

# NDSU

VOLUME 2 ISSUE 34

IT'S HAPPENING AT STATE

DECEMBER 8 2010

*Published by the Office of the Vice President for University Relations.*

## Bresciani expands cabinet to include faculty and staff representation



**Bresciani**

NDSU President Dean L. Bresciani announced his plans to add a representative from both the faculty and staff senates to his cabinet. Bresciani asked the presidents of each senate to nominate three members of their respective executive committees for consideration.

“As we start forming the future strategic direction of NDSU, I anticipate an increasing range of critical discussions,” wrote Bresciani in a letter to Amy Rupiper Taggart, president of faculty senate, and Kris Mickelson, president of staff

senate. “I believe that faculty and staff association representation is critical to those discussions and I am ready to add a representative from both the faculty and staff senates.”

Staff and faculty representatives will serve a term of one academic year. This year’s representatives will serve a half-year appointment.

Bresciani asked Rupiper Taggart and Mickelson to forward their nominations by end of the fall term. The new representatives will join the Jan. 13, 2011, cabinet meeting.

## NDSU named for faculty job satisfaction

A report from the Collaborative on Academic Careers in Higher Education listed NDSU among the 32 most successful colleges and universities for making junior faculty feel welcome on campus. Part of the Harvard Graduate School of Education, the collaborative is a consortium of more than 160 colleges, universities and systems across North America committed to making the academic workplace more attractive and equitable for faculty.

“This is another example of the high priority North Dakota State University places on recruiting and promoting faculty of the highest possible caliber,” said President Dean L. Bresciani. “It’s notable to be listed, but also notable is who we are listed with. The latter suggests that the priority we place on faculty development and scholarship runs parallel to many of the most prestigious research universities in the nation.”

NDSU was listed as an exemplar in the category of clarity of institutional expectations for tenure along with North Carolina State University, University of Connecticut, University of Iowa and University of Kansas.

Katie Reindl, assistant professor of biological sciences, feels very welcome at NDSU. “I think that I am in a fantastic department. Biological sciences has been exceptional in welcoming new faculty, especially women faculty,” she said.

Katie Gordon, assistant professor of psychology, also said the report was consistent with her experience and that “there are clear guidelines and expectations” for tenure. “Just interviewing in other institutions, they had more vague tenure criteria,” she said.

The report was based on surveys of 15,000 junior faculty members at 127 member colleges nationwide. The 32 outstanding institutions scored at the top of at least one of eight work-life categories such as tenure practices, clarity of expectations for tenure, and work and home balance.

“This isn’t a beauty contest with dozens of runners-up, nor are we in the rankings business,” explained Kiernan Mathews, director of the collaborative. “Academic leaders at our member institutions request these lists so that they can know to whom to turn about doing something – or several things – right in retaining faculty.”

Other doctoral/research institutions on the list included Auburn University, Brown University, Dartmouth College, Duke University, Lehigh University, North Carolina State University, University of Alabama at Tuscaloosa, University of Chicago, University of Connecticut, University of Illinois at Urbana-Champaign, University of Iowa, University of Kansas, University of Notre Dame, University of North Carolina at Chapel Hill. For more on the report, visit [www.coache.org](http://www.coache.org).

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

### News and events

As information becomes available, news and event updates will be located on the “It’s Happening at State” website [www.ndsu.edu/itshappening](http://www.ndsu.edu/itshappening).

### Newsletter schedule reminder

Due to the upcoming holiday break, the next issue of It’s Happening at State will be published Jan. 12. The submission deadline is noon on Thursday, Jan. 6.

### Holiday hours observed

NDSU semester break/holiday hours will be observed Monday, Dec. 20, through Friday, Jan. 7. Hours will be 7:30 a.m. to 4 p.m. Regular hours will resume Monday, Jan. 10.

### Bison football advances to subdivision quarterfinals

NDSU is scheduled to play Eastern Washington at 2:30 p.m. (CST) Saturday, Dec. 11, in Cheney, Wash. For more information about NDSU athletics, visit [www.gobison.com](http://www.gobison.com).

## NDSU provost to retire from administrative post



*Schnell*

Craig Schnell, NDSU's long-serving provost and vice president of academic affairs, has announced his intention to retire from his administrative responsibilities sometime in the summer of 2011. Schnell will transition to a faculty position in the College of Pharmacy, Nursing, and Allied Sciences.

"Dr. Schnell's two and a half decades of service to NDSU reflect his deeply felt commitment to our university and merit our sincere recognition and appreciation," said President Dean L. Bresciani.

Schnell will remain in his administrative role until the position is filled. A national search for the position will be announced in the near future.

Schnell came to NDSU in August 1985 as dean of Graduate Studies and Research. In 2002, he was named provost and vice president for academic affairs.

Prior to working at NDSU, Schnell served as chair of the Department of Pharmacodynamics and Toxicology in the College of Pharmacy at the University of Nebraska Medical Center in Omaha. He was also the chief of toxicology at the U.S. Army's Fort Baker from 1969 to 1971.

Schnell earned his Bachelor of Science degree in pharmacy at South Dakota State University in 1965 and his master's degree and doctorate in pharmacology/toxicology from Purdue University in 1969.

## Arts, humanities and social sciences dean to step down



*Riley*

Thomas J. Riley, dean of the NDSU College of Arts, Humanities and Social Sciences, will step down from his administrative post in July 2011, and return to the Department of Sociology and Anthropology faculty.

Riley has been dean of the college since 1996, as well as director of the North Dakota Institute for Regional Studies.

"I am pleased that our college has played an important role in recasting NDSU into a 21st century land-grant university that recognizes the primacy of the liberal arts in creating quality of life options in the state and region," said Riley.

Provost Craig Schnell called Riley a great ambassador for the college and university. "Under his leadership, the college has experienced a great deal of progress and growth," said Schnell.

During Riley's tenure, enrollment in the college increased from 924 to more than 1,717, and six new doctoral programs were created. The College of Arts, Humanities and Social Sciences consists of 10 departments: communication; criminal justice and political science; English; history; philosophy and religious studies; emergency management; modern languages; sociology and anthropology; music; theater arts; and visual arts.

## Thanksgiving host family event warms hearts



*Four students from China enjoyed Thanksgiving with Kim Owen's family.*

This year the Division of Equity, Diversity and Global Outreach initiated what they hope will be a new holiday tradition – offering Thanksgiving host families for international students.

The division sought area families who would be willing to open their homes to international students who were far away from theirs so that they could partake in Thanksgiving holiday traditions. More than 70 students and their family members were matched with approximately 30 host families. On all accounts, the project was a tremendous success.

"It was our true pleasure to be part of connecting international students with host families to share this traditional holiday," said Evie Myers, vice president for the Division of Equity, Diversity and Global Outreach. "We hope to make it an annual event."

The feedback from the participants, both the host families and the students, was equally positive.

"Our first meeting was like that of 'old friends.' We had a great time and learned a lot from each other," said Tabitha Thomas, who hosted Wanwei Guan and her mother, Jenny.

Hosts Val and Kevin Kettner also were delighted to welcome Hanzhen Bao and her husband into their home. They offered a traditional menu with turkey, mashed potatoes, wild rice, jellied cranberries, lefse, pumpkin pie and more. It was the first time their guests had sampled many of the foods. "It was a fantastic experience for our family and friends that joined us. Our day was enriched in getting to experience Thanksgiving through the eyes of those who are not familiar with our holiday, and it truly gave the holiday a new meaning for us. We had so much more to be thankful for this year, including this opportunity," Val said.

Kim Owen also hosted four students from China. "The students were so very gracious and enthusiastic about learning more about this American holiday and all the details. They were open to trying everything and were great conversationalists with the rest of our family and friends," Owen said.

"The experience brought a world-wide perspective into our home. We learned not only of each other's country but also about each other's religions," said Tim Mathern, who hosted two international students. One of the students, Shadi Banitaan, said, "It was a great day with them. Thanks a lot for giving us this chance."

Student Zhengping Zhou said, "Thanks to Anita Welch and her family so much. I love them and this Thanksgiving day."

## NDSU embraces LIVE REAL Mentor program

The President's Council on Alcohol and Other Drugs announced more than 1,000 NDSU students, faculty and staff have completed the LIVE REAL Mentor training program since its inception in spring 2010. The LIVE REAL Mentor program is designed to increase the NDSU community's knowledge about the effects of high-risk alcohol and other drug use, how to appropriately refer students to prevention and treatment services, how to communicate consistent messages that promote wellness and safety, and promote a culture of safe and responsible attitudes toward alcohol.

"The LIVE REAL Mentor program is an essential component of our university's plan to decrease high-risk alcohol and other drug use," said Gene Taylor, chair of the President's Council on AOD. "It places the tools for combating high-risk use in the hands of our community members. It is gratifying to see the excitement our community has had for this program. The number of students, faculty and staff who have completed the training really demonstrates how invested our campus is in this important issue."

An additional LIVE REAL Mentor training program is scheduled for Wednesday, Dec. 8, at 4 p.m. in the Memorial Union Hidatsa room. The training session is open to all NDSU students, faculty and staff. For more information regarding the LIVE REAL Mentor program, e-mail [NDSU.Prevention@ndsu.edu](mailto:NDSU.Prevention@ndsu.edu).

## Fargo tops Milken Institute Best-Performing Cities report

Fargo is rated first and Bismarck second in the Milken Institute Best Performing Cities report for 2010 in the category of small cities. The report notes "The big winners in the 2010 small cities index have at least one (or a combination) of these three assets: energy-related natural resources, a major university, and a military base."

View the report, "Best Performing Cities 2010: Where America's Jobs Are Created and Sustained," at [www.milkeninstitute.org/publications/publications taf?function=detail&ID=38801250&cat=resrep](http://www.milkeninstitute.org/publications/publications taf?function=detail&ID=38801250&cat=resrep).

The report's authors note Fargo's agricultural base, along with a growing technology cluster. The report includes mention of Fargo-Moorhead's higher education institutions, including North Dakota State University and notes the region's job creation. According to the report, "From 2004 to 2009 ... the professional, scientific, and technical services sector added more than 1,000 positions."

"Research universities such as NDSU provide science and technology expertise that are key to public-private partnerships and enhance economic opportunities," said Philip Boudjouk, NDSU vice president for research, creative activities and technology transfer. "Most recently for example, Triton Systems located to the NDSU Research and Technology Park based on factors that included NDSU's coatings and electronics expertise."

The Milken Institute is an independent economic think tank whose mission is to improve the lives and economic conditions of diverse populations in the United States and around the world by helping business and public policy leaders identify and implement innovative ideas for creating broad-based prosperity.

The Milken Report comes on the heels of the recently released Beacon Hill Institute Report that placed North Dakota first overall in its annual state competitiveness rating. Based on 43 indicators, that report also ranked North Dakota third in Academic R&D per \$1,000 gross state product and third in science and engineering graduate students per 100,000 inhabitants. Visit [www.beaconhill.org/competitivenesshomepage.html](http://www.beaconhill.org/competitivenesshomepage.html) to view the BHI report.

## NDSU hosts programming contest

The NDSU Department of Computer Science hosted a regional competition site for the Association for Computing Machinery International Collegiate Programming Contest on Nov. 6. Eight teams, consisting of three students each, from NDSU, Minnesota State University Moorhead and Concordia College gathered in the Memorial Union to spend five hours huddled around one computer completing complex, real-world programming problems in a battle of logic, strategy and mental endurance.

The local teams simultaneously competed against 217 other teams at sites throughout the North Central American region including teams from Minnesota, Wisconsin, South Dakota and Manitoba. The top scorers from the regional contests then advance to the world finals to be held in Sharm El Sheikh, Egypt, in February. One of NDSU's teams, Pi Rho, placed 26th in the region. Members included Austen Dicken, Abram Jackson and Davin Loegering.

Jackson, a senior from Valley City, N.D., competes because he enjoys the challenge. "I always enjoy pitting my wits and skills against other students." He was proud of his team's performance. "It was time that a team from NDSU really makes a great showing at a large regional level."

Other NDSU team members included Jeremy Dobler, Nick Larson, Lawrence Anderson, Cesar Ramirez and Ramesh Singh. Richard Rummelt, senior lecturer of computer science, was the coach for the three teams.

## PEOPLE

### Beck earns research award



Beck

Stephenson Beck, assistant professor of communication, received the Stanley L. Saxton Applied Research Award for his research on facilitation and social support in cancer support groups. The Carl Couch Center at the University of Dayton presented the award to Beck and his co-researcher, Joann Keyton, professor at North Carolina State University, at the annual meeting of the National Communication Association.

## Grazul-Bilska to serve on editorial board



Grazul-Bilska

Anna Grazul-Bilska, professor in the animal science department and member of NDSU's Center for Nutrition and Pregnancy, was invited to serve on the editorial board of *Domestic Animal Endocrinology* beginning Jan. 2011. *Domestic Animal Endocrinology* is a specialty journal published by Elsevier with a current five-year ISI impact factor of 2.009. The journal covers the entire spectrum of endocrinology at

the whole animal, organismal, cellular and molecular levels, with a focus on domestic species.

## Heuer appointed to nursing education committee

Loretta Heuer, associate dean of nursing, recently was appointed to the North Dakota Board of Nursing Education Committee. Heuer was among three nurses appointed to the committee by the North Dakota Board of Nursing. Her two-year term began in November and will end October 2012 with an option for reappointment for another two-year term.

As a member of the committee, Heuer will take part in making recommendations related to nursing education programs. The committee also is responsible for promoting innovation in nursing practice and education through regulation and collaboration with stakeholder

### EVENTS

## Oduor to present Science Café

Peter Oduor, assistant professor of geosciences, will present the next Science Café on Dec. 14 from 7 p.m. to 8:30 p.m. at Stoker's Basement in Hotel Donaldson, 101 N. Broadway. His presentation is titled "Emerald Ash Borer: What Can We Do?"



Oduor

The emerald ash borer (EAB) is a very small, metallic, green insect often incorrectly confused as a "fly" rather than a beetle. This destructive beetle will be a significant threat to the 78 million Ash trees growing in North Dakota.

The EAB beetle is not native to the U.S. and hence has no known natural enemies in the U.S. EAB is responsible for the death or decline of tens of millions of Ash trees and an ever-increasing cost in treating infested trees. On average it costs approximately (conservative underestimate) \$700 to remove an infested tree.

The most significant spread of EAB is human-induced when infested firewood is transported. No extensive studies have been done on the environmental impact of treatment options

especially in regions prone to flooding. This talk aims to offer insight on spatial tools available for monitoring an EAB threat.

Contact Keri Drinka at 1-6131, [keri.drinka@ndsu.edu](mailto:keri.drinka@ndsu.edu) or visit [earth.physics.ndsu.nodak.edu](http://earth.physics.ndsu.nodak.edu), for more information.

## McNair Scholars Research Forum scheduled

Kay Modin, director of the McNair Scholars Program, and Anna Sheppard, project coordinator of the McNair Scholars Program, invite the campus community and the public to the annual McNair Scholars Research Forum scheduled for Friday, Dec. 10, from 1 p.m. to 2 p.m. in the Klefstad Room at the NDSU Alumni Center.

### Schedule

1 - 1:30 p.m. Camille Wienhold, "Effects of Maternal Supplementation on the RNA, DNA and Protein Content of Fetal Sheep Livers"

1:30 - 2 p.m. Amber McGuire, "Analysis of Communication Journals"

Each scholar is supported by a faculty and library mentor. The following NDSU faculty serve as mentors for the McNair scholars presenting at the Winter Research Forum: Kimberly Vonnahme, assistant professor of animal and range sciences; Lawrence Reynolds, distinguished professor of animal and range sciences; and Amber Raile, assistant professor of communication. Kathie Richardson and Fran Fischer serve as library mentors.

McNair Scholars are selected from NDSU undergraduates who meet the program criteria and show an interest in research. To be eligible for the program, McNair Scholars need to be income eligible, first-generation college students or from groups traditionally under-represented at the graduate level for doctoral study. The scholars are actively encouraged to pursue careers in college teaching and research on completion of the doctorate.

The McNair Scholars Program is named for Ronald E. McNair, one of the members of the Challenger space shuttle crew. The Office of TRIO Programs in the Division of Student Affairs has administered the program since 1989, when NDSU was selected as one of the 14 original institutions to implement the program.

### RESEARCH

## Pruess receives funds to research biofilm



Pruess

Birgit Pruess, assistant professor of veterinary and microbiological sciences, received an R15 award from the National Institutes of Health for \$358,750 for a research project titled "Temporal and spatial expression of regulators affecting/Escherichia coli/biofilm."

Biofilms are communities of bacteria that stick to surfaces. While they can be beneficial for many purposes, such as the production of biofuels, they also cause many problems in medical contexts. For example, approximately 80 percent of all bacterial infections involve biofilm. Understanding how the expression of genes is regulated in response to signals from the environment is an important prerequisite for the development of novel techniques that either prevent the formation of biofilm or treat an existing condition.

The proposed research will be the investigation of the expression of specific genes throughout the formation of biofilm in a time-course experiment. Genes that will be expressed early can then be used for the development of prevention techniques. In a second experiment, gene expression will be investigated in specific niches of the three-dimensional structure that forms the biofilm. Genes that will be expressed at the outermost edge of the colonies will then be used for the development of treatment techniques. The experiments will be done with fluorescent labeling and fluorescence microscopy. The R15 mechanism covers research grants that involve graduate and undergraduate students.

## Polymer paper one of top 25 articles



Webster

A paper co-written by Dean Webster, professor, and Dipak Chattopadhyay, former postdoctoral associate, both from the Department of Coatings and Polymeric Materials, is listed as one of the "Top 25 Hottest Articles" for the academic year in both the materials science and chemistry categories of ScienceDirect, the online journal publication of Elsevier. The paper, "Thermal

Stability and Flame Retardancy of Polyurethanes," was published in October 2009 in the journal, *Progress in Polymer Science*. It is an extensive review of literature with more than 400 references describing how polyurethanes decompose at high temperatures and how heat stability and flame retardant properties can be improved for this important class of materials. The paper also is listed as one of the top 10 downloaded articles for the journal.

## Undergraduate researchers receive awards

Mohammed Nasrullah, postdoctoral researcher, Pooja Thapliyal and Erica Pfarr, undergraduate students with NDSU's Center for Nanoscale Science and Engineering (CNSE), presented posters at the sixth annual Northwest Regional Undergraduate Affiliate Network Meeting and Undergraduate Research in the Molecular Sciences held Oct. 29-30 at Concordia College, Moorhead, Minn. Undergraduate student Adlina Paramarta gave an oral presentation at the event.

Pooja Thapliyal, senior in biotechnology, received the Outstanding Undergraduate Presentation Travel Award for her poster presentation, "Oxidative cleavage of erucic acid for the synthesis of

brassylic acid." Poster co-authors include Mohammed Nasrullah, Erica Pfarr, Nicholas Dusek, Kristofer Schiele and James Bahr.

Erica Pfarr, junior in biochemistry and molecular biology, presented the poster "Estimation of brassylic acid by gas chromatography-mass spectrometry." Co-authors include Mohammed J. Nasrullah, Pooja Thapliyal, Nicholas Dusek, Kristofer Schiele, Christy Gallagher-Lein and James Bahr. Dusek is a junior studying pharmacy. CNSE co-authors include Schiele, research engineer; Bahr, senior research engineer; and Gallagher-Lein, research specialist.

The research presented at the meeting explores the oxidative cleavage of unsaturated fatty acids derived from oilseeds producing long chain (9, 11 and 13 carbon atoms) dibasic and monobasic acids. These are known commercial feedstocks for the preparation of nylons, polyesters, waxes, surfactants and perfumes. The Combinatorial Materials Research Laboratory at CNSE uses high-throughput methods to speed up the preparation and exploration of fatty acids. Using automated robotic methods, researchers can screen and test a large number of parameters simultaneously. The research was supported by the U.S. Department of Energy, Office of Energy Efficiency and Renewable Energy.

Adlina Paramarta, junior in chemistry working in the Department of Coatings and Polymeric Materials, received honorable mention for her oral presentation, "Synthesis and photopolymerization of highly functional acrylated biobased resins." The work was co-written with Xiao Pan, graduate student in coatings and polymeric materials, and Dean Webster, professor of coatings and polymeric materials.

The meeting was sponsored by The American Society for Biochemistry and Molecular Biology, Red River Valley Section of the American Chemical Society, with support from NDSU, Minnesota State University Moorhead, Concordia College and Aldevron. Attended by more than 50 undergraduates and faculty from Minnesota and North Dakota, the two-day meeting included oral and poster presentations by undergraduate students, keynote lectures and workshops.

## DIVERSITY

### NDSU welcomes delegation from Chinese university

A delegation from China Three Gorges University (CTGU), including their president and three academic deans, visited NDSU on Friday, Nov. 12, to sign a memorandum of understanding and further develop a relationship with NDSU. They discussed forming an undergraduate-plus agreement in computer science and potential other academic areas, including a collaboration to send their faculty to earn doctoral degrees at NDSU.

CTGU is a comprehensive university with enrollment of around 30,000 students. The school is located in Hubei Province and is in the vicinity of the Three Gorges Dam, the largest hydroelectric facility in the world. Jun Kong and Ken Nygard, computer science faculty members, hosted the group.

## Korea delegation visits NDSU

A delegation from Korea Rural Economic Institute visited NDSU on Nov. 3 to discuss collaboration areas and sign a memorandum of understanding. The delegation included President Oh and research fellows Suk-Oh Han and Han-pil Moon. Won Koo, Chamber of Commerce distinguished professor and director of the Center for Agricultural Policy and Trade Studies, was the host. The agreement enables the Center for Agricultural Policy and Trade Studies to conduct more research related to price forecasting with China, India, Korea and other Asian countries.

## NDSU signs agreement with school in Pakistan

Arshad S. Malik, registrar at COMSATS Institute of Information Technology (CIIT) in Pakistan, visited NDSU Nov. 8-10 to sign an agreement sending CIIT faculty to work on doctoral degrees at NDSU. The agreement was initiated by Samee U. Khan, assistant professor of electrical and computer engineering at NDSU. The partnership will initially focus on electrical engineering and computer engineering programs, with possible expansion in other areas including computer science and physics.

CIIT was established in 1999 in Islamabad and since has expanded rapidly growing from 350 students to more than 17,000 with seven campuses around Pakistan. The school has a similar professional linkage with the University of Illinois, Urbana-Champaign.

### PUBLICATIONS/PRESENTATIONS

## Canku presented Prisoner-of-War letters at language summit



Canku examines a Dakota POW letter

Clifford Canku, assistant professor of practice for Dakota Studies, presented "Dakota Prisoner-of-War Letters from the 1862 Dakota Minnesota War" on Nov. 18, at the third annual Lakota/Dakota/Nakota Language Summit in Rapid City, S.D. The presentation highlighted the translation project currently underway at NDSU and jointly funded by NDSU's Gunlogson Fund and a grant from the Shakopee Mdewakanton Dakota Tribe in Minnesota.

Written in the POWs' native Dakota language, the letters reveal conditions at the prison camp at Fort McClellan, outside Davenport, Iowa; descriptions of what happened during the war; and speculation about what might happen to the POWs after they learned that President Abraham Lincoln, who had commuted their initial sentences of capital punishment, had been assassinated.

The translations from Dakota to English are being done by Canku and Rev. Michael Simon, both enrolled members of the Sisseton Wahpeton Oyate in North Dakota/South Dakota, and are being edited by John Peacock, professor of language, literature and culture at Maryland Institute College of Art, Baltimore, and an enrolled member of the Spirit Lake Oyate in North Dakota.

Canku and Peacock also presented "Teaching Dakota Language at the College Level" the following day. This year's Language Summit drew more than 600 participants from 40 tribes across the U.S. and Canada, plus one Maori guest speaker from New Zealand.

## Heuer publishes paper



Heuer

Loretta Heuer, associate dean of nursing, co-wrote a commissioned paper, "Nursing Innovations: The Future of Chronic Disease Management," in The Institute of Medicine (IOM) and the Robert Wood Johnson Foundation landmark report, "The Future of Nursing: Leading Change, Advancing Health." In the paper, Heuer advocates for nurse-led initiatives for

future management of chronic disease especially with rural or vulnerable populations.

This IOM report is a thorough examination of the nursing workforce and outlines four overarching messages and eight evidence-based recommendations. The recommendations are intended to support efforts to improve the health of the U.S. population through contributions nurses can make to the delivery of care.

The eight recommendations offered in the report are centered on four main issues:

1. Nurses should practice to the full extent of their education and training.
2. Nurses should achieve higher levels of education and training through an improved education system that promotes seamless academic progression.
3. Nurses should be full partners with physicians and other health professionals in redesigning health care in the U.S.
4. Effective workforce planning and policymaking require better data collection and information infrastructure.

The report is designed to serve as a framework for changes in the nursing profession and the health care delivery system. These nurse-led solutions are directed to individual policymakers, national state and local government leaders, payers, health care researchers, executives and professionals – including nurses and others – and larger groups such as licensing bodies, education institutions, and philanthropic and advocacy organizations, especially those advocating for consumers. For a copy of the report, visit: [www.iom.edu/Reports/2010/The-Future-of-Nursing-Leading-Change-Advancing-Health.aspx](http://www.iom.edu/Reports/2010/The-Future-of-Nursing-Leading-Change-Advancing-Health.aspx).

## Wu to publish article in The Journal of Immunology



Wu

Erxi Wu, assistant professor of pharmaceutical sciences, co-wrote the article, "Target of the CXCR4-CXCL12 axis mobilizes autologous hematopoietic stem cells and prolongs islet allograft survival via PD-L1-mediated immunoregulation," which will be published by The Journal of Immunology.

According to the authors, hematopoietic stem cells (HSCs) are reported to have profound immunomodulatory effects, promoting their use in the treatment of allograft rejection. However, the immunoregulatory properties of HSCs and their importance in organ transplantation remain to be explored.

This study, led by collaborator Dr. Paolo Fiorina from Children's Hospital Boston, presents evidence demonstrating that targeting the CXCR4-CXCL12 axis mobilizes autologous HSCs and promotes long-term survival of islet allografts.

"This study aimed to target the CXCR4-CXCL12 axis by blocking the CXCR4 receptor with a novel CXCR4 antagonist to mobilize HSCs in a murine model of islet transplantation. The approach used in the study could have major clinical applications, given that CXCR4 antagonists (i.e. Mozobil/Plexifor) currently are under investigation in a phase III trial to improve engraftment in bone marrow-transplanted patients," Wu said.

The Journal of Immunology is published by The American Association of Immunologists and is cited more than any other immunology journal. It ranks first among all publications focused on immunology in terms of eigenfactor and ranks 18th among all publications focused on immunology in terms of impact factor. Visit [www.jimmunol.org/site/misc/infoforauthor.xhtml#journalfacts](http://www.jimmunol.org/site/misc/infoforauthor.xhtml#journalfacts), for these figures and additional information.

Wu joined the pharmaceutical sciences department at NDSU in December 2008. Prior to joining NDSU, he was a faculty member at Children's Hospital Boston, Harvard Medical School.

## Faculty and student present at Geological Society meeting

Geosciences faculty members Bernhardt Saini-Eidukat and Ken Lepper and undergraduate student Ashley Breiland presented research at the annual meeting of the Geological Society of America held Oct. 31 to Nov. 3 in Denver.

Lepper, associate professor of geosciences, co-chaired a technical session on the applications of optical dating in process geomorphological studies and presented the paper, "Water, wind, and gravity: Navigating the complexities of dating alluvial fan deposits with OSL techniques." Saini-Eidukat, associate professor and chair of geosciences, presented work conducted in conjunction with graduate student Jason Triplett to characterize erionite, a potentially hazardous mineral found in North Dakota. Their poster was titled "Microprobe analysis of erionite, Killdeer Mountains, North Dakota."

Breiland presented "New insights into the age and geological context of the Walhalla North Dakota mammoth," a project mentored by Lepper and supported by a Robert Noyce summer STEM internship. "This project has allowed Ashley to participate in the full process of scientific inquiry from literature and archival research through fieldwork and lab work on to interpretation and ultimately presenting the results to scientific peers," Lepper said. "Ashley did a great job at the meeting and many colleagues who viewed the poster were surprised to learn that she was an undergraduate."

## Graduate student presents

Yan Heng, NDSU graduate student of agribusiness and applied economics, recently presented a paper at the Missouri Valley Economic Association annual meeting in St. Louis. Heng's paper, "Accounting for Greenhouse Gas Emissions in Trucking Production," was co-written with Siew Hoon Lim, assistant professor of economics. Heng also attended sessions on applied macroeconomics, global economics, health economics and the economics of water – topics she hopes to eventually apply to her own work. Heng is pursuing a master's degree.

### SHORTS & 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).

#### Graphic Artist

Distance and Continuing Education  
\$36,000+/year  
Dec. 15

#### Research Specialist/#00027300

Plant Sciences  
\$35,000+/year  
Jan. 3

#### Senior Technical Services

##### Librarian/#00023136

Library  
\$65,000+/year  
Open until filled

##### Agricultural Technician-Williston, N.D.

##### Williston Research Extension Center

\$28,000+/year  
Open until filled

##### Ag Research Technician/#00023280

Animal Sciences  
\$30,000+/year  
Open until filled

#### Custodian

Facilities Management  
(4 a.m.-12:30 p.m.; 5 a.m.-1:30 p.m.)  
\$19,760+/year  
Dec. 10

#### Policy Updates

The following policies have recently been added or revised. To see the complete policy, go to [www.ndsu.nodak.edu/policy](http://www.ndsu.nodak.edu/policy).

#### Policy 190: Employee Responsibility and Activities: Intellectual Property

Modifications include: Terms added that previously had been in other areas of 190; rearranged language for easier reading; Plant Variety Protection (PVP) was retained as a subpart to Section 4 and Student Work was expanded to provide greater detail on student inventions.

University Relations  
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NDSU Dept 6020, PO Box 6050  
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## CALENDAR

7 **ECS Green Bag Lunch** – Panel Discussion, “Searching/Interviewing for an Academic Position,” 12:30 p.m., Memorial Union Hidatsa room

8 **LIVE Real Mentor Training** – 4 p.m. to 5 p.m., Memorial Union Hidatsa room

9 **“Recruiting and Retaining Faculty of Color: Strategies, Roadblocks, and Incentives Webinarz”** – 1 p.m. to 2 p.m., EML room 183, Marybeth Gasman, associate professor of higher education at the University of Pennsylvania, will present.

10 **Tapestry of Diverse Talents induction ceremony** – noon, Century Theater. For more information, contact Moga Kareem at [Moga.Kareem@ndsu.edu](mailto:Moga.Kareem@ndsu.edu) or 1-7350.

10 **Animal Sciences Graduate Seminar** – Megan Van Emon, graduate student in animal sciences, will present “The effects of maternal metabolizable protein supplementation during the last 50 days of gestation on ewe and offspring performance,” 3 p.m. to 4 p.m., Hultz Hall room 104.

11 **Little Country Theatre Musical Theatre Troupe Performance** – 7:30 p.m. to 9:30 p.m., Askanase Auditorium

12 **NDSU Concert Choir and Baroque Festival Orchestra present Handel’s Messiah** – 2 p.m. to 4 p.m., Festival Concert Hall

13-17 **Finals Week**

14 **ECS Green Bag Lunch** – Sam Jenkins, “Mapping North Dakota’s Forests: Remote Sensing and Geographic Information Systems as Tools for Species Inventory and Management Decisions,” 12:30 p.m., Memorial Union Room of Nations

14 **Science Café** – Peter Oduor, assistant professor of geosciences, “Emerald Ash Borer: What Can We do?” 7 p.m. to 8 p.m., Stoker’s Basement, Hotel Donaldson, 101 N. Broadway

15 **Retirement reception for Jay Leitch, distinguished professor in the School of Natural Resource Sciences and emeritus dean in the College of Business Administration** – 10 a.m. to 11:30 a.m., Memorial Union Arikara room

17 **Winter Commencement** – 4 p.m., Fargodome

17 **Residence Halls close**, 6 p.m.

20-Jan. 7 **Holiday hours observed** – Office hours will be 7:30 a.m. to 4 p.m. Monday to Friday.

24 **Christmas Day holiday** – NDSU will be closed.

31 **New Year’s Day holiday** – NDSU will be closed.

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

**NEXT ISSUE** Publication date: Wednesday, January 12 | Submissions due: noon January 6

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