals for consideration for the council.

The Equity and Diversity Advisory Council will meet once each semester, starting fall 2011, with Vice President of Equity, Diversity and Global Outreach Eveadean Myers and members of her leadership team. The primary roles and responsibilities of this group include providing counsel and advice about relevant policy and program decisions, communicating with respective areas about NDSU diversity initiatives and helping promote and support NDSU diversity, equity and community.

Current NDSU administrators, faculty, staff and students who are interested in becoming a member of the Equity and Diversity Advisory Council are asked to notify vice presidents, department heads or directors to forward their names to the Office of the Vice President for Equity, Diversity and Global Outreach. Individuals who are nominated for consideration will be contacted for additional information.

Nominations are due to the Office of the Vice President for Equity, Diversity and Global Outreach by 4 p.m. on Friday, July 15.

### Equity and Diversity Liaisons

Faculty and staff are invited to submit their names for consideration to join this new initiative to serve as liaisons between all members of the campus community and the vice president for equity, diversity and global outreach. These campus representatives will be trained as facilitators and promoters of a welcoming and diverse campus in their respective colleges and units. Liaisons will begin meeting and training in fall 2011, and will meet monthly with the vice president and members of her leadership team.

The Equity and Diversity Liaisons will serve as an operational group at NDSU as they help to actively address issues related to diversity and equity; serve as “first contact” for individuals within the campus community who have climate issues to bring forward; assist in training, educational and professional development; and serve as resources in their respective areas.

Interested faculty and staff are asked to nominate themselves by submitting a letter that outlines their interest in the initiative and relevant experiences that would make them a successful Equity and Diversity Liaison to the Office of the Vice President for Equity, Diversity and Global Outreach in 205 Old Main or by email at [nds-u-equitydiversity@listserv.nodak.edu](mailto:nds-u-equitydiversity@listserv.nodak.edu). Nominating other individuals is encouraged. The deadline to submit nominations for this group is Friday, July 22, at 4 p.m.

## PEOPLE

## NDSU communicators honored at international meeting

Several staff members from agricultural communication were honored at the international Association for Communication Excellence meeting in Denver, June 17-20.

Bob Bertsch, Becky Koch, Ellen Crawford, Rich Mattern, Bruce Sundeen and Scott Swanson received a gold award in the information technology website category for their flood website, available at [www.ag.ndsu.edu/flood](http://www.ag.ndsu.edu/flood).

Sundeen and Swanson also received a gold award for a diversity video for targeted publics for their project, “Keep Your Food Safe.”

Koch won a bronze award in the diversity targeted publications category for the History Ag Mag, and Sundeen received a bronze award for the video program, “Horticulture for the Home.”

Also, Koch started her term as the organization’s vice president. She’ll serve as president in 2013-14.

## Emeritus lecturer elected president of national music club



Nelson

Carolyn Nelson, BS '58 and NDSU emeritus lecturer of mathematics, was elected president of the National Federation of Music Clubs at their Biennial Convention in McLean, Va., in June.

Nelson is the 32nd president of the club and the second president from North Dakota. Agnes Bishop Jardine was the 13th president from 1933 to 1937.

Nelson previously was the club’s first vice president and vice president for the North Central Region.

The National Federation of Music Clubs, founded in 1898, is the largest philanthropic musical organization in the world, composed of musicians and non-musicians who love and support music. The federation has the distinction of being chartered by the Congress of the United States. Each year, more than \$700,000 is awarded to young people by state and local affiliates of the club for scholarships to attend summer music centers.

Nelson is a member of the Fargo-Moorhead Area Music Club and has served as its president, as well as president of the North Dakota Federation of Music Clubs. She currently is serving in the North Dakota Senate. Previously, she served as assistant minority leader in the state senate and was the first woman to hold that position since North Dakota statehood in 1889.

The FM Area Music Club hosted an open house for Nelson on June 23 at the NDSU Alumni Center.

## Laboratory manager participates in math and science institute



Moore

Jayma Moore, laboratory manager of the Electron Microscopy Center, was an invited instructor for the Math and Science Partnership Grant Institute at Sitting Bull College in Fort Yates, N.D., held June 9-10.

The Institute was formed to improve mathematics and science proficiency at Native American schools in North Dakota. Built on a partnership between Valley City State University, Sitting Bull College and five state K-12 schools, it is funded by a 2010 grant from the North Dakota Department of Public Instruction. The summer professional-development institute was intended to equip K-12 teachers at Native American schools with the latest trends and research in science, technology, engineering and mathematics (STEM) education.

Moore presented "Seeing is Believing," engaging 53 teachers of Native American students in Internet operation of the Microscopy Center's JEOL JSM-6490LV scanning electron microscope. The microscope can be used remotely in any Internet-equipped classroom worldwide to stimulate student interest or support curriculum. Workshop participants investigated 19 samples, ranging from insects to computer chips, including culturally relevant items like a feather (Lakota, wiyaka) and wing scales from a butterfly (kimi mila).

According to Linda Difference Cloud-Jones, education instructor at Sitting Bull College, "This 'participation with the natural world' aspect is one essential difference between Native and Western science ... the mere act of choosing to observe a particular occurrence or object over another is subjective." Native science traditionally has been known for its qualitative methods, in contrast to the strict quantitative analysis of today's Western science.

Other workshop presenters were from the departments of STEM Education and Elementary Education at Valley City State University; the Great Plains STEM Education Center; the Prairie Waters Education and Research Center; Sitting Bull College math, science and elementary education; the North Dakota State College of Science nanoscience program; and private corporations with expertise in Geographic Information Systems and Global Positioning Systems instruction.

The Electron Microscopy Center is an NDSU service facility that annually provides comprehensive imaging and analysis services to more than 100 faculty and student researchers from more than 20 departments and industry.

## Associate professor elected president of scholarly society



Totten

Gary Totten, associate professor of English, recently was elected president of the Edith Wharton Society, an international scholarly society devoted to research on the life and works of the early 20th century American writer Edith Wharton.

The society supports Wharton scholarship in various ways: panel sessions at annual conferences for groups such as the Modern Language Association and American Literature Association; special conferences such as the upcoming Wharton sesquicentennial conference in Florence, Italy, in 2012; an annual research fellowship at Yale's Beinecke Library; an annual essay prize; and a peer-reviewed journal, *The Edith Wharton Review*.

Totten previously served as secretary and vice president of the society, and his term as president will run from 2011-13.

## NDSU biofuels economist appointed to energy panel



Gustafson

The Council on Food, Agricultural and Resource Economics has appointed Cole Gustafson, NDSU biofuels economist, to serve on a Blue Ribbon Panel of Energy Experts.

The goal of the panel is to provide short- and long-term guidance on national energy policy to decision makers. Specific duties of the panel are to provide rapid response consultation on emerging energy policy issues, and serve as a think tank to develop an assessment of the state of overall energy policy and develop action recommendations.

Interaction is expected with entities such as academic, nongovernment, government and industry. An annual report will be prepared to summarize the accomplishments.

## PUBLICATIONS/PRESENTATIONS

### Assistant professor presents at economic theory meeting



Jackson

Jeremy Jackson, assistant professor of agribusiness and applied economics, presented the paper, "Dynamic Technological Innovation With Dual Quality Ladders," at the Association for Public Economic Theory meeting at Indiana University, Bloomington, on June 3.

The paper was co-written with Jason Smith, from the finance department at the University of Kentucky.

The authors developed a dynamic game theoretic model of innovation whereby intellectual property rights allow the product of one firm to be licensed for use in the research activities of another competing firm. Firms have an incentive to sell a license for research use as it increases immediate profits. However, selling the license to a competitor also increases the probability that the competitor will have a technological innovation, which will hurt profitability in the future. Jackson and Smith show that in equilibrium, research licenses will be priced so that firms purchase fewer licenses than what is socially optimal.

## NDSU TRIO directors to present at education conference



Martinez-Freeman

Aida Martinez-Freeman, project director for student support services, and Kris Mickelson, project director for Upward Bound, will present “A TRIO Best Practice: Collaboration Among NDSU TRIO Programs for Effective and Supportive Services for Students” at the Council for Opportunity in Education’s 30th annual conference Sept. 25-28 in Washington, D.C. The conference’s lead topic is America’s Future – The Role of Education in our National Security.



Mickelson

“What an amazing opportunity to share with our TRIO colleagues the experiences and collaborative efforts here at NDSU,” Mickelson said.

“The selection of our proposal by COE serves as a national recognition of NDSU’s TRIO Programs’ accomplishments and continued commitment to

ensuring that each and every student we serve receives the finest possible support services,” Martinez-Freeman said.

Lucy Jones, former Council for Opportunity in Education Board chair, said project collaborations can be powerful tools to enhance the supportive atmosphere crucial to TRIO participants’ success. “The development of a collaboration model at NDSU has not only enhanced each TRIO program but, more importantly, has benefited each program’s participants,” Jones said. “This workshop will help TRIO staff ‘uncover the secrets’ of a successful collaborative model that guides students through a holistic supportive education process, develops a better understanding of participants’ needs and TRIO programs’ missions and enhances the building of partnerships from organizations outside of TRIO and the campus.”

## Faculty member publishes articles about education in Central Asia



Whitsel

In the past year, Christopher Whitsel, assistant professor of sociology, published three articles addressing various aspects of education in Central Asia.

One article tests differences in educational attainment rates among Kazakhstan, Kyrgyzstan, Tajikistan and Uzbekistan. In 1991, the Soviet republics became independent states. In 1994,

Kyrgyzstan, Tajikistan and Uzbekistan decreased compulsory education to ninth grade, but Kazakhstan kept the Soviet era standard requiring secondary education. Educational attainment was higher in Kazakhstan than other republics, although there was divergence in patterns of educational attainment among other republics. This indicated there are other factors at play as well.

Another article, written with a colleague from Afghanistan, compared school enrollment in Tajikistan and Afghanistan. It also presented a new way of modeling the relationship between individual, family and community factors. It argued that community factors shape the influence of individual and family factors on educational participation. It demonstrated ways that school availability, school costs and work opportunities shape individual and family determinants of youth enrollment in Tajikistan and Afghanistan. The authors found there is greater divergence in enrollment based on community characteristics between communities in Afghanistan than in Tajikistan. This could be due to the greater differences in school conditions among in communities in Afghanistan than in Tajikistan, which was part of the former Soviet Union until 1991 and had a highly developed educational system.

The third article, examined corruption in the educational system in Tajikistan. To date, little work has outlined the various illegal costs that students and families encounter in the school system. Whitsel reports parents and students are often asked to contribute funds for the upkeep and daily running of schools. For example, families are asked to purchase heating fuel, chalk and poster board. Some schools have set up a system in which parents contribute monthly to a fund which supplements teacher’s salaries. A few students report they are required to pay money for passing exams.

## Professor publishes research about writers and translators



Maylath

Bruce Maylath, professor of English, published the article, “Field Convergence Between Technical Writers and Technical Translators,” in the June issue of the Institute of Electrical and Electronics Engineers-Transactions in Professional Communication.

The article was co-written with Marusca Gneccchi of the European Commission’s Joint Research Centre, Birthe Moustén of Denmark’s Aarhus University, Federica Scarpa of Italy’s University of Trieste and Sonia Vandepitte of Belgium’s University College Ghent.

It includes results from a first-of-its-kind survey, providing evidence that technical writers and translators in both North America and Europe are seeking cross training in each other’s fields. Results suggest they are motivated by the desire to capture the work, and pay, of the full spectrum of technical documentation. Earlier such work was distinctly divided between writers at the first stage of development and translators at the second.

IEEE-Transactions in Professional Communication is a quarterly journal devoted to applied research on professional communication, including, but not limited to, technical and business communication. It is peer-reviewed by the Professional Communication Society of the Institute of Electrical and Electronics Engineers. For more information about the journal, visit <http://ewh.ieee.org/soc/pcs/?q=node/24>.

## Wu lab to publish paper in scientific online journal

Erxi Wu, assistant professor of pharmaceutical sciences, and Fengfei Wang, research associate of pharmaceutical sciences in the Wu lab, co-wrote the article, "Cambogin is preferentially cytotoxic to cells expressing PDGFR." It will be published by PLoS ONE, an online journal that highlights original research from all disciplines within science and medicine.

According to the authors, platelet-derived growth factor receptors (PDGFRs) are linked to an array of human malignancies, including medulloblastoma, the most common brain tumor affecting children. Although significant progress in medulloblastoma biology and therapeutics has been achieved during the past decades, it remains a formidable challenge to physicians and researchers. Therefore, novel inhibitors targeting platelet-derived growth factor receptors signaling pathway may offer great promise for the treatment of medulloblastoma. In the current study, the researchers found that cambogin is preferentially cytotoxic to cells expressing platelet-derived growth factor receptors and investigated the mechanisms of cambogin in Daoy medulloblastoma cells.

"Cambogin was isolated from *Garcinia cowa*, a tropical subcanopy climax tree indigenous to monsoon rain forests in southwest Asia with cooling and detoxification functions. Our previous study has demonstrated that a xanthone derivate dulxanthone A isolated from *G. Cowa* induces cell cycle arrest and apoptosis via up-regulation of p53 through mitochondrial pathway in HepG2 cells. Here, we show that cambogin triggers significant S phase cell cycle arrest and apoptosis via down regulation of cyclin A and E, and activation of caspases. More importantly, further mechanistic studies demonstrated that cambogin inhibits PDGFR signaling in Daoy and genetically defined mouse embryo fibroblast cell lines. Our findings may provide a novel approach by targeting PDGFR signaling against medulloblastoma," senior author Wu said.

The first author for the paper is Ze Tian, Wu's first postdoctoral research fellow, now a faculty member at Harvard Medical School. Other collaborators include Jie Shen, Peigen Xiao and Junshan Yang from Peking Union Medical College and Hetian Lei, Andrius Kazlauskas and Isaac Kohane from Harvard Medical School.

Part of the research received support from the Centers of Biomedical Research Excellence grant NIH P20 RR020151 from the National Center for Research Resources. Wu was offered a pilot project grant from the NDSU Center for Visual and Cognitive Neuroscience a few months ago. "I was happy to offer Dr. Wu a two-year pilot project based on his outstanding proposal submitted to compete for pilot project grants among NDSU faculty proposing research projects," said Mark McCourt, Dale Hogoboom Professor of Psychology and director of the Center for Visual and Cognitive Neuroscience at NDSU. "Dr. Wu has made very good use of the pilot project funding."

"We are grateful for Dr. McCourt's support, which will allow us to continue this exciting research on targeting diseases in which PDGFR is a therapeutic target such as PVR (proliferative vitreo-retinopathy) and brain tumors," Wu said.

To view the paper, visit [www.plosone.org/article/info%3Adoi%2F10.1371%2Fjournal.pone.0021370](http://www.plosone.org/article/info%3Adoi%2F10.1371%2Fjournal.pone.0021370).

## Animal sciences professor presents in Poland



Grazul-Bilska

Anna Grazul-Bilska, professor of animal sciences, was invited to present six lectures and nine seminars at a workshop at the College of Biological Sciences at the University of Warmia and Mazury in Olsztyn, Poland, from May 25 to June 1.

The program, "Expanding and improving educational offers addressed to persons outside the university and increasing the quality of teaching and competence of the academic community," was carried out under the operational program, "Human Capital," and co-financed by the European Union under the European Social Fund.

### The titles of Grazul-Bilska's lectures included:

- Assisted reproductive technology in human medicine
- Assisted reproductive technology in animal production
- Angiogenesis in the reproductive system
- Developmental programming: Effects of maternal diet on fetal ovarian development
- Gap junction function in the reproductive system
- Role of epigenetics in placental development during early pregnancy

### The titles of her seminars included:

- The system of higher education in the USA: How to get enrolled into an American university (undergraduate, master's, doctoral and/or postgraduate programs)
- Research methods applied in life sciences: Current issues
- Stem cells
- Cloning technology
- Transgenic animals
- Xenotransplantation
- Genome projects
- Assisted reproduction in mammals: Current issues

"During this workshop, I had numerous interactions with faculty and students from the University of Warmia and Mazury and Institute of Animal Reproduction and Food Research of the Polish Academy of Sciences in Olsztyn," Grazul-Bilska said. "I was extremely impressed with the quality of the faculty, students, facilities and equipment, and also research and teaching programs. I believe that such visits add to NDSU's effort to promote international collaboration and exchange."

The University of Warmia and Mazury is located in the northeastern part of Poland. It has more than 1,830 academic faculty and more than 40,000 students, including full-time, part-time, graduate and postgraduate students. To learn more, visit [www.uwm.edu.pl/pl/str.php?b=2](http://www.uwm.edu.pl/pl/str.php?b=2).

## Meat scientists attend national meeting

Several faculty, staff and graduate students from the animal sciences department attended the American Meat Science Association 64th Reciprocal Meat Conference June 19-22 at Kansas State University, Manhattan.

This year, 752 members from the U.S. and abroad attended the conference. NDSU faculty members who attended included Paul Berg, Eric Berg, Kasey Carlin, Robert Maddock and David Newman. Staff and graduate students included Roberta Dahlen, Austen Germolus, Ashley Lepper, Jim Magolski, Rex Sun, Christina Schwartz, Nate Hayes and Quynn Larson. Undergraduate students included Kelsey Phelps and Eric Kleman.

Several students presented research.

### Master's students and their presentations included:

- Schwartz, "Myostatin gene mutations C313Y and Q204X and how they affect beef quality in crossbred heifers."
- Germolus, "Advocating agriculture through the BBQ Boot Camp model." This poster also was presented in the Master's Division competition.
- Hayes, "The effects of inclusion of various components of field peas in the finishing diets of Piedmontese x Angus heifers on growth and carcass characteristics."
- Erin Harris, "Pork quality and carcass composition of market hogs farrowed from gilts provided exercise during gestation."
- Richelle Miller, "Effects of pea chips on pig performance, carcass quality and composition, and palatability of pork."

### Doctoral students and their presentations included:

- Sun, "Predicting beef tenderness using image texture features."
- Lepper, "Effectiveness of oxygen barrier oven bags in low temperature cooking on reduction of warmed over flavor in beef roasts."
- Magolski, "Differences in Minolta color score and beef tenderness associated with feedlot stress and slaughter method." Magolski's poster also was selected for oral presentation in the afternoon reciprocation session and was presented in the doctoral research poster competition.

Carlin, assistant professor, served as moderator for the session, "Residual feed intake: sustainability and meat quality." Germolus, research specialist, was moderator for "High pressure processing: Food safety's next big squeeze."

The American Meat Science Association academic quiz bowl competition included 31 teams from 26 universities. The NDSU team, comprised of Kelsey Phelps, Quynn Larson and Eric Kleman, advanced through seven rounds of play to the championship against the Texas A&M team. NDSU earned Reserve Champion honors after a final round that included several lead changes. The team was coached by graduate student Richelle Miller.

NDSU and the animal sciences department will host the 65th Reciprocal Meat Conference on June 17-20, 2012.

## Human development and education faculty showcase work

Several College of Human Development and Education faculty and students gave presentations or had research published.

Yeong Rhee, associate professor of health, nutrition and exercise sciences, presented "The Relationship Between Body Composition and Risk Factors for Chronic Disease" at the Ninth International Symposium on In Vivo Body Composition Studies, in Hangzhou, China, May 21-24.

Jared Tucker, assistant professor of health, nutrition and exercise sciences, had a paper accepted in *Obesity*, a journal in the field of weight management, with an impact factor around 3.4. The manuscript, "Television Viewing and Obesity in 300 Women: Evaluation of the Pathways of Energy Intake and Physical Activity," provides additional evidence supporting the increased risk of obesity associated with abundant television viewing, and shows that one source of this increased risk is lower levels of physical activity among the frequent television viewers. Results also suggest that differences in diet (energy intake) between frequent and infrequent TV viewers were not a substantial contributor to the differences in obesity between these two groups.

Joel Hektner, associate professor of human development and family sciences, presented the paper "Analytical Challenges in Assessing Adaptive Interventions" at the annual meeting of the Society for Prevention Research in Washington on June 2. The paper was co-written with Susanne Lee at the University of Minnesota. Also, Hektner presented "Supporting Positive School Outcomes at Madison Elementary School in Fargo, N.D." at the Nurtured Heart Approach Global Summit in San Francisco in June with Angela Berge, the NDSU Cass County Extension parenting resource coordinator, and others.

Jill Nelson, associate professor in the School of Education, and her research associates Kim Desmond and Clarrice Rapisarda have had an article published in the most recent issue of *The Clinical Supervisor*. The article, "Student Reflections on the Journey to Being a Supervisor," is based on a qualitative research study they conducted about the experiences of doctoral students as new clinical supervisors.

Marvin D. LeNoue, a doctoral candidate in the School of Education; Tom Hall, assistant professor of educational leadership; and Myron Eighmy, professor in the School of Education doctoral program, had the manuscript, "Adult Education and the Social Media Revolution," published in *Adult Learning*.

David Silkenat, assistant professor in the School of Education, presented a talk, "The Legacy of the War, We Suppose: Suicide in Civil War Era North Carolina," at the North Carolina Civil War 150 Conference at the North Carolina Museum of History in Raleigh, N.C., in May. He also received the Guion Griffis Johnson Visiting Scholar Grant from the Southern Historical Collection at The University of North Carolina at Chapel Hill to do research this summer.

Several health, nutrition and exercise sciences faculty, graduate students and undergraduate students attended the national American College of Sports Medicine convention in Denver in June. Gary Liguori presented a slide presentation, "Changes in Fitness and Power in Army ROTC Cadets."

Liguori also will present the slide presentation “Changes in Fitness and Power in Army ROTC Cadets,” compiled by Liguori, John Schuna, Emily Geffre, Casey Radenic, Denise Ching and Donna Terbizan.

Several faculty also will lead poster presentations. Brandi S. Niemeier, Joel M. Hektner, Donna Terbizan will present “Association Between Young Adults and Their Parents Daily Caloric Intake.” John Schuna, Gary Liguori, Jared Tucker and Arupendra Mozumdar will present “No Difference in Daily Physical Activity Between Reserve Officer Training Corps Cadets and Non-Cadets.” Tucker, Gregory J. Welk and Nicholas Beyler will present “Physical Activity and The Metabolic Syndrome in US Adults: Comparison Between Self-report and Accelerometry.” Trista Manikowske, Natalie Ching, Tucker, Terbizan and Liguori will present “Differences In Fitness and Body Composition Between New and Returning ROTC Cadets.” Bryan Christensen, Sherri Stastny, Sarah Hilgers, Hidafa Okamatsu, Manikowske, Lindsay Youd and Joseph Champa will present “Does Creatine Supplementation Along With a Resistance Training Program Improve Strength in Women?” Sarah Hilgers, Schuna, Manikowske, Tucker, Terbizan, Christensen and Liguori

will present “Validity of U.S. Department of Defense Circumference Equation in Detecting Body Composition Change.” Terbizan, Meredith Wagner, Manikowske, Yeong Rhee, Tucker, Christensen and Ardith Brunt will present “Blood Parameters Comparison Using the Cholestech LDX® System and a Standard Clinical Laboratory Assay Technique.”

Jeremiah Moen, a doctoral graduate, and Bryan Christensen, associate professor of health, nutrition and exercise sciences, presented “Hunting for Health” at the American Alliance for Health, Physical Education, Recreation, and Dance national conference in San Diego. The presentation was based on Moen’s dissertation research, which involved tracking the physical activity of 22 deer hunters in North Dakota with accelerometers. The hunters were found to accumulate almost three times the amount of minimal physical activity recommended by professional organizations. For example, the deer hunters walked an average of more than 12 miles during a weekend of hunting.

## SHORTS AND REMINDERS

### Positions Available

Positions open and screening dates through the Office of Human Resources, SGC, 1919 N. University Drive. Position openings also are available through the NDSU website at [www.ndsu.edu/jobs](http://www.ndsu.edu/jobs).

### Software Engineer

CNSE  
Commensurate w/experience  
Open until filled

### Laboratory Technician

Chemistry and Biochemistry  
\$30,000/year  
Open until filled

### Nurse Practitioner

Student Health Services  
\$46,800+/year  
Open until filled

### Technology Manager – CCAST HPC Systems Computationally Assisted Science and Technology

Commensurate w/experience  
Open until filled

### Physician

Student Health Services  
\$123,760+/year  
Open until filled

### Nutritional Research Specialist/ #00020244

Animal Sciences  
\$19,500+/year  
July 21

### Nutrition Laboratory Technician

Animal Sciences  
\$19,500+/year  
July 21

### Research Specialist/#000205051

Ag and Biosystems Engineering  
\$2,800 min./month  
July 6

### Retention Program Coordinator/ #00027780

Office of Multicultural Programs  
\$28,000+/year  
July 8

### Associate Director – Wellness Center/ #00020857

Wellness Center  
\$44,500+/year  
July 14

### Bison Connection Associate/#00025608

Bison Connection  
\$26,000+/year  
Open until filled

### Nutrition Education Assistant, FNP (Sioux County)

Extension Food and Nutrition  
\$25,900+/year  
Open until filled

### Nutrition Education Assistant, FNP (Fort Berthold)

Extension Food and Nutrition  
\$25,900+/year  
Open until filled

### Ag Research Technician/#00023280

Animal Sciences  
\$31,000+/year  
Open until filled

### Administrative Assistant/#00019606

Psychology  
\$30,000+/year  
July 6

### Custodian (two positions)

Residence Life  
\$19,760+/year  
Open until filled

### Catering/Swing Cook (hours vary depending on business)/#00025303

Dining Services  
\$12.50+/year  
Open until filled

## SHORTS AND REMINDERS CONT.

**PM Cook (11:30 a.m.-8 p.m.)/  
#00028290**  
Dining Services  
\$12.50/hour  
July 5

**AM Cook (6 a.m.-2:30 p.m.)/#00028289**  
Dining Services  
\$12.50/hour  
July 5

**Swing Cook/#00028288**  
Dining Services  
\$12.50/hour  
July 5

**PM Lead Food Service Worker/  
#00028287**  
Dining Services  
\$10+/hour  
July 5

**PM Lead Cook/#00021404**  
Dining Services  
\$13.50/hour  
July 5

**Policy Update**

The following policy has been added or revised recently. To view the complete policy, visit [www.ndsu.nodak.edu/policy](http://www.ndsu.nodak.edu/policy).

**Policy 171: Staff and Faculty Recruitment and Moving Expenses**

Language added to clarify: "Personal travel as described in 4.1 and 4.2 is part of moving expenses and included in the allowable reimbursement for moving expenses."

## CALENDAR

## JUNE

30 **Office of Orientation and Student Success** – Freshman/Family Orientation

30 **U.S. Global Leadership Coalition event, "A Conversation on National and Economic Security"** – 8 a.m. to 9:15 a.m., NDSU Alumni Center. RSVP and register [here](http://www.usglc.org). Visit [www.usglc.org](http://www.usglc.org) or contact Matt Michaelree at [mmichaelree@usglc.org](mailto:mmichaelree@usglc.org) for more information.

30-July 1 **Memorial Union Gallery Exhibit "Reduction A Go-Go" by print-maker Nancy Palmeri** – Visit [mu.ndsu.edu/programs/gallery/exhibits\\_and\\_artists](http://mu.ndsu.edu/programs/gallery/exhibits_and_artists) for more information.

30-July 16 **Governor's School at NDSU**

30-July 22 **Memorial Union Gallery Exhibit, "The Unapologetic Landscape," by photographer Chuck Kimmerle** – For more information, visit [mu.ndsu.edu/programs/gallery/exhibits\\_and\\_artists](http://mu.ndsu.edu/programs/gallery/exhibits_and_artists).

## JULY

1 **Office of Orientation and Student Success** – Freshman/Family Orientation

4 **Independence Day Holiday** – university closed.

7 **Langdon Research Extension Center Canola Field Days** – 8:30 a.m. to 11:30 a.m., Langdon, N.D.

11-14 **Office of Orientation and Student Success** – Freshman/Family Orientation

12 **Hettinger Research Extension Center Crops Tour** – 5 p.m. to 7 pm., Hettinger, N.D.

13 **Dickinson Research Extension Center Field Day** – 8:30 a.m., Dickinson, N.D.

14 **Williston Research Extension Center Field Day** – 8:30 a.m. to 3 p.m., Williston, N.D.

15 **Chemistry and Biochemistry Department Seminar** – "Recent Progress on the Chiral Phosphoric Acid Catalysis," 3 p.m., Dunbar room 152. For more information, contact Wendy Leach at [wendy.leach@ndsu.edu](mailto:wendy.leach@ndsu.edu) or 1-8694.

18 **Casselton Agronomy Seed Farm Field Day** – 5:30 p.m., Casselton, N.D.

19 **Safe Zone Ally Training, Level 1: "Becoming A Safe Zone Ally"** – 10 a.m. to 11:30 a.m., Memorial Union Room of Nations. For more information, contact Kara Gravely-Stack at [kara.gravely-stack@ndsu.edu](mailto:kara.gravely-stack@ndsu.edu).

20 **Safe Zone Ally Training, Level 2: "Gender Identity/Expression"** – 10 a.m. to 11:30 a.m., Memorial Union Room of Nations. For more information, contact Kara Gravely-Stack at [kara.gravely-stack@ndsu.edu](mailto:kara.gravely-stack@ndsu.edu).

19 **Carrington Research Extension Center Field Day** – 9 a.m., Carrington, N.D.

20 **North Central Research Extension Center Field Day** – 9 a.m. to 3:30 p.m., Minot, N.D.

21 **Langdon Research Extension Center Field Day** – 8:30 a.m. to noon, Langdon, N.D.

21 **Team Makers Golf Event** – Grand Forks Country Club, 12:30 p.m. shotgun start.

MORE CAMPUS EVENTS [www.ndsu.edu/eventcalendar](http://www.ndsu.edu/eventcalendar)

**NEXT ISSUE** Publication date: Friday, July 15 | Submissions due: July 12 at noon

**SEND SUBMISSIONS TO THE EDITOR** Linsey Davis | [ndsu.itshappening@ndsu.edu](mailto:ndsu.itshappening@ndsu.edu)  
Library 16, NDSU Dept 6020, PO Box 6050, Fargo, ND 58108-6050 | Voice: 231-8326 | Fax: 231-8969

**TO RECEIVE E-MAIL NOTIFICATION WHEN AN ISSUE IS POSTED ONLINE (NON-NDSU EMPLOYEES)** | [char.goodyear@ndsu.edu](mailto:char.goodyear@ndsu.edu)

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