

# NDSU

VOLUME 4 ISSUE 2

IT'S HAPPENING AT STATE

JANUARY 31 2012

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

## Interim vice president for information technology named



**Wallman**

Marc Wallman has been named interim vice president for information technology at NDSU, effective Feb. 1, as the search continues to fill the position permanently. He is assistant vice president of enterprise and computing infrastructure in information technology at NDSU.

As interim vice president, Wallman will be responsible for overseeing the information technology division, working with centralized and departmental information technology, and assisting university administration with technology issues.

"I am very excited to work with the provost during this transition period and serve the information technology division and university," Wallman said.

"I am delighted to have someone with Marc's capabilities and professional stature take on this role and look forward to working with him as the search process continues," said Provost Bruce Rafert.

Wallman joined NDSU's information technology division in 2002 as a senior systems administrator. In 2006, he became the director of information technology infrastructure services. In 2008, he also assumed the role of assistant vice president for enterprise computing and infrastructure. Before joining NDSU, Wallman worked in the central information technology department at the University of California at Berkeley.

Wallman has been active in numerous regional and national professional organizations. He participates in the Educause Advanced Core Technologies Initiative Optimizing Computing Infrastructure Working Group and the Northern Tier Network Consortium Steering Committee.

Wallman earned a bachelor's degree in physics from Luther College in Decorah, Iowa, a master's degree in computer science from NDSU and a master's degree in theology from Luther Seminary in St. Paul, Minn.

## NDSU offers Global Food Systems Study Abroad Program

Today's students involved in agriculture and business need a deep understanding of global factors affecting the world's food supply, including production, processing, marketing and increased demand for agricultural goods.

The NDSU animal sciences department, through the university's College of Agriculture, Food Systems, and Natural Resources, has developed the Global Food Systems Study Abroad Program.

"It will help develop world-class graduates ready to take on the global challenges affecting our future," said Carl Dahlen, an assistant professor in the animal sciences department.

The first program will be a 15-day trip to China in late May and early June.

"Our destination will change annually, giving each group of students a unique insight into regional factors that affect agriculture in different parts of the world," said animal sciences department assistant professor David Newman.

The faculty-led program focuses specifically on agriculture and food systems, but is open to all NDSU students.

"China was chosen as our first destination because of the major influence the country has on the global economy, which can be traced to our local producers and commodity markets," Dahlen said. "Furthermore, this destination was chosen to expose students to the sheer complexity and size of China's agricultural business environment. Although roughly the same size as the U.S. in terms of land mass, China has four times as many people.

*Continued...*

**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 Feb. 15 It's Happening at State

The next electronic issue of It's Happening at State will be posted Feb. 15 at [www.ndsu.edu/ihas](http://www.ndsu.edu/ihas). Submissions for that issue are due at noon on Feb. 10.

### Online HR/Payroll newsletter available

The latest edition of the HR/Payroll newsletter is available at [www.ndsu.edu/fileadmin/hr/newsletter/newsletter.pdf](http://www.ndsu.edu/fileadmin/hr/newsletter/newsletter.pdf).

Students will follow the commercial production of animals from birth to growing, feeding and sale facilities. The students also will visit commodity markets, study the intricacies of marketing options producers have for their goods, visit meat processing facilities and study processing methods and the movement of meat from processing facilities to domestic retail or export markets.

Students will visit the Chinese Agricultural University to learn how the university and political system in China interact with and influence its domestic agriculture sector. They'll also visit U.S. corporate and trade offices in China to learn about the global impact of Chinese markets, including imports and exports and the traceability of goods and services back to North Dakota and the surrounding region.

The program also includes stops at historical landmarks in Beijing, Xi'an, Shanghai and Hangzhou, including the Forbidden City, the Great Wall and the Terracotta Warriors.

"The logistics of agricultural production, product movement and feeding a population of 1.3 billion is unfathomable in the minds of many people," Newman says. "We feel that the opportunity to explore this diverse, dynamic environment would heighten student awareness of the global economy, open minds to alternative ways of thinking and break down barriers unnecessarily imposed by the mainstream U.S. production systems. In other words, this type of program will help our students understand the need for change, and that they will be responsible for maintaining our competitive position as a global leader in supplying a safe, abundant food supply."

Registration for the program will be open through Feb. 14. For more information, contact Dahlen at [carl.dahlen@ndsu.edu](mailto:carl.dahlen@ndsu.edu) or 1-5588 or Newman at [david.newman@ndsu.edu](mailto:david.newman@ndsu.edu) or 1-7366.

## NDSU to participate in national transportation center grants

NDSU is a part of two U.S. Department of Transportation competitive grants awarded this month.

The grants, each for about \$3.5 million, were among only 22 awarded across the country in the University Transportation Centers Program administered by the DOT's Research and Innovative Technology Administration. Funding from the grants will support work at NDSU's Upper Great Plains Transportation Institute.

"These grants represent significant support for our work at the Transportation Institute," said Denver Tolliver, the institute's associate director. "With the high expectations that come with these awards, there is also a recognition that the work we do at NDSU and with our collaborators has established a foundation for future success."

"Efficient and safe mobility is critical to North Dakota and the region," NDSU Provost Bruce Rafert said. "As NDSU continues to build its capacity for high-quality teaching, research and outreach, transportation will continue to be an important part of our overall program."

One grant is for an NDSU-led collaborative program called the Mountain-Plains Consortium involving eight universities across the Upper Great Plains and Intermountain West. Efforts will

range from development of techniques to extend the life of bridges to improved transportation planning for Indian reservations to improved road safety. Partners with NDSU include Colorado State University, South Dakota State University, University of Colorado-Denver, University of Denver, University of Utah, University of Wyoming and Utah State University. NDSU's share will be about \$1.3 million.

The second grant was one of only two awarded nationally to focus specifically on public transportation. NDSU is a partner with the University of Illinois at Chicago and Florida International University in Miami. The University of South Florida in Tampa will lead the effort. The Small Urban and Rural Transit Center, a part of the Upper Great Plains Transportation Institute at NDSU, will provide expertise in rural and small urban transportation. NDSU will receive about \$700,000 from the grant.

NDSU has led the Mountain-Plains Consortium since 1988, successfully competing three times since then for the designation as a federally funded University Transportation Center. The program has generated a library of more than 200 research publications and has helped establish the successful transportation and logistics graduate program at NDSU. The consortium also has established itself as a leader in using technology for training and outreach.

"Each of the participating universities has key strengths and programs. The consortium will combine them into a comprehensive and coordinated program that addresses key transportation issues in the region," Tolliver said. The consortium has on-going programs in several areas including transportation and sustainable energy development, bridge monitoring and performance, tribal transportation planning, transit oriented development and urban sustainability, workforce skill development and development of online courses and training.

The Small Urban and Rural Transit Center was established at NDSU in 2002 and has developed nationally recognized programs in rural and small urban transit. Researchers have conducted unique research on transit coordination, mobility needs of elderly in rural areas, use of technology by rural small transit agencies and other topics. Training and outreach by center staff include topics as diverse as transit agency management, tribal transit management, risk management and customer service with staff members conducting nearly 30 training courses in 17 different states during the past year.

"NDSU's participation in this program will bring a rural or small community focus," noted Jill Hough, director of the Small Urban and Rural Transit Center. "We will also gain ideas from our partners that may be transferable to the smaller transit providers that we serve. Each of the four partner universities brings unique strengths and accomplishments to this consortium, but by working together we will enhance our overall collective contribution to the transit industry."

For more information on the grants, contact Tom Jirik, communications coordinator for the Upper Great Plains Transportation Institute, at 1-9629 or [thomas.jirik@ndsu.edu](mailto:thomas.jirik@ndsu.edu).

## Coatings and polymeric materials department chair named



Webster

Dean Webster has been named chair of the Department of Coatings and Polymeric Materials at NDSU, effective Jan. 15. He previously was a professor in that department.

As department chair, Webster will be responsible for overseeing department budgets and resource allocation; handling hiring, annual reviews and other personnel tasks; collaborating with department members to establish goals and promoting the department locally, nationally and internationally.

“Dr. Webster’s experience in business and more recently in academia makes him uniquely qualified to take on this role for a department that works closely and successfully with industry,” said Kevin McCaul, dean of the College of Science and Mathematics. “I’m delighted that he is willing to add this responsibility to all of the other things that he does so well.”

Webster succeeds Stuart Croll who served in the role for more than five years. Croll will return to the position of full-time professor in the department. “Dr. Croll was very successful during his time as chair, overseeing the department as it handled literally millions of dollars in innovative research expenditures,” McCaul said. “Dr. Croll helped keep the department on the national and international map.”

Webster earned his bachelor’s degree in chemistry and his doctorate in materials engineering science from Virginia Polytechnic Institute and State University, Blacksburg, Va. He then worked as a scientist in polymer research and development at Sherwin-Williams Co., Chicago. He also worked as a research associate in the coatings and resins research lab at Eastman Chemical Co., Kingsport, Tenn., before joining the Department of Coatings and Polymeric Materials at NDSU in August 2001.

## Former NDSU VP named president at Dickinson State University



Coston

The State Board of Higher Education named former NDSU vice president D.C. Coston as president of Dickinson State University, during its Jan. 19 meeting in Bismarck, N.D. Since Aug. 22, Coston served as DSU’s interim president.

Before joining DSU in August, Coston was NDSU vice president for agriculture and university Extension and was responsible for the North Dakota Agricultural Experiment Station, NDSU Extension Service and Northern Crops Institute. He came to NDSU in 2005 from Oklahoma State University’s Agricultural Experiment Station, Stillwater, Okla., where he was associate director and chief operating officer.

Coston earned a bachelor’s degree at North Carolina State University, Raleigh, N.C., and a master’s degree and doctorate at Michigan State University, East Lansing, Mich.

## Academic Advising report available in Campus Connection

The Office of Registration and Records has developed an online Academic Advisement Report (automated degree audit) tool in Campus Connection to assist students and advisers in tracking student degree progress. Academic Advisement Reports replace paper curriculum guides and allow students to view degree progress at any time during their academic career.

Academic Advisement Reports are interactive and assist students in planning their enrollment for upcoming semesters. The reports are available for most undergraduate major and minor programs of study. “The academic advisement report feature in Campus Connection has been in the development stages for a number of years,” explained Heather Soleim, assistant registrar. “It’s exciting to finally have this service available to students and advisers. The report is a valuable tool.”

Academic Advisement Reports may be viewed in Campus Connection by students at Self Service > Student Center > “My Academics” > “View My Advisement Report.” The Office of Registration and Records conducts official degree audits and final verifications of requirements for graduation. Students are responsible for monitoring their degree progress, meeting with their academic adviser, and completing degree audit requests and graduation applications by published dates and deadlines. For more information on academic advising and the academic advisement report, go to [www.ndsu.edu/registrar/advising](http://www.ndsu.edu/registrar/advising) or contact Soleim at [heather.soleim@ndsu.edu](mailto:heather.soleim@ndsu.edu) or 1-6430.

## NDSU Extension director candidates invited for interviews

Two candidates for the NDSU Extension Service director position have been selected for on-site interviews. During early February, each candidate will participate in interview events in Fargo and Mandan, N.D., and will present a seminar titled “Vision for the Future of the NDSU Extension Service.”

Duane Williams, associate director for the University of Wyoming Cooperative Extension Service, Laramie, Wyo., will interview Feb. 1-3. Williams earned a doctorate in rural sociology from Kansas State University and was an Extension community development specialist with the University of Missouri prior to his current position. His seminar presentation is scheduled for Thursday, Feb. 2, at 11 a.m. in the Memorial Union Century Theater.

Dale Gallenberg, dean of the College of Agriculture, Food and Environmental Sciences at the University of Wisconsin, River Falls, will interview Feb. 13-15. Gallenberg earned a doctorate in plant pathology from Cornell University and was department head of the plant science department and an Extension plant pathologist at South Dakota State University prior to his current position. His seminar presentation is set for Tuesday, Feb. 14, at 11 a.m. in the Memorial Union Century Theater.

The selected candidate will succeed Duane Hauck, who retired as Extension director on Dec. 31. See [www.ag.ndsu.edu/extension/directorsearch](http://www.ag.ndsu.edu/extension/directorsearch) for interview details and the candidates’ curricula vitae.

## Novel dental implant wins NDSU's Innovation Challenge '12

Bison Microventure, a team of 15 NDSU students, won first place and \$5,000 for their novel dental implant in the Innovation Challenge '12 competition Jan. 26.

The team is developing a porous ceramic dental implant for people who cannot use traditional titanium implants. Because the implant is made from a type of inexpensive ceramic that has bone-like properties, it has the potential to reduce rejection rates, help patients heal faster, be more cost-effective and change using titanium as the standard material in dental implants and other biomedical devices.

"With this funding, we can pump out more data and research to take this project to the next level," said team captain Erica Pfarr, a senior biochemistry and molecular biology major from Rochester, Minn. "The next step will be writing a grant proposal to make this idea into an option for those seeking a dental implant."

The team includes student engineers who build the implants and student scientists who grow cells on the implants and analyze that growth. Other team members are junior Derek Holt, manufacturing engineering major from Fargo; senior Cody Mathison, manufacturing engineering major from Mora, Minn.; junior Deanna Webster, zoology major from Penn., N.D.; sophomore Danielle Stromme, zoology major from Crary, N.D.; senior Tyler Johnson, biology major from Bismarck, N.D.; sophomore Shelby Schields, zoology major from Beulah, N.D.; junior David Sundquist, mechanical engineering major from Cottage Grove, Minn.; sophomore Andrew Dalman, mechanical engineering major from Minneapolis; sophomore Lucas Budzien, mechanical engineering major from Blaine, Minn.; senior Austin Vetter, zoology major from Minot, N.D.; senior Brittany Korynta, horticulture major from Gilby, N.D.; sophomore Joel Hedlof, mechanical engineering major from Willmar, Minn.; senior Brittany Gagner, zoology major from Fergus Falls, Minn.; and senior Derek Hiam, zoology major from Lisbon, N.D.

The Aphasia Therapy team, which includes senior Trisha McDonald, university studies major from West Fargo, N.D., and senior Amanda Beller, psychology major from Morganville, N.J., won second place and \$2,500. McDonald and Beller's project is therapy for people who have aphasia, an acquired communication disorder that impairs a person's ability to process language. The therapy includes a collection of software that uses word recall and association, audiovisual matching and complex sentence patterns to help rehabilitate people who have lost complex language skills.

The CPM team, which includes Rajan Bodkhe from Amravati, India, and Chavanin Siripirom from Bangkok, Thailand, won third place and \$1,000. Their project is a coating system to prevent the growth of marine organisms on ship hulls. This growth, known as biofouling, causes speed reduction, loss of maneuverability, as well as increased fuel consumption, pollution, dry-docking frequency and voyage time. Bodkhe and Siripirom are both graduate students in coatings and polymeric materials.

The Innovation Challenge '12 was a new component of the third annual Innovation Week held by NDSU and the NDSU Research and Technology Park. "The success of the first Innovation Challenge '12

competition is due to the very bright and talented NDSU students who participated in the event," said Tony Grindberg, executive director of the NDSU Research and Technology Park. "The caliber of projects was outstanding and truly reflects the first-class research and innovative work being done on campus and in the park."

Judges were Tom Walter of Tasty Catering, John Cosgriff of Invest America, Rick Kasper of MinnDak Farmers Cooperative, Carol Schlossman of Insight to Action, Arjan Giaya of Triton Systems, Andrew Christensen of Arthur Ventures, Joe Sandin of OnSharp and Bob Allen of Appareo Systems.

"Innovation Week overall and the Innovation Challenge '12 competition wouldn't be possible without the generous donation of time and talent from our presenters and judges," said Brenda Wyland, associate director of the NDSU Research and Technology Park. "This community is very fortunate to have passionate and dedicated individuals willing to give back to our future business leaders and owners of tomorrow."

## Larusso named 2012 James Rosenquist Artist in Residence

The NDSU Department of Visual Arts announced Lori Larusso, Lexington, Ky., has been named the 2012 James Rosenquist Artist in Residence. Larusso will work spring semester 2012 in the studio dedicated for the program in Renaissance Hall, interacting with students, holding public lectures and opening her studio for visitors.

Larusso uses representations of generic and stereotypical middle-America in her paintings to remind the viewer of the culture one maintains on a daily basis. She uses this to explore the contradictions that exist in society's system of beliefs by pointing to the complexity of individual situations. She believes ideals are reflections of the way one wishes things were, rather than the way they actually are experienced. At NDSU, Larusso will teach a seminar course and her residency will culminate with an exhibition and donation of a piece of artwork to the James Rosenquist Artist Residency Collection. Additional information about Larusso can be found at [www.lorilarusso.com](http://www.lorilarusso.com).

Larusso earned a Bachelor of Fine Arts degree from the University of Cincinnati's College of Design, Architecture, Art and Planning and a Master of Fine Arts from the Maryland Institute College of Art's graduate interdisciplinary program, the Mount Royal School of Art. She works in her community as an advocate for reproductive rights, a part-time professor of art and maintains a studio practice. She exhibits her work locally, nationally and internationally. In 2011, Larusso was awarded a Visual Artist Fellowship from the MacDowell Colony, the Kentucky Art Council's Al Smith Fellowship and was a Milton and Sally Avery Fellow for 2010-11.

The James Rosenquist Artist in Residency Program for Visual Arts at NDSU honors James Rosenquist. Born in Grand Forks, N.D., Rosenquist is considered one of the greatest living artists of the Pop Art movement of North America. His work and career are internationally known. He was awarded an honorary doctorate from NDSU in May 2005.



## NDSU Music welcomes Dale Warland

NDSU Music welcomed composer/conductor Dale Warland as an artist-in-residence, Jan. 9-11.

Warland spent the residency working with students in both group and individual settings. He critiqued the NDSU Concert Choir and Madrigal Singers, met individually with graduate students to discuss their academic and career plans and led a student convocation.

Warland founded the Dale Warland Singers, a vocal ensemble known for its exquisite sound, technical finesse and stylistic range. Warland has received several honors, including the Choral Arts Society of Philadelphia's Individual Leadership in Choral Music Award, Champion of New Music Award from the American Composers Forum and the prestigious American Society of Composers, Authors and Publishers Victor Herbert Award. He received a Grammy nomination for best choral performance and received honorary doctorates from the University of Minnesota and Macalester College.

Warland's work as a conductor has allowed him to work with choirs throughout the world, including the Swedish Radio Choir, Mormon Tabernacle Choir, Opus 7 Vocal Ensemble, Choral Arts Society of Philadelphia and Israel's Cameran Singers.

## Center for Community Vitality receives Bush Foundation grant

Kathleen Tweeten, director of the NDSU Extension Center for Community Vitality, received a grant from the Bush Foundation in the amount of \$50,000.

The center works to create vital North Dakota communities. The expected outcome of the partnership with the Bush Foundation is to increase individual leadership capacity to advance solutions for tough public problems.

The grant will help raise awareness of the availability of the Bush Fellowship and increase successful applications for the fellowship.

## Nursing department to take part in Giving Hearts Day

Dakota Medical Foundation and Impact Foundation have selected NDSU's Department of Nursing to participate in the 2012 Giving Hearts Day, a 24-hour online fundraising event scheduled for Feb. 14.

Contributions of \$10 or more will be matched. To support the nursing department and have your donation matched, visit [www.impactgiveback.org](http://www.impactgiveback.org) on Feb. 14 and click on the Giving Hearts Day "Learn More" button.

For more information, contact Sara Wald, director of advancement for the College of Pharmacy, Nursing, and Allied Sciences, at 1-6461 or [sara.wald@ndsu.edu](mailto:sara.wald@ndsu.edu).

## New tool locates grant funding and collaborators

NDSU faculty, staff and students who use COS (formerly Community of Science) must soon make the transition from COS to its new, improved rendition called "Pivot." COS has been used by the NDSU community during the past decade to conduct customized grant searches and receive email alerts about upcoming grants in their fields. COS also hosts a database of faculty profiles, called COS Expertise. COS can be used for all disciplines, not only the sciences. It also is used for all types of scholarly activity, in addition to research.

Pivot automatically pre-populates faculty expertise profiles, taking information from professional journals, websites and other trusted online sources, making it no longer necessary for faculty to update their own information. Also, Pivot creates grant searches, available with one click once the user logs in to their account. Faculty, staff and students may still create their own searches and customize profiles as needed.

Although both COS ([www.cos.com](http://www.cos.com)) and Pivot (<http://Pivot.cos.com>) are now available to NDSU users, eventually COS will be discontinued as the transition is made to Pivot. NDSU has a renewed subscription to COS Pivot for the next three years. Previous COS users can use their cos.com usernames and passwords to access Pivot.

Because NDSU's IP addresses are recognized by Pivot, one can start searching for funding or faculty profiles immediately. If you have a COS username and password, there is no need to create a new one. If you do not have a username and password, you can create one. A username and password are necessary when a user is off-campus, or when a user wants to save a funding record or funding search.

If you haven't been a COS user, get started now with Pivot. To create a Pivot account, go to <http://pivot.cos.com> and click the "Sign up" option in the upper right of the screen. Faculty, staff and students can gain access to Pivot by indicating your affiliation with NDSU.

Training is available online at your own desktop. A newly created COS Pivot YouTube channel can be accessed at <http://youtube.com/proquestpivot>. Both live and recorded webinars are available at [www.refworks-cos.com/training](http://www.refworks-cos.com/training). For more information or assistance, contact [kay.sizer@ndsu.edu](mailto:kay.sizer@ndsu.edu).

## FORWARD to offer search committee member training

The FORWARD project will sponsor training sessions for faculty search committee members on Tuesday, Feb. 14, from 2:30 p.m. to 4:30 p.m. and Thursday, Feb. 16, from 9 a.m. to 11 a.m. Current search committee members are particularly encouraged to attend one of the sessions.

The training will include information on procedural aspects of the search process and research-based information addressing ways bias can influence recruitment and screening of applicants in a search, and strategies for overcoming bias.

Registration for either session should be completed by Friday, Feb. 10, on the FORWARD website at [www.ndsu.edu/forward](http://www.ndsu.edu/forward).

## Extension Service sponsors healthy lifestyle poster contest

North Dakota youth will have a chance to show off their creativity and knowledge of good health and nutrition in this spring's "Eat Smart. Play Hard." poster contest.

The contest is open to North Dakota youth ages 8 to 19 as of Sept. 1, 2011. Posters will be judged in two age divisions: preteen (ages 8 to 12) and teen (ages 13 to 19).

The NDSU Extension Service, NDSU Extension's Center for 4-H Youth Development and the North Dakota Dietetic Association are sponsoring the contest.

The posters should educate and promote the idea of living a healthy lifestyle. They also should inform North Dakota youth and adults about the importance of healthful food choices and regular physical activity.

This year's posters must be centered on a theme that directly relates to eating healthful foods and getting regular physical activity, with a special emphasis on healthy skin. Participants can learn more about the role of nutrition and sun protection in maintaining healthy skin from "Nourish Your Skin," an NDSU Extension publication available at [www.ag.ndsu.edu/pubs/yf/foods/fn1572.pdf](http://www.ag.ndsu.edu/pubs/yf/foods/fn1572.pdf).

"Many children do not consume the recommended amount of colorful fruits and vegetables, and they do not reach physical activity goals," said Julie Garden-Robinson, NDSU Extension food and nutrition specialist. "We hope this activity gives children the opportunity to be advocates for healthful eating, physical activity and sun safety for their peers, families and communities."

Posters will be judged on how well they present information, general appearance and effectiveness in educating others about healthy lifestyles. The prizes are in the form of gift cards for a chosen retailer. Winners will receive a \$50 card for first place, a \$35 card for second place and a \$15 card for third place. All entrants will receive a participation prize.

"In our past poster contests, children and teens have shown great creativity in promoting health messages to their peers and others," Garden-Robinson said.

Some past poster contest winning entries can be viewed on the "Eat Smart. Play Hard. Together" website at [www.ndsu.edu/eatsmart](http://www.ndsu.edu/eatsmart).

Entries must be postmarked by March 15. They should be labeled Attn: Eat Smart. Play Hard. Poster Contest Entry, 219 and either dropped off at the Center for 4-H Youth Development, FLC, 1310 Centennial Blvd, or mailed to Center for 4-H Youth Development, Dept 7280, Box 6050, Fargo, ND 58108-6050.

Contest rules are available at [www.ndsu.edu/fileadmin/4h/GroupProjects/PosterContestRules.pdf](http://www.ndsu.edu/fileadmin/4h/GroupProjects/PosterContestRules.pdf). The entry form is at [www.ndsu.edu/fileadmin/4h/GroupProjects/poster\\_contest\\_submission\\_cover\\_sheet\\_2011-12.pdf](http://www.ndsu.edu/fileadmin/4h/GroupProjects/poster_contest_submission_cover_sheet_2011-12.pdf).

"Eat Smart. Play Hard." is a U.S. Department of Agriculture Food and Nutrition Service initiative that focuses on making America's children healthier. It provides practical suggestions to help children and their caregivers eat a healthful diet and be physically active.

## President's Council on Alcohol and Other Drugs schedules training

Students, faculty and staff are invited to upcoming training sessions for the LIVE Real Mentor Program, sponsored by NDSU's President's Council on Alcohol and Other Drugs. The sessions are scheduled for Tuesday, Jan. 31, and Wednesday, Feb. 29, both at noon in the Memorial Union Prairie room; and Thursday, March 29, and Wednesday, April 25, both at 4 p.m. in the Family Life Center Room of Nations.

A special, marijuana-focused training session is scheduled for Tuesday, Feb. 14, at noon in the Memorial Union Arikara room. The session will provide information on the harmful effects of marijuana, recognizing and referring students who are struggling with marijuana use and dispelling myths about marijuana use.

The one-hour training sessions aim to increase the knowledge of the NDSU community about the effects of high-risk alcohol and drug use and how to take further steps to promote an environment of safe and responsible attitudes toward alcohol.

Individuals who complete the training will have the opportunity to identify themselves as a resource for individuals seeking information and guidance on issues related to alcohol and other drug use.

To schedule an individual training session for a department or student organization, contact Erika Beseler Thompson at 1-5478 or [erika.beseler@ndsu.edu](mailto:erika.beseler@ndsu.edu).

For more information, visit [www.ndsu.edu/alcoholinfo](http://www.ndsu.edu/alcoholinfo) or email [NDSU.Prevention@ndsu.edu](mailto:NDSU.Prevention@ndsu.edu).

## Doctoral Dissertation Assistantships applications sought

The North Dakota Experimental Program to Stimulate Competitive Research (ND EPSCoR) call for Doctoral Dissertation Assistantships proposals is available at [www.ndepscor.nodak.edu](http://www.ndepscor.nodak.edu). Applications are due by noon on May 31.

The students must make applications with supplemental information provided by their advisers and endorsement from their department's graduate program director and the department chair.

ND EPSCoR's Doctoral Dissertation Assistantships program is designed to increase the completion rate of doctoral students enrolled in the science, engineering and mathematics disciplines at North Dakota's two research-intensive universities, and to increase the number of competitive proposals submitted to the National Science Foundation.

North Dakota EPSCoR is a federally and state funded program designed to improve the ability of university researchers to compete more effectively for federal, regional and private research grants in the sciences, engineering and mathematics. For more information on the DDA program opportunity, visit [www.ndepscor.nodak.edu/programs/DDAndsuRFP2012.htm](http://www.ndepscor.nodak.edu/programs/DDAndsuRFP2012.htm).

Questions can be directed to Elizabeth Jung at 1-1048 or [elizabeth.jung@ndsu.edu](mailto:elizabeth.jung@ndsu.edu).

## Klefstad establishes NDSU scholarship endowment

NDSU alumnus Harlan Klefstad has presented a \$250,000 gift to the NDSU Development Foundation to establish a scholarship endowment. Klefstad, a Forman, N.D., resident, established the Harlan and Lyla Klefstad Scholarship Fund.

“At NDSU, scholarship endowments are an important priority as we work to recruit and retain outstanding students in our state,” said President Dean L. Bresciani. “Mr. Klefstad is demonstrating a true commitment to the future through his support of scholarships for incoming NDSU students, and helping us fulfill our very strong commitment to being a student-focused university.”

The gift will provide scholarship support to Sargent County, N.D., students attending NDSU. It is anticipated a minimum of two awards will be given annually to freshman students enrolling with a score of 28 or better on their ACTs or a B average in high school.

Jim Miller, NDSU Development Foundation executive director, said, “Harlan has paved the way for others to follow with his most recent generous contribution. We truly appreciate his continued interest in wanting to help students further their higher education at NDSU.”

Klefstad and his late wife, Lyla, were honored in 1994 as Outstanding Agriculturists during the annual NDSU Harvest Bowl. The Klefstads have three grown children: Steve, Forman; Wendy Kotchian, Fargo; and Janell (McLaen), Forman.

Klefstad earned a bachelor’s degree in business administration from NDSU in 1952. While a student at NDSU, he was a member of the NDSU Gold Star and NDSU Marching Bands and Alpha Tau Omega fraternity. He was born in Lake City, S.D., and moved to Forman in 1936. He and Lyla lived in Forman until her death in 1998.

Klefstad had a 36-year career at the Sargent County Bank in Forman, where he advanced from cashier to chair of the board. He served on the North Dakota State Banking Board for eight years, was mayor of Forman for eight years and is a Marine Corps veteran. He is a member of the American Legion and Lions Club, as well as a Mason Shriner and a life trustee of the NDSU Development Foundation.

## 4-H Tribal Youth Mentoring Program awarded grant

The NDSU Center for 4-H Youth Development has been awarded a \$113,753 grant from the National 4-H Council for the 4-H Tribal Youth National Mentoring Program.

The grant will implement the 4-H Mentoring: Youth and Families With Promise (4-HYFP) program on the Standing Rock, Fort Berthold and Turtle Mountain reservations in North Dakota. Rachelle Vetter, NDSU Extension leadership/volunteer development specialist and assistant professor in the College of Human Development and Education, is providing leadership for the project, with local Extension staff responsible for its implementation.

Local staff are Sue Isbell, Extension agent in Sioux County; Elise Regen, Extension agent, and Carol Enno, nutrition education

assistant, for Fort Berthold; and Karen Armstrong and Mark Miller, Extension agents in Rolette County.

The prevention-based program is designed to enhance the developmental assets of at-risk youth ages 10 to 14. The program provides one-on-one mentoring to strengthen academic and social skills; 4-H activities such as club involvement to enhance social competencies through leadership opportunities, community service and group project work; and family night out group activities designed to foster family bonds through experiential learning. Program goals include decreasing juvenile delinquency, improving social competencies and strengthening family bonds.

“The Extension Service is pleased to receive this award because it contributes to our goal of being an inclusive and multicultural organization that appropriately serves all the people of North Dakota,” Center for 4-H Youth Development chair Brad Cogdill says. “This project will enhance our capacity to serve Native American audiences through evidence-based and culturally appropriate educational activities.”

The award was made available on behalf of the 4-H National Headquarters through collaboration between the National 4-H Council and Department of Justice/Office of Justice Programs’ Office of Juvenile Justice and Delinquency Prevention. The North Dakota award is part of a \$1 million award to the National 4-H.

With its history of serving youth from varying cultures and circumstances, 4-H will adapt the YFP program nationally in about 29 tribal communities serving 1,100 Native American youth ages 10 to 17 within 16 months. Each program will be adapted to local customs.

## Development Foundation accepting grant applications

The NDSU Development Foundation Grants and Awards Committee is accepting applications from faculty and staff for grants from four funds for the 2012 academic year. The application deadline is Feb. 29.

The Centennial Endowment Fund can provide maximum awards of \$5,000, with a total of \$20,000 available. It supports professorships, scholarships, biotechnology, faculty development, libraries and cultural arts.

The NDSU Development Foundation Board of Trustees Endowment can provide maximum awards of \$1,000, with a total of \$4,100 available. It supports general programs across campus.

The NDSU Development Foundation Libraries Endowment has \$3,000 available. It supports requests from any academic unit on campus for materials that will enhance the collections and/or operations of university libraries.

The NDSU Development Foundation Gordon A. Larson Agricultural Research Fund has \$13,950 available for awards. This fund has no maximum award amount and supports competitive grants for agricultural research efforts conducted at NDSU.

Faculty and staff can obtain copies of application forms for all four awards at the Development Foundation’s website at [www.ndsufoundation.com/grants.htm](http://www.ndsufoundation.com/grants.htm). The NDSU Development Foundation will notify applicants of funding decisions prior to March 30.

## Steinhaus-Rhinehart Scholarship applications sought

Students are encouraged to apply for the NDSU Development Foundation Steinhaus-Rhinehart Scholarship. Applications are available at Student Financial Services in Ceres Hall 202. Students with a senior standing as of fall 2012 can apply for the \$800 scholarship until the March 1 deadline.

Mabry C. Steinhaus established the endowment in 1994 in honor of her late husband Edward A. Steinhaus, an NDSU alumnus, and his parents, Alice Rhinehart-Steinhaus and Arthur A. Steinhaus. It provides scholarship assistance to students in the College of Science and Mathematics or College of Agriculture, Food Systems, and Natural Resources who are majoring in a biological science (animal and range science, biochemistry, biological sciences, biotechnology, biotic resources science, botany, crop and weed sciences, food sciences, food safety, horticulture, microbiology or zoology) and who plan to do research and attend graduate school in the area of biological science. Students must have a cumulative grade-point average of 3.0 or higher.

Steinhaus grew up in Max, N.D., and graduated from NDSU in 1936 with a major in bacteriology. He went on to earn his doctorate from Ohio State University in 1939, focusing on bacteriology with a strong interest in entomology.

A committee of faculty from each of the two colleges will monitor applications. The recipient will be selected by mid-March and the award will be made during the fall 2012 semester.

## Students to engage in penny war to benefit charities

NDSU students from two colleges are going head-to-head in the second annual "Battle of the Cents-es" penny war to see who can raise more money for their selected charities.

For five days, Feb. 6-10, the College of Pharmacy, Nursing, and Allied Sciences Ambassadors will collect money for Cullen Children's Foundation, while the College of Engineering and Architecture Ambassadors will raise funds for the Minot State University Flood Families Fund. A collection booth will be set up in the Memorial Union from 10 a.m. to 2 p.m. each day and additional collection sites will be set up in each colleges' buildings. Battle rules state that all coins count positively toward team totals, but paper money (while it benefits the charities) counts negatively toward team totals.

The student groups selected charities that relate to the career areas they are pursuing. Cullen Children's Foundation provides financial resources to organizations that support children's health-care needs with an emphasis on cancer. Minot State University Flood Families Fund was established to help the university's 116 faculty and staff displaced by flooding.

Last year's competition was highly successful, raising a combined total of more than \$1,250. It also was neck and neck, with only \$27 separating the teams. The victory went to the Pharmacy, Nursing, and Allied Sciences Ambassadors, who raised \$643.33

for the Dakota Medical Foundation. They narrowly topped the Engineering and Architecture Ambassadors, who raised \$615.50 for Habitat for Humanity.

For more information on the Cullen Children's Foundation, visit <http://cullyskids.com>. For more information on the Minot State University Flood Families Fund, visit [www.minotstateu.edu/flood\\_2011\\_donate.shtml](http://www.minotstateu.edu/flood_2011_donate.shtml).

## 38 Bison named to Summit League Fall All-Academic Team

NDSU had 38 student-athletes named to the Summit League Fall All-Academic Team announced by the league office Jan. 26. The Bison had 25 student-athletes named Distinguished Scholars.

A total of 517 Summit League student-athletes from men's and women's cross country, men's and women's soccer and volleyball have been honored for their academic excellence. Of the 517 selections, a total of 272 were recognized as Distinguished Scholars.

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

### Women's Cross Country

\*Abbi Aspengren, Fr., nursing  
 \*Lexi Jo Heitkamp, Jr., psychology  
 Emily Helwig, R-Fr., human development and family science  
 Kathryn Houle, Jr., nursing  
 \*Hannah McAllister, Jr., interior design  
 \*Maddie McClellan, So., English education  
 \*Kelly Pechous, So., pharmacy

### Men's Cross Country

Grady Anderson, R-Fr., civil engineering  
 \*Alex Barney, So., psychology  
 \*Alec Espeland, So., microbiology  
 Travis Fitzke, Sr., biological sciences  
 \*Moses Heppner, So., exercise science  
 Marty Joyce, So., civil engineering  
 \*Brett Kelly, R-Fr., biochemistry and molecular biology  
 \*Spencer Uetz, R-Fr., exercise science

### Women's Soccer

\*Kalani Bertsch, Sr., management  
 Danielle Boldenow, Sr., public relations and advertising  
 \*Holly Christian, Jr., zoology  
 \*Megan Dean, Sr., exercise science  
 Katie Felch, Fr., nursing  
 \*Sheri Fitzsimmons, So., pharmacy  
 \*Michelle Gaffaney, Sr., biological sciences  
 \*Stephanie Jacobson, So., biological sciences  
 Anisha Kinnarath, Fr., exercise science  
 \*Katie Luce, Sr., human development and family science  
 \*Taylor Stainbrook, Fr., undecided  
 Abbey Moenkedick, Sr., nursing  
 \*Rachel Trudeau, Fr., zoology  
 Laura Wagner, Sr., nursing  
 \*Tristyn Walczak, Fr., electrical engineering



**Volleyball**

Lauren Cammack, Fr., civil engineering

Janna Deyle, Sr., exercise science

\*Andrea Henning, Jr., exercise science

\*Brynn Joki, Jr., art

\*Chrissy Knuth, Sr., exercise science

Megan Lambertson, Jr., psychology

\*Paige Nash, Sr., zoology

\*Katelyn Schwartzberger, Sr., interior design

\*Distinguished Scholar

**DIVERSITY**

**Division launches initiatives to improve campus climate**

NDSU has launched two initiatives to support the work of the Division of Equity, Diversity and Global Outreach. The Equity and Diversity Advisory Council and the Equity and Diversity Liaisons replace the NDSU Diversity Council, which was formed in 2001 to address concerns about campus climate for diverse faculty, staff and students.

The Advisory Council is comprised of 27 members from all constituency groups across campus, including students, staff, faculty, administrators, alumni and community members. Members were appointed by administrators to represent each division and academic college, NDSU Alumni Association, athletics, Faculty Senate, Staff Senate, Student Senate, Extension services and community leaders. The primary role of the council is to advise the vice president for equity, diversity and global outreach on policy and program decisions and to assist in communicating the initiatives of both the division and the council to members of the campus and greater Fargo-Moorhead community.

The Equity and Diversity Liaisons include 24 faculty and staff representing every division and college at the university. Individuals serving as liaisons were self-nominated volunteers. Characterized as an operational working group, the liaisons will assist with efforts to conduct trainings – including sexual harassment training and various diversity-related training efforts – and to serve as a resource for any employees of the university who have concerns regarding harassment or discrimination. While the liaisons will not be involved with any investigations or official mediation work on behalf of the university, they will be available to help individuals identify resources available to them, review policies regarding the university’s non-discrimination statement and help individuals understand their options when faced with a potentially discriminating situation. Some areas have successfully started diversity committees and the division hopes vice presidents and deans, in working with the liaisons, colleges and divisions, will create additional diversity committees to improve the campus climate.

For a list of the Advisory Council members and Equity and Diversity Liaisons, visit [www.ndsu.edu/diversity](http://www.ndsu.edu/diversity).

**RESEARCH**

**Faculty collaborate with NDSU alumnus on food safety project**



*Bezbaruah*

Five researchers from NDSU’s Departments of Civil Engineering and Biological Sciences have been awarded a three-year, \$500,000 research grant by the National Institute of Food and Agriculture of the U.S. Department of Agriculture. The project, titled “Life-cycle Approaches to Understand the Interactions Between Crops and Engineered Nanoparticles at Molecular Level,” also has an NDSU alumnus as a collaborator.



*Dinesh Katti*

Achintya Bezbaruah, principal investigator, Dinesh Katti and Kalpana Katti from civil engineering; Marinus Otte and Donna Jacob from biological sciences; and NDSU alumnus Jose Gonzalez from South Dakota State University will conduct collaborative research to understand the molecular level interactions of two specific engineered nanoparticles (zinc oxide and carbon nanotubes) with crop plants through in-vivo, in-vitro, genetic, genomic and molecular modeling experiments, and relate the information to food security.



*Kalpana Katti*

The growth in applications of engineered nanoparticles in areas such as cosmetics, electronics, drugs and other biomedical applications and the subsequent release of engineered nanoparticles into the environment and their potential impact on plants were the motivation for the proposed research. The project will improve understanding of the mechanisms underlying plant uptake of engineered nanoparticles and their fate and transport within the plants.



*Otte*

The main focus of the research will be on spinach. Uptake and translocation of nanoparticles in rice also will be studied. An important goal of the project is to assess if engineered nanoparticles affect DNA in the plants because of molecular interactions between nanoparticles and plant tissues.



*Jacob*

The research will help in assessing the threats to food security from engineered nanoparticles and in developing methods to prevent negative impacts of such nanoparticles.

NDSU’s civil engineering department has a strong research emphasis on environmental nanotechnology and has been successful in pursuing federal grants in recent years. The research team’s strength in plant and microorganism interactions with engineered nanoparticles, nanomaterials, biomolecular modeling, material characterization and genomics helped them to be among the five to seven research projects supported this year from among the 101 research proposals submitted to National Institute of Food and Agriculture’s priority area of physical and molecular mechanisms of food contamination.

## NDSU nano research could impact flexible electronic devices



*NDSU physics graduate student John Harris and Anna Bernhardt, a junior at New Salem-Almont High School, near Bismarck, N.D., work in an NDSU lab on nanotechnology research that could lead to items like wearable or foldable electronic devices.*

A discovery by a research team at NDSU and the National Institute of Standards and Technology shows the flexibility and durability of carbon nanotube films and coatings are intimately linked to their electronic properties. The research could one day impact flexible electronic devices such as solar cells and wearable sensors. The research also provided a promising young high school student the chance to work in the lab with world-class scientists, jumpstarting her potential scientific career.

The research team, led by Erik Hobbie, is working to determine why thin films

made from metallic single-wall carbon nanotubes are superior for potential applications that demand both electronic performance and mechanical durability. "One simple reason is that the metallic nanotubes tend to transport charge more easily when they touch each other," said Hobbie. "But another less obvious reason has to do with how much the films can flex without changing their structure at very small scales."

Results from the study appear in "Electronic Durability of Flexible Transparent Films from Type-Specific Single-Wall Carbon Nanotubes," published in ACS Nano (<http://pubs.acs.org/doi/abs/10.1021/nn204383t>).

The team includes NDSU graduate student John M. Harris; post-doctoral researcher Ganjigunte R. Swathi Iyer; Anna K. Bernhardt, North Dakota Governor's School attendee; and NIST researchers Ji Yeon Huh, Steven D. Hudson and Jeffrey A. Fagan.

There is great interest in using carbon nanotube films and coatings as flexible transparent electrodes in electronic devices such as solar cells. "Our research demonstrates that the flexibility and durability of these films are intimately linked to their electronic properties," said Hobbie. "This is a very new idea, so hopefully, it will generate a new series of studies and questions focused on the exact origins and consequences of this effect."

Such research could potentially result in material that reduces solar cell costs and leads to the ability to use them in clothing or foldable electronics. Electronic devices currently on the market that require transparent electrodes, like touch screens and solar cells, typically use indium tin oxide, an increasingly expensive material. "It is also very brittle," said Hobbie, "implying that it cannot be used in devices that require mechanical flexibility like wearable or foldable electronics."

Single-wall carbon nanotubes show significant promise as transparent conductive coatings with outstanding electronic, mechanical and optical properties. "A particularly attractive feature of these films is that the physical properties can be tuned through the addition or subtraction of a relatively small number of nanotubes," Hobbie said. "Thin films made from such materials hold tremendous potential for flexible electronics applications, including the replacement of indium tin oxide in liquid crystal displays and photovoltaic devices."

Thin films made from metallic single-wall carbon nanotubes show better durability as flexible transparent conductive coatings, which the researchers attribute to a combination of superior mechanical performance and higher interfacial conductivity. The research team found significant differences in the electronic manifestations of thin-film wrinkling, depending on the electronic type of the nanotubes, and examined the underlying mechanisms.

The results of the study suggest that the metallic films make better flexible transparent conductive coatings; they have higher conductivity and are more durable. "Our results are relevant to a number of ongoing efforts in transparent conducting films and flexible electronic devices," Hobbie said.

The research was supported by the National Science Foundation through CMMI-0969155 and the U.S. Department of Energy through DE-FB36-08GO88160.

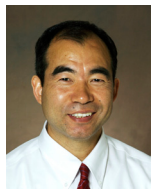
The opportunity to work on such research was new to Anna Bernhardt, a high school junior from a town of 1,000 people in western North Dakota. She was among 66 of the most academically driven high school sophomores and juniors who attended a six-week intensive summer residential program on the NDSU campus for scholastically motivated students in the state.

Students receive concentrated instruction from 40 NDSU faculty through discussion groups, labs, field trips and other activities. The state of North Dakota funds the cost of participation for North Dakota students who are accepted into the program. It's available free to public school students, while private and home-school students selected for the program can make arrangements to attend for free through their local public school district.

While it is unusual for a young student to be involved in nanotechnology research at this level, it presented an opportunity for everyone involved. Bernhardt prepared single-wall carbon nanotube samples and participated in testing of the samples. "The experience of working in a research setting has helped me to decide that I would love to do more research in the future," said the young scientist. "The biggest benefit of working in the lab was getting a taste of the true research experience. Without North Dakota's Governor's School, I would never have been able to have this experience and surely wouldn't be so certain that I would like to do more research in the future."

Students who participate in the residential summer science program at NDSU also present their research in poster presentations. "As a young student interested in science and engineering, it gives her a great start on her career," Hobbie said. When she graduates from high school, Bernhardt plans to major in physics.

## Faculty member invited to present at Sanford Research



Wu

Erxi Wu, assistant professor of pharmaceutical sciences, recently was invited to present his research at Sanford Research, Sioux Falls, S.D.

During the two-day visit, Wu met one-on-one or in groups with faculty at the Cancer Research Center, Children's Health Research Center and Cardiovascular Health Research Center at Sanford Research. Wu also presented a seminar titled "Cancer Therapeutics: Target and Drug Discovery." One example he discussed is platelet-derived growth factor receptors as therapeutics targets in metastatic medulloblastoma and cambogin, a newly discovered platelet-derived growth factor receptors' inhibitor from his group.

"I am very impressed by Sanford Research's facilities and accomplishments. I am happy we will establish close collaborations with some of the researchers at Sanford in the near future," Wu said.

According to its website, Sanford Research is a nonprofit research organization formed between Sanford Health and the University of South Dakota. Sanford Research is composed of several research centers including Cancer Biology, Cardiovascular Health, Health Disparities, Methodology and Data Analysis, Sanford Children's Health and the Sanford Project. For more information, visit [www.sanfordresearch.org](http://www.sanfordresearch.org).

## Engebretson Family Research Fund applications sought

The NDSU Development Foundation is seeking applications for the inaugural awarding of the Engebretson Family Research Fund. The fund is seeking proposals to aid in drug design and delivery research. Applications are encouraged from all colleges at the university. Total funds available for distribution for the 2012 academic year are \$19,300.

Twins Duane and Glenn Engebretson were born in 1921 in Devils Lake, N.D. Their father, Elmer Engebretson, operated the Devils Lake Drug beginning in 1916 where both sons were employed, beginning at age 13, in the store's soda fountain. Duane and Glenn followed in their father's pharmacy footsteps, graduating in 1943 from the University of Minnesota with bachelor's degrees in pharmacy. After their honorable discharges from military service in 1946, the brothers returned to North Dakota to work at Devils Lake Drug with their father, purchasing their father's interest in the business in 1949 and operating the pharmacy for 23 years until their retirement.

Duane and Glenn, along with their late parents, Elmer and Ethel Engebretson, have long been supporters of NDSU. The intent of the family has been to catalyze collaborative drug design and development research toward improved drug therapies that enhance health care.

Faculty and staff can access application forms at the Development Foundation's website, [www.ndsufoundation.com/grants.htm](http://www.ndsufoundation.com/grants.htm). The application deadline is Feb. 29. The Development Foundation will notify applicants of funding decisions prior to March 30.

## NDSU grape research highlighted at growers meeting

Several NDSU specialists will present at the North Dakota Grape Growers Association conference and annual meeting scheduled for Saturday, Feb. 4, at the Radisson Inn in Bismarck, N.D.

Harlene Hatterman-Valenti, NDSU high-value crops specialist, will present on crop optimization through weed control. Greg Cook, NDSU chemistry and biochemistry department professor and chair, will discuss wine chemistry.

John Stenger, NDSU graduate student, will discuss the NDSU grape research program and Bob Bertsch, NDSU Agriculture Communication web technology specialist, will present on electronic media marketing.

Also featured will be a grower and winery owner question-and-answer panel.

For more information on the conference, visit [www.ndgga.org](http://www.ndgga.org).

## Associate professor receives 2011 Young Investigator Award



Jayaraman

Sivaguru (Siva) Jayaraman, associate professor of chemistry and biochemistry, received the 2011 Young Investigator Award from the Inter-American Photochemical Society. The award will be presented at the society's 2013 meeting.

The Young Investigator Award was established in 2002 to recognize outstanding photoscientific contributions by society members who have held an independent research position for no more than five years at the time of application.

Jayaraman's research focus is in the area of photochemistry, supramolecular chemistry and organo- and supramolecular photocatalysis and light driven sustainable chemistry. He has received numerous awards, including the 2008 National Science Foundation CAREER award and 2010 Grammaticakis-Neumann Prize from the Swiss Chemical Society.

At NDSU, Jayaraman received the 2010 Excellence in Research Award and 2011 Excellence in Teaching Award. He joined the faculty at NDSU in 2006. He completed a postdoctoral fellowship at Columbia University, New York, after earning his doctorate from Tulane University, New Orleans. He earned a master's degree in chemistry from the Indian Institute of Technology, Madras, India, and a bachelor's degree in chemistry from St. Joseph's College, Trichy, India.



## PEOPLE

## NDSU Center for Writers names associate director



Peirce

Karen P. Peirce has been named associate director of the NDSU Center for Writers. In this role, she will conduct writing workshops, lead writing groups and promote writing in the disciplines.

Peirce was hired in 2010 as graduate writing coordinator in the NDSU Graduate School. She was instrumental in the transition to an electronic submission process for doctoral dissertations and master's degree theses and papers.

Peirce earned an honors bachelor of arts degree from Rollins College, Winter Park, Fla., a master's degree from Carnegie Mellon University, Pittsburgh, and a doctorate from the University of Arizona, Tucson. Prior to joining NDSU, Peirce was an assistant professor of English at the United States Military Academy, West Point, N.Y. She is the managing editor of FYHC: The Journal of First-year Honors Composition, and her honors include holding a Fulbright English Teaching Assistantship to South Korea.

## Extension Service specialist receives Zero Till Award



Ashley

Roger Ashley, NDSU Extension Service area cropping systems specialist at the Dickinson Research Extension Center, received the U.S. Zero Till Nonfarmer of the Year Award from the Manitoba-North Dakota Zero Tillage Farmers Association. Each year, the association honors a U.S. and Canadian farmer and agricultural professional for outstanding contributions to the organization.

Ashley received the award at the association's annual workshop in Minot, N.D., on Jan. 10.

He was recognized for his advisory role to the association's board, as well as leadership on the association's program and third manual committees during the past four years. His efforts have resulted in well-attended, dynamic workshops and a publication titled "Beyond the Beginning," which was released in February 2011. The publication is in its second printing of 10,000 copies.

The publication, although primarily aimed at producers interested in no-till cropping systems, has information on managing soil health, crop rotations, cover crops and other cropping system issues useful to producers not involved in zero-till cropping, according to Ashley.

Ashley has worked as Extension's cropping systems specialist for southwestern North Dakota since 1997. He focuses on root pathogen control, specialty crops and water management.

## Longtime ND-EPSCoR co-project director retires



David Givers, co-project director for ND-EPSCoR, NDSU (third from right) recently retired. Others pictured (L-R): Mark Hoffmann, co-project director, ND EPSCoR, UND campus; Elizabeth Jung, program coordinator, ND EPSCoR, NDSU campus; Phil Boudjouk, vice president for research and co-chair ND-EPSCoR, NDSU campus; Givers; Cathy Lerud, administrative officer, ND-EPSCoR, UND campus; and Carla Kellner, administrative assistant, ND-EPSCoR, UND campus.

David Givers, co-project director for the North Dakota Experimental Program to Stimulate Competitive Research at NDSU, was honored at a retirement party held Jan. 11 in the NDSU Research and Technology Park. Givers served as ND-EPSCoR co-project director at NDSU from 2006 to 2012 and as interim director from 2004 to 2006. He was an assistant project director for ND-EPSCoR from 1994 to 2003.

ND-EPSCoR provides research funding for doctoral dissertations, new faculty start-up awards, science infrastructure, support for women in science and engineering, programs for undergrads and work with the private sector.

"It's important to the North Dakota economy and to increase opportunities for students, faculty and businesses in the state. It's been a team effort," said Givers, noting the ND-EPSCoR partnership between NDSU and UND and other educational institutions in the state. At a National Science Foundation review last summer, out of more than 20 states, North Dakota was the only state to receive forward funding, guaranteeing that ND-EPSCoR will receive its funding through the grant period ending in 2013.

"With David's leadership, North Dakota's EPSCoR program has done well on a national basis," said Philip Boudjouk, vice president for research, creative activities and technology transfer. "He was an important contributor to two successful National Science Foundation applications for EPSCoR funding, plus funding matches from the North Dakota Legislature." In 2008, NSF awarded a five-year grant award totaling \$15 million to ND-EPSCoR, covering a variety of research programs at universities across the state. North Dakota is one of the few EPSCoR states that have been continuously funded by the National Science Foundation since 1985.

In addition to his administrative contributions, Givers worked to promote educational relationships with tribal colleges in North Dakota. EPSCoR's Nurturing American Tribal Undergraduate Research and Education (NATURE) program provides an education pathway for American Indian high school and tribal college students to study science, technology, engineering and math.



Givers also was assistant director of the Center for Advanced Technology Transfer and Traineeships at NDSU from 2000 to 2003. He was assistant director of the North Dakota Water Resources Research Institute at NDSU from 1995 to 1998. From 1996 to 1998, Givers split his time between ND-EPSCoR and working directly with students on environmental studies at Concordia College as an assistant professor of physics. "Working directly with students was especially rewarding," said Givers. He was director of the Tri-College University Center for Environmental Studies from 1990 to 1994.

Established in 1986 as a North Dakota University System program, the ND-EPSCoR strengthens the state's science and technology infrastructure and enhances its participation in competitive research and development. An interim co-project director will be named in the future. [www.ndepscor.nodak.edu](http://www.ndepscor.nodak.edu)

## Head soccer coach named

NDSU women's athletics director Lynn Dorn announced the hiring of Mark Cook as head women's soccer coach on Jan. 25.

Cook comes to NDSU after serving as the director of coaching at the Minnesota Thunder Academy for 11 years. The Minnesota Thunder Academy is one of the premier club programs in the Twin Cities.

Cook holds the United States Soccer Federation "A" coaching license, the highest certification available in the U.S. He also has the NSCAA Premier License and Director of Coaching Diploma.

He graduated from Alfred University in Alfred, N.Y., in 1993 with a bachelor's degree in communications. He was the starting goalkeeper for Alfred soccer for two years.

## Noone appointed musical theatre coordinator



Noone

Katherine Noone, lecturer and musical theatre specialist, has been named musical theatre coordinator for the International Music Camp, Dunseith, N.D. Her duties will include recommending faculty to serve as musical theatre instructors, coordinating the schedule for the middle school and high school students who attend the camp from the United States, Canada and other countries, and providing leadership.

Noone joined the NDSU faculty in 2007 and serves both the theatre arts and music departments. She teaches applied classical voice in addition to musical theatre voice, vocal pedagogy, development of musical theatre and directs the NDSU Musical Theatre Troupe. She is an active performer throughout the community, appeared as a soloist with the Fargo Moorhead Symphony Orchestra, NDSU Baroque Festival and Fargo Moorhead Chamber Chorale.

## Wellness Center hires fitness programs coordinator



Zastre

Mandy Zastre joined the NDSU Wellness Center as coordinator of fitness programs on Dec. 27. Zastre previously was health and wellness coordinator at the YMCA of Cass and Clay Counties. She supervised more than 70 fitness staff, while coordinating exercise classes for five group fitness studios at two locations.

Zastre earned a bachelor's degree in psychology from the University of North Dakota, Grand Forks, and a master's degree in health and kinesiology from the University of Texas at Tyler.

## Civil engineering professor chairs national committee



Kim

Jimmy Kim, assistant professor of structural engineering, has accepted an invitation from the Technical Activities Committee of American Concrete Institute to be the Chair of Committee 345 (concrete bridge construction, maintenance and repair). For the next three years, Kim will lead the committee consisting of 48 members.

Kim has been a member of the American Concrete Institute since 2004 and was promoted to a voting member of ACI-345 in 2008. Kim's contribution to Committee 345 includes serving as the chair of a subcommittee and he led a technical document, "Guide for Widening Highway Bridges," to be published in 2012. He also worked on the technical document, "Guide for Concrete Bridge Deck Repair and Rehabilitation." Kim organized a technical session in Chicago in 2010 as part of the committee activity. His technical and educational contributions were acknowledged by the 2010 ACI Outstanding University Award presented to NDSU; only 15 universities across the nation received the award.

Kim's research interest includes infrastructure rehabilitation using advanced composite materials. His research has resulted in 62 journal papers in his area of expertise and one book, "Recent Advances in Maintenance and Repair of Concrete Bridges." He is the adviser for 10 graduate students at NDSU. He is a member of the editorial boards of three international journals and is a licensed professional engineer in the Province of Ontario, Canada.

The American Concrete Institute organized in 1904 is the world's leading authority on concrete technology. It has 98 chapters worldwide, including more than 20,000 members in 108 countries. Conforming to its mission "Provide knowledge and information for the best use of concrete," the institute publishes technical documents, provides a standard certificate program for the industry, conducts educational seminars and encourages student involvement in the concrete field.

## Associate research fellow named chair of safety committee



Lantz

Brenda Lantz, associate research fellow with NDSU's Upper Great Plains Transportation Institute, will become chair of the Transportation Research Board's Truck and Bus Safety Committee in April. The Transportation Research Board is one of six major divisions of the National Research Council.

The Truck and Bus Safety Committee focuses on motor carrier safety, particularly research and evaluation related to human, roadway, vehicle, operational and organizational issues. Members of the committee work to keep other professionals informed of current research, stimulate new research and development and review and recommend papers for the Transportation Research Board's annual meeting.

Lantz is program director of the Upper Great Plains Transportation Institute's Transportation Safety Systems Center in Lakewood, Colo. The center develops and maintains software used by commercial vehicle safety specialists nationwide. She has more than 20 years of experience in transportation research at the institute, with much of that experience focused on commercial vehicle safety.

## Theatre arts assistant professor's play featured in book



Dobrusky

"Beethoven 'N' Pierrot," a play written by Pavel Dobrusky, theatre arts assistant professor, is discussed at length in "Beethoven in America," a book recently released by author Michael Broyles.

Broyles' book seeks to understand Beethoven as he exists as a cultural icon in America. He discusses Beethoven's portrayal in popular music, movies, theatre, religion and science. Dobrusky's play, which premiered in Denver in 1995, is discussed in the chapter titled "Beethoven and Theatre."

"Beethoven 'N' Pierrot" consists of 50 short stories that feature the thoughts Beethoven experienced in his last two hours of life. The stories range from the absurd to poignant and include characters both real and imaginary in the life of the composer.

## Senior soccer players receive honors

NDSU seniors Abbey Moenkedick and Michelle Gaffaney were selected to the National Soccer Coaches Association of America Scholar All-Central Region second team for the 2011 season.

Moenkedick, the 2011 Summit League Defensive Player of the Year, has a 3.49 grade-point average in nursing. The Champlin Park, Minn., native also was named first team all-league and to the Summit League All-Tournament team. She led the team in assists with seven and was a vital piece of a defense that tallied a school record 11 shutouts. Moenkedick was a first team Scholar All-Central honoree in 2010 and a second team pick in 2009.

Gaffaney was a second team all-Summit League honoree this past fall. She tied for the team lead in goals with six, including three game-winners. A Summit League all-tournament selection, the Bloomington, Minn., native has a 3.80 grade-point average in biological sciences. This is her first National Soccer Coaches Association of America academic honor.

## Former NDSU Extension director honored

Sharon Anderson, a former NDSU Extension Service director, received the National 4-H Council's Gary L. Davis Leadership Award.

The award honors those who have provided strong leadership in advancing the 4-H movement.

Anderson, who served as NDSU's Extension director from 1994 through 2003, spent the past eight years as special consultant to the president and CEO of the National 4-H Council. She recently retired from that position.

"My major role was to build and maintain positive relationships between the National 4-H Council and the leadership of the Cooperative Extension System," Anderson says. "I worked especially closely with Extension directors and administrators, helping them understand the role and work of the council, and I helped council staff understand the workings of the Cooperative Extension Service."

The Gary L. Davis Leadership Award comes with a monetary gift. Recipients designate a state to receive the money for its 4-H programming. Anderson selected NDSU Extension's Sioux County 4-H program to receive \$3,600.

The North Dakota 4-H Foundation is serving as the fiscal recipient of the gift and will designate the funds for use by the Sioux County 4-H program.

About 500 youth on the Standing Rock Reservation are involved in 4-H in Sioux County through school enrichment, after-school and archery programs and day camps.

## Bohl receives 2011 FieldTurf award



Bohl

FieldTurf announced the winners of its sixth annual FieldTurf Football Awards for the 2011 season after the conclusion of the American Football Coaches Association Convention in Texas. Winners were announced in 19 different categories, including NDSU head coach Craig Bohl as the NCAA FCS Coach of the Year.

The FieldTurf Coach of the Year Award recognizes a coach's dedication and hard work both on and off the field. The coaches that have been and will be selected for this award all exemplify outstanding leadership skills and enjoy well-deserved success. Special attention is given to coaches who are able to significantly improve their team's effort, performance and overall record from previous years and coaches who enjoy success with young and inexperienced teams.

## EVENTS

## Best of the Best meetings set for January and February

Best of the Best in Research and Marketing meetings have been set for dates in January and February.

Two meetings in eastern North Dakota will focus on wheat and soybean production recommendations and marketing strategies. The meetings are scheduled for Jan. 31 at the Courtyard by Marriott in Moorhead, Minn., and Feb. 1 at the Alerus Center in Grand Forks, N.D.

“As in the past, these meetings will present the latest research results addressing some of the most critical issues facing wheat and soybean producers in the region,” said Joel Ransom, NDSU Extension Service agronomist and one of the meeting organizers.

Five hands-on demonstrations are planned.

“These demonstrations are always popular with the participants because the learning is highly interactive,” said Hans Kandel, NDSU Extension Agronomist and one of the presenters.

Additional meetings will be held at the Ramada Grand Dakota Lodge in Dickinson, N.D., on Feb. 7 and the Grand International in Minot, N.D., on Feb. 8. The meetings will address issues related to production and marketing of wheat and barley.

Other presentations will address the growing problem of saline soils and explain factors that contributed to the poor crop yields this past season.

“In addition to the latest information on wheat production, many of the topics will have tips to help producers who are interested in barley but haven’t grown it for a while,” said Karen Hertsgaard, NDSU Institute of Barley and Malt Sciences information specialist, who will lead a demonstration on barley and malt quality.

The meetings are sponsored by the Minnesota Wheat and Soybean Research and Promotion Councils, Minnesota Association of Wheat Growers, North Dakota Grain Growers Association, North Dakota Wheat Commission, North Dakota Soybean Council, North Dakota Crop Improvement Association, North Dakota Barley Council, NDSU Institute of Barley and Malt Sciences, University of Minnesota Extension and NDSU Extension Service.

The meetings in Moorhead and Grand Forks will begin at 8:30 a.m. The meeting in Dickinson will begin at 8:55 a.m. and the meeting in Minot will begin at approximately 10:30 a.m. or after the general session of the North Dakota Crop Improvement Association.

Lunch will be provided at each venue. There is no participation fee, but advanced registration is required. Register at [www.smallgrains.org](http://www.smallgrains.org) for Moorhead and Grand Forks meetings and [www.ndgga.com/events.htm](http://www.ndgga.com/events.htm) for Dickinson and Minot meetings. Call 800-242-6118, ext. 13, in Minnesota and 701-325-5111 in North Dakota for questions or to register by phone.

## Dairy Cow College dates set

Sustainability, global issues and controlling feed costs are among the topics for the 2012 Dairy Cow College sessions.

Dairy Cow College is a joint educational effort of the NDSU Extension Service and Midwest Dairy Association in cooperation with the NDSU animal sciences department and Barnes, Dunn, Emmons, McHenry, McIntosh, Morton, Oliver, Stark/Billings, Stutsman and Ward County Extension offices.

The dates and locations for this year’s sessions are:

- Jan. 31: Elks Lodge, Dickinson, N.D.
- Feb. 1: Youth Building, Morton County Fairgrounds, New Salem, N.D.
- Feb. 2: Sandhills Dairy, Towner, N.D.
- Feb. 3: Gladstone Inn and Suites, Jamestown, N.D.

All of the sessions will begin with registration and coffee at 10:30 a.m. local time and run from 11 a.m. to 3:30 p.m.

Other major topics for this year’s Dairy Cow College are the cow of the future, the role of genomics, food safety and social issues, automated milking systems, the dairy industry’s carbon footprint, crisis management and managing labor on a dairy operation.

NDSU Extension dairy specialist J.W. Schroeder will present this year’s sessions.

Other activities will include American Dairy Association and Midwest Dairy Association district meetings, presentations on current dairy topics and a question-and-answer session.

For more information about Dairy Cow College, contact Schroeder at 1-7663 or [jw.schroeder@ndsu.edu](mailto:jw.schroeder@ndsu.edu) or the following Extension agents:

- Linton – Connie Job, [connie.job@ndsu.edu](mailto:connie.job@ndsu.edu), 701-254-4811, or Crystal Schaunaman, [crystal.schaunaman@ndsu.edu](mailto:crystal.schaunaman@ndsu.edu), 701-288-3465
- Dickinson – Kurt Froelich, 701-456-7665, [kurt.froelich@ndsu.edu](mailto:kurt.froelich@ndsu.edu), or Becky Buchmann, 701-764-5593, [becky.buchmann@ndsu.edu](mailto:becky.buchmann@ndsu.edu)
- New Salem – Jackie Buckley, 701-667-3340, [jackie.buckley@ndsu.edu](mailto:jackie.buckley@ndsu.edu), or Rick Schmidt, 701-794-8748, [rick.schmidt@ndsu.edu](mailto:rick.schmidt@ndsu.edu)
- Towner – Raquel Dugan-Dibble, 701-537-5405, [r.dugan-dibble@ndsu.edu](mailto:r.dugan-dibble@ndsu.edu), or Paige Brummund, 701-857-6444, [paige.f.brummund@ndsu.edu](mailto:paige.f.brummund@ndsu.edu)
- Jamestown – Lance Brower, 701-252-9030, [lance.brower@ndsu.edu](mailto:lance.brower@ndsu.edu), or Randy Grueneich, 701-845-8528, [randy.grueneich@ndsu.edu](mailto:randy.grueneich@ndsu.edu)

## Study Abroad Fair scheduled for Feb. 7

The Office of International Programs has scheduled a Study Abroad Fair for Tuesday, Feb. 7, from 10 a.m. to 2 p.m. in Thundar's Den in the lower level of the Memorial Union.

The fair will feature 14 informational tables where students can visit with study abroad program representatives, faculty leaders and returned study abroad students. Interested students can learn more about study abroad programs ranging in duration from a full academic year or semester to a summer or short-term faculty-led program.

"This is a great opportunity for students to connect with program representatives to help determine which program is a good fit," said Tanya Kramer, assistant director of study abroad in the Office of International Programs. "It's also a fun event for returned study abroad students to share their experiences and photos with prospective study abroad students."

For more information on studying abroad, visit [www.ndsu.edu/international/studyabroad](http://www.ndsu.edu/international/studyabroad).

## I-29 Dairy Conference set for Feb. 8-9

The seventh annual I-29 Dairy Conference is scheduled for Feb. 8-9 at the Best Western Ramkota Inn and Conference Center in Sioux Falls, S.D.

The conference will focus on current and future global dairy issues.

Extension Service dairy specialists from NDSU, Iowa State University, University of Minnesota, University of Nebraska and South Dakota State University coordinate the event. Others involved in organizing the conference include the Midwest Dairy Association and Southwest Minnesota Dairy Profit Group.

Conference topics include sustainability, long-range weather forecasting, feed costs, managing risk and seizing opportunities, and the Midwest's economic resiliency. Speakers include Neil Baker, dairy producer and sustainable agriculture award winner from Somerset, England; Mark Seeley, University of Minnesota climatologist; Dave Casper, assistant professor at South Dakota State University; Marin Bozic, dairy economist with the University of Minnesota; Stan Erwine, vice president of producer relations for Dairy Management Inc., Rosemont, Ill.; Clinton Anderson, partner in Bain and Co. Inc., Irving, Texas; and a panel of producers and industry stakeholders.

Registration for the full conference is \$30, including dinner and Erwine and Anderson's keynote presentation on Feb. 8 and sessions on Feb. 9. More information and the full program schedule are available at [www.ag.ndsu.nodak.edu/aginfo/dairy/dairyext/I-29\\_Conference\\_Brochure-FINAL.pdf](http://www.ag.ndsu.nodak.edu/aginfo/dairy/dairyext/I-29_Conference_Brochure-FINAL.pdf). Register by Feb. 1 to ensure room availability at the Ramkota Inn and Conference Center by calling 605-336-0650.

The Milk Producers Association of North Dakota has agreed to co-sponsor attendance and will pay the \$30 registration fee for each North Dakota member attending the conference.

## Advanced Crop Advisers Workshop set for Feb. 9-10

The Advanced Crop Advisers Workshop is scheduled for Thursday and Friday, Feb. 9-10, at the Holiday Inn in Fargo.

The workshop is designed to provide in-depth discussion of selected topics for agricultural professionals to enhance their crop production recommendations for farmers. The event is organized and conducted by the NDSU Extension Service and University of Minnesota Extension.

"This is the 20th year of the event," said Greg Endres, NDSU Extension area agronomist and event co-chair. "The agenda has been expanded this year, and the planning committee is working hard to provide a high-quality program for crop advisers."

The slate of speakers includes regional and national experts discussing subjects including corn, nematodes and sulfur.

On Feb. 9, educational sessions are:

- Management tools
- Sulfur: It's not just for canola anymore
- Biomass crops for producing energy
- Smartphones, sensors and satellites! – Oh my! Navigating through the technology jungle
- CSI (crop scene investigation): Your client's field problem

On Feb. 10, educational sessions are:

- Using the east to improve corn in the west
- In-depth nitrogen
- A soybean pathology update for the region
- Tiling insights
- Seed traits innovation: What's next?

Preregistration is requested. The workshop fee is \$140 if received by Feb. 3 or \$75 if attending one day. Late registration fees are \$175 or \$100 for one day. The fee includes three meals and breaks, a padfolio and numerous references. Certified crop advisers will have the opportunity to receive 11 continuing education units.

A brochure that contains workshop details, including a preregistration form, is at [www.ag.ndsu.edu/CarringtonREC](http://www.ag.ndsu.edu/CarringtonREC). Electronic registration and credit card payment can be made at [www.tinyurl.com/CRECstore](http://www.tinyurl.com/CRECstore).

For further information, contact Endres at the NDSU Carrington Research Extension Center at 701-652-2951 or Phillip Glogoza, Minnesota Extension Service in Moorhead, at 218-236-2008.



## FORWARD Ally trainings set for spring semester

The FORWARD Ally program has scheduled two spring trainings for male faculty – Thursday, Feb. 9, from noon to 1:30 p.m. and Friday, April 13, from 11:30 a.m. to 1 p.m. in the Memorial Union Hidatsa room. Lunch will be provided.

The training will provide male faculty with strategies to help to improve the overall climate for women faculty at NDSU and to identify ways to better recruit and retain women faculty. Registration is required. Male faculty can register for the training by visiting the FORWARD website at [www.ndsu.edu/forward](http://www.ndsu.edu/forward). For more information about the Allies program, contact Tom Carlson, advocate coordinator, at [tom.carlson@ndsu.edu](mailto:tom.carlson@ndsu.edu) or 1-8279 or Canan Bilen-Green, FORWARD director, at [canan.bilen.green@ndsu.edu](mailto:canan.bilen.green@ndsu.edu) or 1-7040.

## NDSU offers farmland leasing workshops

Strong commodity prices and high production costs have made it more difficult for operators and landowners to successfully determine appropriate farmland lease arrangements.

Landowners, renters and other agribusiness professionals with an interest in farmland ownership, management and leasing should plan on attending one of nine farmland leasing workshops across North Dakota presented by the NDSU Extension Service.

The workshops are offered to help landowners and renters identify and manage the risk associated with rental arrangements. Dwight Aakre and Andy Swenson, Extension farm management specialists, and Willie Huot, Grand Forks County Extension agent, will be the main presenters.

The workshops are approximately three hours long. One of the topics is a historical perspective on farmland values and rents, with emphasis on causal factors and future risks. Concepts and practical examples of how to determine equitable rents also will be presented.

The main session will help participants better understand different rental arrangements, such as cash rent, share rent and flexible cash rent.

There will be a session on how producers can improve their land rental negotiations by enhancing the communication process with landowners. This includes the use of resumes, portfolios and frequent communication to keep landowners informed and educated about the operation and vision for a particular tract of land. Some communication pieces will be showcased.

Dates and locations of the workshops are:

- Feb. 13 – Carrington Research Extension Center, 1 p.m. to 4 p.m.
- Feb. 15 – Lisbon, Ransom County Courthouse Community Room, 1 p.m. to 4 p.m.

- Feb. 17 – Cooperstown, Country Club, 9 a.m. to noon
- Feb. 22 – Watford City, McKenzie County Courthouse, 1 p.m. to 4 p.m.
- Feb. 23 – Stanley, Mountrail County Extension Office, 9 a.m. to noon
- Feb. 24 – Minot, North Central Research Extension Center, 10 a.m. to 1 p.m.
- Feb. 28 – Bismarck State College Career Academy Building multipurpose room, 9 a.m. to noon
- Feb. 29 – Jamestown, Farmers Union state office, 1 to 4 p.m.

Contact your county NDSU Extension agent for more details.

## Spring Discover U scheduled for Feb. 15

The spring Discover U is scheduled for Wednesday, Feb. 15, from 8:30 a.m. to 12:30 p.m. in the Memorial Union Great Plains Ballroom. All NDSU staff are invited and encouraged to attend this staff development workshop organized by NDSU's Staff Senate.

This is the second of two Discover U events offered this year, each lasting half a day, in an effort to provide opportunities for more staff to participate without being away from their work an entire day.

The Feb. 15 program, "Desire to Grow from Head to Soul," will be presented by Chris Linnares, author of several books and newspaper articles on health and empowerment, including the award-winning book and social project, "Beautiful Women of North Dakota." Linnares will encourage body-mind-soul connection by combining positive emotions with movement to energize and empower one's life. There will be minimal movement so comfortable clothing is suggested.

Registration forms also have been sent to all staff. The deadline to register is Monday, Feb. 13. Staff can register via the hard copy registration form or online at <http://tinyurl.com/8ysq3s6>. The cost is \$20, which includes coffee and tea in the morning and a lunch of pasta bar, salad and cookies.

## North Dakota University System plans IT Showcase

The North Dakota University System's Information Technology Services will again offer its IT Showcase this semester on a variety of services and products available to all North Dakota University System campuses.

The remaining events for the spring semester include:

- Feb. 23 – CS People Soft 101
- March 29 – New Services – specific topics to be released closer to the presentation date
- April 26 – Interlibrary Loan and U-find

For more information, contact Cheryl Thompson, learning technologies specialist, at [cheryl.thompson@ndus.edu](mailto:cheryl.thompson@ndus.edu) or 1-7876.

## F/M Communiversality offers Dakota Project public forum

F/M Communiversality is offering “The Dakota Project: Re-Imagining the State of North Dakota” on Sundays, Feb. 19 and 26, from 1:30 p.m. to 3:30 p.m. at Concordia College in Moorhead, Minn. John Helgeland, professor of history, philosophy and religious studies, and other members of The Dakota Project will lead the course.

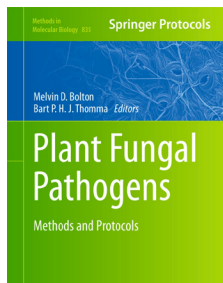
This course will address issues such as North Dakota’s new wealth and growing population in addition to concerns for the environment, an upheaval in the infrastructure of western North Dakota and an increased need for medical services. Participants will hear from members of The Dakota Project and have the opportunity to share ideas for “reimagining” North Dakota. The Dakota Project is a group that advocates new voices and new policies in North Dakota, addressing the importance of education, culture and quality of life.

F/M Communiversality is a program of Concordia College in cooperation with NDSU and MSUM. A “university of the community,” it provides a variety of interesting and engaging courses with no tests, grades or papers for people of all ages and educational backgrounds.

For more information on registering for this or other courses offered by F/M Communiversality or to receive a brochure, call 218-299-3438, email [communiversality@cord.edu](mailto:communiversality@cord.edu) or go to [www.fmcommuniversality.org](http://www.fmcommuniversality.org).

### PUBLICATIONS/PRESENTATIONS

## NDSU researchers contribute to molecular biology book



Several NDSU researchers wrote chapters for “Plant Fungal Pathogens: Methods and Protocols,” *Methods in Molecular Biology* 835 in the Springer Protocols series. Javier A. Delgado, Timothy L. Friesen, Rubella Goswami, Yueqiang Leng, Zhaohui Liu, Samuel G. Markell, Steven Meinhardt, Jayma A. Moore, Scott A. Payne, Viviana V. Rivera, Gary A. Secor and Shaobin Zhong, all associated with

the Department of Plant Pathology, contributed to the book.

The book was published by Humana Press and edited by Melvin D. Bolton of the USDA-ARS Northern Crops Science Laboratory in Fargo and Bart P.H.J. Thomma, Wageningen University, The Netherlands.

Payne and Moore of the Electron Microscopy Center also provided the cover illustration of the fungus *Cercospora beticola* infecting a sugarbeet leaf.

## Assistant professor publishes paper on pancreatic tumor regulator

Erxi Wu, assistant professor of pharmaceutical sciences, co-wrote the review article, “The paracrine Sonic Hedgehog signaling derived from tumor epithelial cells: A key regulator in the pancreatic tumor microenvironment,” which has been accepted by *Critical Reviews in Eukaryotic Gene Expression*.

According to the authors, activation of the Hedgehog signaling pathway is involved in embryo development and tumorigenesis. While normal pancreatic tissue exhibits little Hedgehog pathway activity, patients with pancreatic adenocarcinoma have high levels of Hedgehog pathway signaling in both the tumor epithelia and the surrounding stromal tissue. Hedgehog ligands expressed by pancreatic cancers promote tumor growth indirectly by activating Hedgehog signaling in the surrounding stroma. This paracrine activation of Hedgehog signaling in the tumor microenvironment provides a more favorable environment for tumor cellular proliferation, metastasis and resistance to therapy. Taken together, these findings are of valuable implications for the use of Hedgehog pathway inhibitors currently in development and inhibition of the Hedgehog pathway paracrine loop in pancreatic cancer.

“In this review article, we comprehensively describe that the ability of tumor cell-derived Sonic Hedgehog to act in a paracrine role on the surrounding stroma cells provides a rational explanation to the daunting results of the past studies. Due to the rapid advancement of our understanding of this paracrine phenomenon, future novel therapeutic strategies will be developed and proven to be effective in the treatment of pancreatic cancer,” Wu said. The paper was co-written with Qingyong Ma lab at Xi’an Jiaotong University, China. “We have established a productive collaboration with the Ma lab in finding cancer therapeutics and elucidating the mechanisms of the targeted therapy for pancreatic cancer, one of the most lethal malignancies,” Wu said.

The journal *Critical Reviews in Eukaryotic Gene Expression* presents timely concepts and experimental approaches that are contributing to rapid advances in our mechanistic understanding of gene regulation, organization and structure within the contexts of biological control and the diagnosis/treatment of disease. The journal provides critical reviews, on well-defined topics of immediate interest, written by recognized specialists in the field.

([www.begellhouse.com/journals/6dbf508d3b17c437](http://www.begellhouse.com/journals/6dbf508d3b17c437)).

## NDSU Bookstore associate director to present

Kimberly Anvinson, associate director of the NDSU Bookstore, will present “Benchmarking: Measuring Your Optimal Performance” during a panel discussion at the 2012 Campus Market Expo conference March 1-6 in Salt Lake City.

The Campus Market Expo is the premier educational event for college store professionals, with more than 120 educational sessions, keynote speakers, learning tours and workshops led by professional speakers, industry experts and store colleagues.

## Upper Great Plains Transportation Institute staff present

Several staff members from NDSU's Upper Great Plains Transportation Institute participated in the Transportation Research Board's national meeting in Washington, D.C., Jan. 22-26.

The meeting attracted more than 11,000 transportation professionals from around the world and included more than 4,000 presentations in nearly 650 sessions and workshops covering all modes of transportation. The Transportation Research Board is one of the six major divisions of the National Research Council. Institute staff members presented the following research papers:

"Analyzing Investments Needed to Support Oil and Gas Production and Distribution," NDSU associate director Denver Tolliver – The paper described a study to forecast road investment needs in the oil and gas producing counties of North Dakota during the next 20 years in light of the expected growth. The study focused on roads owned or maintained by local governments. Co-authors were associate research fellow Alan Dybing and former researcher Subhro Mitra.

"County Road Survey for Transportation Managers," Kimberly Vachal, director of the institute's Rural Transportation Safety and Security Center – The paper detailed a survey of North Dakota county road managers regarding safety practices, training and resources. Responses establish a benchmark for understanding common practices and opportunities to promote safety on the state's rural roads. Co-authors included associate research fellow Mark Berwick and Jason Baker, formerly of the Upper Great Plains Transportation Institute.

"Using Laws, Enforcement, and Sanctions to Increase Seat Belt Use on Rural Roads," also presented by Vachal – The paper described a review of enforcement and crash data from rural roads in 32 states. Findings will be useful in promoting more efficient seat belt interventions for rural areas based on alignment with state and local driver characteristics. Co-authors include institute researchers Donald Malchose and Laurel Benson.

"Predicting Truck Crash Involvement: Commercial Driver Behavior-Based Model," Brenda Lantz, director of the institute's Transportation Safety Systems Center – The paper outlined research to identify truck driver behaviors that are significant predictors of future crashes. Co-author of the paper was Micah David Lueck of the American Transportation Research Institute. Lantz also chaired a meeting of the Transportation Research Institute's Truck and Bus Data Subcommittee.

"Marginal Cost Pricing and Subsidy of Small Urban Transit," associate research fellow Jeremy Mattson – The study analyzes economies of scale and density as a rationale for subsidizing transit agencies in small urban areas. The rationale for subsidies is an important issue as many agencies have experienced recent reductions in operational funding. David Ripplinger, formerly of the Upper Great Plains Transportation Institute and now with the NDSU Department of Agribusiness and Applied Economics, was a co-author.

"Transportation and Health Care Use for Older Adults in Small Communities," also presented by Mattson as an invited paper – The study estimated the impacts of transportation and travel distance on utilization of health care services for older adults in rural and small urban areas.

"Application of Attitudinal Structural Equation Modeling to Intercity Transportation Market Segmentation," presented by Mattson – The paper describes research, focused on rural and small urban areas that used modeling techniques to predict various transportation mode shares based on factors such as socioeconomic characteristics and attitudes toward travel time, flexibility and privacy. Co-authors include Ripplinger and associate research fellow Del Peterson.

## Human development and education faculty present and publish

Kevin Miller, assistant professor of athletic training, recently was interviewed by National Geographic magazine. The front-page article, to be published April 2012, will discuss Miller's research on cramping and pickle juice's effects on the body. National Geographic is the world's second-largest English-language magazine with more than 6 million readers per issue.

Denise Lajimodiere, assistant professor of education, was an invited presenter at the US Human Rights Network's National Human Rights Conference held recently in Los Angeles. She presented her research on Native American boarding school survivors, who were instrumental in documenting human rights abuses at the schools.

Brent Young, assistant professor of agricultural and Extension education, published a paper titled "A Profile of Secondary Teachers and Schools in North Dakota: Implications for the Student Teaching Experience in Agricultural Education" in the Journal of Career and Technical Education. The study was an inquiry of secondary teachers' perceptions of the agricultural education student teaching experience in North Dakota.

Emily Thurn, senior in the interior design program, passed the national LEED Green Associate examination on Dec. 19. The Green Building Certification Institute created the LEED Green Associate credential, which is intended for professionals who want to demonstrate green building expertise in nontechnical fields of practice. The credential denotes basic knowledge of green design, construction and operations.

Heather Fuller-Iglesias, assistant professor of human development and family science, and her co-author, Toni Antonucci from the University of Michigan, presented a paper titled "Social Support as a Mediator Between Stress and Depressive Symptoms in Mexican Adults" at the annual meeting of the Gerontological Society of America held in November in Boston.

Elizabeth Erichsen, assistant professor of education, in collaboration with Eric Canen of the Wyoming Survey and Analysis Center (WYSAC) at the University of Wyoming, was awarded a contract with the North Dakota Department of Human Services for the evaluation of the Strategic Prevention Framework State Incentive Grant. The grant is federally funded through the Substance Abuse and Mental Health Services Administration's Center for Substance Abuse Prevention, which is aimed at helping states build the infrastructure and capacity for alcohol, tobacco and other drug (ATOD) prevention programming. The five-year, \$240,000 per annum NDSU and WYSAC joint evaluation project will focus on analyzing streams of state data and state- and community-level needs and progress assessments to evaluate the impact of the grant on ATOD prevention strategies in North Dakota, focusing specifically on underage alcohol usage and adult binge drinking.

Erichsen, with doctoral students Rosalinda Connelley, Christine Okurut-Ibore, Lyn DeLorme, Lisa McNamara and Obaidalah Aljohani, recently presented the paper "A Sociotechnical Systems Approach to a Blended Doctoral Program: An Action Research Project" at the Northern Rocky Mountain Educational Research Association's annual meeting in Jackson Hole, Wyo. Erichsen also presented the paper, "A Comparative Content Analysis of Adult and Continuing Education Handbooks from Germany and the United States," at the Commission of Professors of Adult Education conference in Indianapolis. She and Claudette Peterson also co-presented work with Chris Ray, Nate Wood and Myron Eighmy titled "Re-Visioning an Adult Education Doctoral Program Part I: Generating a Framework and Articulating Our Mission, Vision and

Values," and "Re-Visioning the Doctoral Process Part II: Aligning Curriculum to CPAE Standards and Developing Scholarly Disposition."

Abby Gold, assistant professor and Extension specialist in health, nutrition and exercise science, and Department of Communication Assistant Professors Nan Yu and Elizabeth Crawford have collaborated on a research project investigating overweight children and radio commercial messages. The study, titled "Childhood Overweight: Effects of Informational and Narrative Radio Messages on Parents of Children and Teenagers," has been accepted for publication by the Journal of Health and Mass Communication. The study was designed to serve the welfare of a community in which overweight childhoods have been a longtime concern.

## 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).

### Administrative Secretary

Library  
\$23,000+/year  
Open until filled

### Administrative Secretary

Vice President for Academic Affairs  
\$27,000+/year  
Feb. 1

### Custodian (two positions)

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

### Livestock Research Specialist/#1200002

Carrington Research Extension Center  
Salary commensurate w/ experience  
Feb. 13

### Medical Records and Technology Support Assistant/#00019227

Student Health Services  
35 hrs/week during academic year;  
15 hrs/week in summer  
\$22,230+/year  
Open until filled

### Teacher Technician/#00018736

Center for Child Development  
\$24,000+/year  
Open until filled

### Nursery Technician/#00020146

N.D. Forest Service – Towner, N.D.  
\$28,670+/year  
Feb. 15

### Nutrition Education Assistant, FNP (Fort Berthold, N.D.)

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

### Nutrition Education Assistant, FNP – Sioux County

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

### Web Technology Specialist/#00027801

Agriculture Communications  
\$40,000+/year  
Jan. 31

### Technical Director/#00021434

Northern Crops Institute  
Salary commensurate w/experience  
Feb. 1

### Hall Director

Residence Life  
\$31,500+/year  
Feb. 3

### Access Services Librarian/#00018897

Library  
\$44,000+/year  
Feb. 6

### Research Specialist – Animal Sciences/ #00021254

Carrington Research Extension Center  
Salary commensurate with experience  
Feb. 13

### Budget Analyst

Budget Office  
Salary commensurate w/ experience  
Open until filled

### Archivist/#00021104

Library  
\$44,000/year  
Open until filled

### Veterinary Technician/ Veterinary Technologist

Animal Sciences  
\$28,000+/year  
Open until filled

### HPC Systems Administrator

Computationally Assisted Science and Technology  
Salary commensurate w/experience  
Open until filled

### Nutrition Laboratory Technician

Animal Sciences  
\$19,500+/year  
Open until filled

### Histology Laboratory Coordinator/ #00027420

Animal Sciences  
\$22,000+/year  
Open until filled

### Bio/Immunoassay Laboratory Coordinator/ #00027419

Animal Sciences  
\$22,000+/year  
Open until filled

### Research Specialist – Agronomy/ #00019691

Carrington Research Extension Center  
Salary commensurate w/experience  
Feb. 29

### Research Specialist/#00021084

Plant Sciences  
\$30,000+/year  
Feb. 1

### MPH Program Coordinator

Pharmacy Practice (Master of Public Health)  
\$39,000+/year  
Feb. 1



## CALENDAR

## JANUARY

31 **Science, Religion and Lunch Seminar: “No One Gets Out of Here Alive: On Not Surviving Death,”** – Dennis Cooley, noon, Memorial Union Meadow Lark room

## FEBRUARY

1 **Black History Month: “Celebration of Women and Their Music”** – noon to 1 p.m., Memorial Union Arikara room. Singing performance by Rosie Sauvageau plus history about the 15th annual Fargo tradition, “Celebration of Women and Their Music”

2 **Department of Chemistry and Biochemistry Seminar: “New Cationic and Metal Mediated Cyclization Reactions for the Synthesis of Natural Products and Related Compounds”** – Thomas S. Livinghouse, Montana State University, Bozeman, 4 p.m., Ladd room 107

2 **Men’s basketball vs. Southern Utah** – 7 p.m. Bison Sports Arena

3 **Plant Pathology Graduate Seminar: “Root rot of chicory (*Chichorium intybus* L.) caused by *Phytophthora cryptogea*”** – Johanna Villamizar R., 1 p.m., Loftsgard room 114

3 **Plant Pathology Graduate Seminar: “The role of a velvet-like complex in fungal development and virulence of the cereal pathogen *Cochliobolus sativus*”** – Rui Wang, 1 p.m., Loftsgard room 114

4 **Bison basketball doubleheader vs. Oral Roberts** – Women’s game at 5 p.m. and men’s game at 7:30 p.m., Bison Sports Arena

6 **Women’s basketball vs. Southern Utah** – 7 p.m. Bison Sports Arena

7 **Study Abroad Fair** – 10 a.m. to 2 p.m., Thundar’s Den, Memorial Union lower level – sponsored by the Office of International Programs

7 **Science, Religion and Lunch Seminar: “Leaving Social Religion”** – Teresa and Kent Klostereich, noon, Memorial Union Meadow Lark room

8 **Brown Bag: “Personal Experiences, Choices and Challenges of Breast Feeding on Campus”** – panel, noon to 1 p.m., Memorial Union Arikara room

10 **Plant Pathology Graduate Seminar: “Movement and accumulation of *Candidatus liberibacter solanacearum* in potato plants”** – Juan Rodriguez, 1 p.m., Loftsgard room 114

15 **Spring Career Fair** – 10 a.m. to 3 p.m., Fargodome – sponsored by the Career Center

15 **Brown Bag: “seriously? ... omg ... GYT”** – noon to 1 p.m., Memorial Union Meadow Lark room

15 **“Sex Signals” presentation** – 6 p.m., Memorial Union Great Room. A provocative, in-your-face look at issues surrounding dating, sex and date rape on college campuses.

16 **Black History Month: “Step Show”** – 6 p.m., Festival Concert Hall, Reineke Fine Arts Center

17 **Plant Pathology Graduate Seminar: “Control of *Rhizoctonia* root rot of sugar beet using Azoxystrobin”** – Afsana Noor, 1 p.m., Loftsgard room 114

17 **Plant Pathology Graduate Seminar: “Unraveling the complexity of the chromosome 6H net form net blotch resistance locus in barley”** – 1 p.m., Loftsgard 114

18 **Black History Month: “Pan Africa Night”** – 7 p.m., Festival Concert Hall, Reineke Fine Arts Center

22 **Black History Month: “Making Fiction, Making History”** – noon, Memorial Union Arikara room. An introduction to three of the most important African American creative writers of the first half of the 20th century.

23 **World iView: “Every Brick Tells a Story: Study Abroad as an Extraordinary Experience”** – Newell Wright, noon to 1 p.m., Memorial Union Meadow Lark room. Sponsored by the Office of International Programs.

24 **Pride Network Meeting** – noon, contact [kristen.benson@ndsu.edu](mailto:kristen.benson@ndsu.edu) for room location.

24 **Plant Pathology Graduate Seminar: “QTL analysis of *P. teres* for Net form Net Blotch disease on barley,”** – Rachel Shjerve, 1 p.m., Loftsgard room 114

24 **Plant Pathology Graduate Seminar: “Characterization of fungicide resistance in *Cercospora beticola*”** – Keshave Birla, 1 p.m., Loftsgard room 114

26 **Black History Month: “Community Gospel Concert”** – 2 p.m., Beckwith Recital Hall

27 **Women’s Week: “Show Me the Money!” Negotiating Your Way to a Bigger Payday”** – noon, Memorial Union Hidatsa room

27 **Women’s Week: Spirit rally for final women’s basketball game vs. Indiana University-Purdue University Indianapolis** – 6 p.m., Equity and Diversity Center. Wear your green and yellow and enjoy pre-game snacks.

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

**NEXT ISSUE** Publication date: Wednesday, Feb. 15 | Submissions due: Feb. 10 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)

*North Dakota State University does not discriminate on the basis of age, color, disability, gender expression/identity, genetic information, marital status, national origin, public assistance status, race, religion, sex, sexual orientation, or status as a U.S. veteran. Direct inquiries to the Vice President for Equity, Diversity, and Global Outreach, 205 Old Main, (701) 231-7708.*

**NDSU**