

NDSU

VOLUME 3 ISSUE 16

IT'S HAPPENING AT STATE

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NDSU announces \$2 million gift from Stop-N-Go

Stop-N-Go owners Sheila Carney and Henry Knoll announced a gift of \$2 million to NDSU and the athletic department's Building the Competitive Edge \$32 million campaign. The gift will go toward the naming of the Shelly Ellig Indoor Track and Field Facility.

NDSU President Dean L. Bresciani, along with Development Foundation Associate Executive Director Jason Wohlman and Director of Athletics Gene Taylor, accepted the gift.

Ellig, who died last year, was an avid philanthropist and sports enthusiast. His presence lives on throughout the region, Fargo-Moorhead community and NDSU. The university has the Ellig Sports Complex, which includes the outdoor track and field facility, and soccer and softball fields.

Bresciani said NDSU commands a powerful niche as a student-focused, land-grant research university, where athletics play an important role. "The generosity of friends like Stop-N-Go is critical to our ability to continue to serve our students and our state," he said. "I've witnessed a remarkable level of commitment and enthusiasm, and on behalf of our student-athletes and the entire university, I want to thank these donors."

The 78,000-square foot indoor track and field facility, which seats 1,000, includes a 200-meter, eight-lane track with 42-inch wide

lanes with additional practice lanes on the straight-away. There also are multiple long jump, triple jump and pole vault runways, along with a shot-put and weight throw sector on the infield.

Taylor said, "We're very pleased with the generosity from Shelly Ellig. We're excited to have his name again associated with an outstanding athletic facility here at NDSU. It's very fitting to have this facility named after Shelly based on our long-term relationship with Shelly and Stop-N-Go."

The Building the Competitive Edge Campaign will provide an extension and renovation of the Bison Sports Arena that will transform the facility and the surrounding area, including the track and field venue, into a leading Division I athletic complex. Additionally, it will serve as the "front door" venue, welcoming student-athletes and campus guests with the Bison Athletic Hall of Fame, Hall of Champions and various fan services and facilities.

A two-court basketball practice facility will be added to the southwest corner of the existing structure. The west-side addition will house human performance facilities, including strength training, sports medicine and rehabilitation areas. The renovated Bison Sports Arena also will have an academic center for student-athletes.

ND research universities report positive enrollment figures

North Dakota's two research universities are both reporting positive numbers on the first full day of enrollment. NDSU officials report enrollment is holding steady compared with last year at this time. University of North Dakota officials say first day numbers are up 4.8 percent compared with last year. The official enrollment count is taken four weeks into the semester.

NDSU has 14,240 students enrolled in its undergraduate, professional and graduate programs compared to fall 2010 first day count of 14,204.

NDSU has 3,147 new undergraduates with 2,444 freshman and 703 transfer students. The number of international students is 1,165. Graduate students are up 44 to 1,899. NDSU first day enrollment reports show more than 95 percent of students are in traditional classroom-based courses.

UND's first day enrollment is 14,076, an increase of 645 over last year's initial day tally of 13,431. UND showed good growth for the first day of classes. The UND Graduate School showed the best growth with 2,556 students, up 7 percent over last year's tally

Continued...

NDSU 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.

Deadline set for Sept. 15 It's Happening at State

The next electronic issue of It's Happening at State will be posted Sept. 15 at www.ndsu.edu/ihas. Submissions for that issue are due Sept. 12.

NDSU closed for Labor Day

NDSU will be closed Sept. 5 for Labor Day Holiday.

Donations sought

The Equity and Diversity Center is collecting non-perishable and freezable food items and warm winter gear for students in need. To donate, call 1-5728.

of 2,400. UND has 2,945 new undergraduate students, an increase over last year's 2,925 students. Transfer students are up 4 percent, 841 compared to 812. New freshman numbers are down slightly by nine students, 2,104 compared to 2,113. UND also showed a 2 percent increase in professional students (medicine and law), 504 compared to 496. And the number of returning undergraduate students is up 6 percent, 8,071 compared to 7,610.

NDSU President Dean L. Bresciani said because of some legislators' concerns about NDSU's growth, the university did what it could to moderate new student enrollment while the topic is being examined. Bresciani said that enrollment growing slightly in spite of those efforts suggests how in demand NDSU has become. "We are a Top 100 research university offering an exceptional educational experience to a purposefully sized student body of degree seeking students with appropriate academic credentials for success. Students see the quality and affordable value of the NDSU experience – a degree from one of the top student-focused, land-grant research universities in the country. There are few, if any other land-grant universities that conduct research at our quality and quantity, but remain student focused."

UND President Robert O. Kelley said, "I am pleased by the positive trends we see in the university when it comes to enrollment growth, from new undergraduate students to the graduate and professional level."

Grafton appointed interim vice president



Grafton

NDSU President Dean L. Bresciani and Provost Bruce Rafert announced Ken Grafton, dean of the College of Agriculture, Food Systems, and Natural Resources and director of the North Dakota Agricultural Experiment Station, also will serve as interim vice president for agriculture and university extension, effective Aug. 22.

Bresciani and Rafert made the announcement Aug. 15 after the State Board of Higher Education named NDSU Vice President for Agriculture and University Extension D.C. Coston acting president at Dickinson State University. They asked Grafton to take the combined leadership role while the organization of the agriculture and Extension enterprises at NDSU are reviewed.

"Dr. Grafton is an ideal leader for this period," Bresciani said. "His work as dean of the academic area and director of the Experiment Station will meaningfully connect with Extension Service efforts. I greatly appreciate his willingness to lead during this opportunity to look for ways to further enhance how NDSU serves the state, nation and the world."

Grafton has been with NDSU since 1980, on the faculty of the Department of Plant Sciences, and also has served as associate dean of the Graduate School. He became director of the Experiment Station in 2002 and dean of the college in 2005.

"Dr. Coston's exceptional expertise and contributions to NDSU have not gone unnoticed," Bresciani said. "D.C.'s reputation at the federal and state level have elevated NDSU in a variety of venues. I anticipate he will apply the same strengths at our sister institution in Dickinson."

President's Welcome kicks off fall semester



Donovan Dobler (center) enters NDSU's campus with student body president Cam Knutson and NDSU President Bresciani on the first day of the 2011 fall semester. Dobler, a freshman majoring in computer science from Tower City, N.D., was the first student to be admitted for the fall semester.

Hundreds of students, faculty and staff gathered for the annual President's Welcome Aug. 22 near the main university gate to kick off the fall semester.

The Welcome Week event is intended to greet new students and give them a chance to meet faculty, staff and students. The NDSU Gold Star Marching Band, Thundar, Cheer Team and Yell Leaders participated. Featured speakers included President Dean L. Bresciani and Cam Knutson, student body president.

Knutson offered advice for incoming students: reach out to new people, get involved in student organizations and take advantage of academic opportunities such as participating in research. "Work hard and apply yourself each and every day. Be sure to have fun and enjoy the experiences that are sure to come," Knutson said. "Being a Bison is unlike anything else you are going to find. There is opportunity around every corner."

Bresciani introduced Donovan Dobler, the first student to be admitted for the fall semester. Dobler is a freshman majoring in computer science from Tower City, N.D., and had just returned from training for the Army National Guard. Bresciani presented Dobler with a challenge coin, a military tradition to signify meeting someone important, to symbolically welcome all students to NDSU.

"My message for you is very short and very clear. This is your year," Bresciani said.

He said NDSU is breaking records, such as number of graduates, job placement, rate of pay, number of student organizations, athletic successes and amount of national media attention as a top university. He also mentioned NDSU is now ranked the top university in the state of North Dakota. "This is your year; your year to make history," he said.

Students then separated for respective college events.

Free refreshments and yellow Bison T-shirts were handed out to students so they may join the tradition of wearing school colors to home athletic events.

The first day of fall classes was Aug. 23.

Carlson named top 30 honoree for NCAA Woman of the Year



Carlson

NDSU track and field athlete Whitney Carlson has been selected as a top 30 honoree for the 2011 NCAA Woman of the Year award. Thirty women, 10 from each NCAA membership division, were selected to the top 30.

Carlson is the second NDSU student-athlete, and the second from the state of North Dakota, to earn the top 30 distinction at the Division I level.

Laura (Hermanson) Januszewski also garnered the honor in 2009. Prior to the change in the award process in 2007, the Bison also had six student-athletes named state Woman of the Year honorees.

"The culmination of the many academic and athletic accomplishments of Whitney is highlighted by her being named a top 30 recipient for the NCAA Woman of the Year Honors," said Lynn Dorn, women's athletic director. "This tribute is indeed an extraordinary honor. We salute the many exceptional achievements Whitney has earned in the classroom and in competition. Truly, Whitney defines the meaning of a student-athlete. Our pride is immeasurable."

The Buchanan, N.D., native was a five-time All-American who also excelled in the classroom. She graduated with a 4.0 grade point average, and earned CoSIDA Academic All-America first team honors as a junior and senior.

Carlson was awarded an NCAA Postgraduate Scholarship and also received the NCAA Elite 88 Award at the 2011 NCAA Outdoor Track and Field Championships, which is awarded to the competitor with the highest grade point average. She was named the 2011 Summit League Women's Scholar-Athlete of the Year, and currently is attending dental school in Nebraska.

Carlson was named Summit League Field Athlete of the Year three times, a 17-time Summit League champion and was a league championship MVP five times. She set six school records during her career.

Now in its 21st year, the Woman of the Year Award honors female student-athletes who have distinguished themselves throughout their collegiate careers in academic achievement, athletics excellence, community service and leadership.

To be eligible for the award, a student-athlete must have completed intercollegiate eligibility in her primary sport by the end of the 2011 spring season, graduated no later than the end of the summer 2011 term and achieved a minimum cumulative grade point average of 2.5. Last year's winner, Justine Schluntz, was an NCAA swimming champion and 2010 Rhodes scholar from the University of Arizona.

Sharon Beverly, NCAA Woman of the Year selection chair and director of athletics and physical education at Vassar College, said the award is one of the most prestigious honors presented to a female student-athlete each year.

"This award catapults the recipient into the next phase of her life and paves the way for a successful future in any chosen profession,"

Beverly said. "When you consider the academic and athletic accomplishments of each of the candidates for this award and the ways they have given back to society, the Woman of the Year honorees are the top echelon of NCAA role models."

The top 30 honorees were nominated by conference and independent members and represent multiple sports. Three finalists will be chosen from each division to form the nine finalists for the Woman of the Year award.

The national winner will be chosen by the NCAA Committee on Women's Athletics and announced in an Oct. 16 ceremony in Indianapolis.

NDSU president throws out first pitch at Twins game



President Bresciani throws out the first pitch before the Aug. 24 Twins game at Target Field in Minneapolis.

NDSU President Dean L. Bresciani threw out the first pitch before the Minnesota Twins versus Baltimore Orioles baseball game on Aug. 24 at Target Field in Minneapolis.

Bresciani said the high profile and fun opportunity brought attention to NDSU. "It was terrific publicity for NDSU in the Twin Cities metropolitan area. Many NDSU graduates are working in the area, and more and more Minnesotans are coming to know about our rising status as a nationally top-ranked research university," Bresciani said.

The offer to throw out the first pitch came from Dave St. Peter, president of the Twins, who attended the Sport and Recreation Leadership luncheon at NDSU on April 29.

Thomas Barnhart, professor of health, nutrition and exercise science, leads the Sport and Recreation Leadership program. NDSU students Corey Johnson and Hillary Tyler are working internship positions with the Twins.

"This was a wonderful opportunity for President Bresciani and NDSU," Barnhart said. "And it gave us a lot of visibility for our program."

Fargo listed among best college towns in nation

Fargo, the home of NDSU, has been ranked among the top 10 college towns in the country by Livability.com. The website placed Fargo 10th on a list including such communities as Louisville, Ky.; College Station, Texas; Auburn, Ala.; Ann Arbor, Mich.; Madison, Wis.; and Boulder, Colo.

According to the website, the cities "give the student great places to learn, grow and play, while at the same time giving residents the benefits that come with being near a vibrant educational institution. In a nutshell, they've got a lot to offer whether you're after a degree, a new career or a place to settle down."

Prakash Mathew, NDSU vice president for student affairs, said, "Even though this may be a new revelation for many, those of us who have spent many years in Fargo have been reaping the rewards of the quality of life in this city. I am delighted that Livability.com discovered this special place, which I am sure will entice our prospective students and their parents to take a closer look at NDSU to enhance their academic experience."

Jobey Lichtblau, NDSU director of admission, said the recognition by Livability.com is another example of how prospective students continue to discover the opportunities for NDSU students living in Fargo.

"National publicity like this listing sparks curiosity and helps prospective students and parents realize the advantages existing here that we have all known for a long time," said Lichtblau. "Campus visitors who have never been to NDSU or Fargo are always impressed and pleasantly surprised with what they find when they arrive."

He notes a recent article about NDSU in the Wall Street Journal prompted calls and visitors from Florida, California, Texas and Washington. Lichtblau expects the Livability.com listing to do the same.

Livability.com's description of Fargo states, "In a city made famous by cold weather and the Coen brothers, college-goers are quickly warming up to the idea of going to school here. Home to multiple campuses, Fargo has earned the reputation of a bona fide college town, but that's only half the attraction. With a low unemployment rate and plenty of entertainment options, Fargo is fast becoming a location destination of choice."

For more information, visit <http://livability.com/top-10>.

NDSU pursues insurance coverage for Minard Hall

As part of ongoing efforts to diligently pursue all available means of cost recovery for Minard Hall following the Dec. 27, 2009, collapse, NDSU has commenced a declaratory lawsuit against the North Dakota State Fire and Tornado Fund for a judicial interpretation of its insurance policy with the fund.

The fund has initially interpreted NDSU's property damage insurance policy as not providing coverage for the collapse and has denied insurance coverage to NDSU for losses caused by the collapse.

NDSU believes it has coverage.

In addition to this action to determine insurance coverage, NDSU is continuing to look at whether others may be legally responsible for some or all of the losses resulting from the collapse.

NDSU is represented by Dan Hull with the Anderson Bottrell Law Firm of Fargo.

Education doctoral programs join Carnegie project

The education doctoral programs at NDSU recently have been accepted as a participating member of the Carnegie Project on the Education Doctorate. Sponsored by the Carnegie Foundation for the Advancement of Teaching and the Council of Academic Deans from Research Education Institutions, and funded by the Fund for the Improvement for Post-Secondary Education, the project is a collaborative effort to critically examine the professional doctorate in education, the Ed.D. The CPED project aims to redesign the Ed.D. to better prepare education practitioners in the nation's schools, colleges and educational organizations, and to better differentiate the degree from the research doctorate in education, the Ph.D.

As participants in the Carnegie project, NDSU's education doctoral programs have committed to collecting empirical evidence to inform decision making concerning the curriculum in both the Ph.D. and Ed.D. programs in education at NDSU and to evaluate ongoing reform efforts. Program faculty also will have the opportunity to interact with education scholars from the Carnegie Foundation and other leading scholars across the nation to continue dialog concerning the purpose of the professional doctorate. Faculty in the education doctoral programs involved in the project include Chris Ray, principal investigator for the project; Myron Eighmy, education doctoral programs coordinator; Elizabeth Erichsen, Claudette Peterson and Nathan Wood. Additional support for the project is provided by William Martin, head of the School of Education; Virginia Clark Johnson, dean of the College of Human Development and Education; and David Wittrock, dean of the College of Graduate and Interdisciplinary Studies.

Participation in the project follows a yearlong critical review of the education doctoral programs' curriculum that has resulted in differentiating NDSU's Ph.D. and Ed.D. programs and clearly articulating both tracks of the programs. Through the process, the programs' mission, vision and core values have been updated to better reflect professional standards with an emphasis on content expertise, disciplined inquiry and scholarly disposition. Degree plans for the two program tracks, Institutional Analysis and Occupational and Adult Education, also have been updated to enhance student learning and better achieve program objectives. Participation in the Carnegie project is considered a big step toward achieving national recognition for both of NDSU's doctoral programs.

Northern Crops Institute names new director

Mark Weber has been named director of Northern Crops Institute after a national search. He will assume his new duties Sept. 19.

Weber has more than 18 years of experience in agricultural leadership. He served as the executive director for the Red River Valley Sugarbeet Growers Association for 12 years and, previous to that position, he was the first executive director of the North Dakota Soybean Council and Growers Association for nearly six years.

"This is a wonderful opportunity," Weber said. "Agriculture has an exciting future filled with challenges. The Northern Crops Institute has had a strong role in agriculture's past successes and has an impeccable reputation regionally and nationally, as well as worldwide."

Robert Majkrzak, chair of the Northern Crops Council, said, "Mark brings to NCI a unique blend of agriculture leadership, involvement with commodity groups, work on legislative issues and most importantly, his experience as a grower. These broad experiences will continue to enhance Northern Crops Institute's long established world reputation for promoting crops. Mark's energy, vision, communication and leadership skills will make him a pleasure to work with."

Weber earned both his bachelor's degree in mechanized agriculture and agronomy and his master's degree in agricultural economics from NDSU.

Weber is a widower with two children — Harrison, a college sophomore, and Sheyenne, a high school junior. They live in Casselton, N.D., where Weber also is involved in his family's farm.

He replaces Brian Sorenson, who left in March to join Dakota Specialty Milling, Fargo.

Nursing faculty awarded grant



Heuer

Loretta Heuer, professor of nursing, and Dean Gross, assistant professor of nursing, received a three-year Health Resources and Human Services Administration Advanced Education Grant Award in the amount \$938,122.



Gross

The purpose of the NDSU Department of Nursing post-master's program to Doctor of Nursing Practice Family Nurse Practice is to prepare doctor of nursing practice family nurse practitioners to provide health care services for underserved and/or rural populations. In collaboration with NDSU Distance and Continuing Education, this distance post-master's program will enable master's prepared registered nurses to pursue a doctor of nursing practice with eligibility to write for family nurse practitioner certification. This proposed program builds upon an existing bachelor of science in nursing – doctor of nursing program at NDSU.

Department's program engages high school students in science



Sivaguru Jayaraman with PICNICS students (left to right) - Amy Yu, Tyler Ridl, Benjamin Court and Kristina Rindy.

The Department of Chemistry and Biochemistry hosted students from Fargo high schools during the summer as part of the PICNICS (Parents Involvement with Children, Nurturing Intellectual Curiosity in Science) program. The program aims to inform parents and their children about recent advancements in science and technology, and encourage ninth through 12th graders to consider science as a career path.

Four students participated in the 2011 summer program and were selected based on recommendations from their teachers. They were Tyler Ridl and Wei (Amy) Yu from Fargo South High School, and Kristina Rindy and Benjamin Court from Fargo North High School. They worked alongside graduate students and postdoctoral fellows and carried out research.

The PICNICS program was conducted in collaboration with Todd Bertsch, principal at Fargo South High School; Carol Beaton, advanced placement science teacher at Fargo South High School; Mark Blanshan, vice-principal at Fargo North High School and Terri Court, counselor at Fargo North High School.

Sivaguru Jayaraman, Mukund Sibi, Greg Cook and John Hershberger, all faculty from the chemistry and biochemistry department, hosted students in their research groups. At the end of the program, the students presented a poster on the research carried out at a reception hosted by the department and Center for Protease Research. Parents and friends of participating students, NDSU students and faculty, teachers and the principal of South High attended the poster session. Kevin McCaul, dean of the College of Science and Mathematics, presented certificates of completion to students in recognition of their research contribution during the PICNICS summer program.

"Informing both parents and their children in organized settings regarding the importance of science and technology will help them make informed decisions toward science and math when considering college majors and career paths," said Jayaraman, program director and associate professor of chemistry and biochemistry. The PICNICS program was initiated with funding from the National Science Foundation CAREER Award to Jayaraman (CHE-0748525).

Visit http://sivagroup.chem.ndsu.nodak.edu/outreach/PICnics_Program.html for more information.

Management and supervisory leadership sessions offered

The Division of Finance and Administration and the Office of the President will again sponsor Genuine Leadership, a management and supervisory leadership program. The 12 sessions will start Sept. 9 and go through mid-December. The course is open to all managers and supervisors at the university, but does not cover issues specific to faculty. The following topics will be covered:

Core interpersonal skills:

- Principles and qualities of genuine leadership
- Providing constructive feedback
- Addressing emotions at work

Individual/team performance:

- Resolving conflicts within your team
- Clarifying performance expectations
- Correcting performance problems
- Developing team agility: day-to-day tools
- Giving recognition
- Speaking to influence others

Organizational impact:

- Developing others
- Managing change
- The hallmarks of supervisory success

NDSU/North Dakota University System:

- Supervising in the public sector environment

The program has received positive feedback from more than 250 NDSU employees who have completed the course.

Genuine Leadership replaces Frontline Leadership, and is designed for frontline managers and supervisors. It addresses universal leadership qualities and principles that help managers and supervisors become genuine leaders who can translate their goals into reality. Based on the most current management research, this program assists in developing people into leaders who can tackle tough business decisions, inspire others to take action and create effective work relationships within NDSU.

The cost for the course is \$500. Staff should discuss funding options with their supervisor. If your department cannot provide funding, contact your vice president's office for possible options.

For more information about Genuine Leadership or a registration form, contact Cyndi Baumann in the Office of Human Resources/ Payroll at 1-8961 or cynthia.baumann@ndsu.edu.

Employees donate heirlooms to NDSU Libraries collection

Laura Oster-Aaland, director of orientation and student success, and Carmen Rath-Wald, Logan County Extension agent, recently made archival donations to the NDSU Libraries' Germans from Russia Heritage Collection to preserve and promote their family culture and heritage.

Oster-Aaland, a Hazen, N.D., native, donated her grandmother's family textiles and clothing items, handmade fabric dolls, historic photographs and audio interviews of her grandmother, Martha (Pfening) Heihn.

"The day I took the items to the GRHC for the staff to look at, I was honored by the appreciation they showed for my family heirlooms," Oster-Aaland said. "They were incredibly knowledgeable and I knew that these heirlooms would be in good hands, with people who understood their cultural significance ... the GRHC is a treasure and I am proud that it has a home at NDSU."

Rath-Wald, a Wishek, N.D., native, donated many family baptismal, confirmation and wedding certificates, hymnals and a German-Russian shawl relating to her Hauck and Rath family roots.

Rath-Wald donated to the collection for two reasons. "It is important for me to honor my ancestors by keeping their stories alive, and I think it is important for my children and grandchildren to learn about their ancestors to help them be grounded in the current hectic, impersonal world," she said. "As educators we have a responsibility to future generations to preserve history, and the GRHC is a credible, respectful and respected organization that will help us in our efforts."

Donations such as historic photographs, family documents, letters, certificates, textiles and clothing continue to support the unique culture of the Germans from Russia in North Dakota and the Northern Plains. The Germans from Russia started settling the Dakotas in the 1870s and have grown to become one of the largest ethnic groups in North Dakota. In addition to archival donations, the Germans from Russia Heritage Collection is one of the major collections of German-Russian scholarly resources in the world. To date, the collection has 12,000 cataloged books and media on the subject of Germans from Russia.

To learn more about the NDSU Libraries' Germans from Russia Heritage Collection or to donate, go to <http://library.ndsu.edu/grhc/> or visit room 114 in the Main Library.

Cooperative Sponsorship Committee proposals requested

The Cooperative Sponsorship Committee invites departments and colleges to submit funding requests for the 2011-12 academic year.

The committee was established to assist departments and colleges in bringing guest lecturers and artists to campus. It promotes joint sponsorship of a wide range of lectures and related public events on timely topics for NDSU and the Tri-College community.

All requests should be submitted electronically via the committee website. Complete request guidelines and the request form are available at www.ndsu.nodak.edu/ndsu/csc.

In some years, all funds have been allocated during fall semester. Funds available after March 1 will be allocated at the discretion of the committee on a first-come, first-served basis. To ensure maximum use of limited available funds, the committee suggests joint departmental and inter-college program sponsorship.

The Cooperative Sponsorship Committee members include:

- Glenn Dorsam, chair (glenn.dorsam@ndsu.edu), College of Science and Mathematics;
- Bahman Bahrami (bahman.bahrami@ndsu.edu), College of Business;
- Carla Gross (carla.gross@ndsu.edu), College of Pharmacy, Nursing, and Allied Sciences;
- Janna Stoskopf (janna.stoskopf@ndsu.edu), Memorial Union director;
- Cindy Urness (cindy.urness@ndsu.edu), College of Engineering and Architecture; and
- Juan M. Osorno (juan.osorno@ndsu.edu), College of Agriculture, Food Systems, and Natural Resources.

YMCA of NDSU changes name

The YMCA of NDSU has been renamed Compass Program Foundation. The program's services will remain the same.

"As a campus 'Y,' the focus of the organization no longer fit with the revised constitution of the national YMCA organization. Compass Program Foundation is all about programs, events, students, faculty and staff at NDSU," according to Sue Andrews, executive director for Compass Program Foundation.

The first two Brown Bag Seminars are scheduled Sept. 9. In honor of Constitution Day, a reading of the Constitution is planned for 11 a.m. to noon in Thundar's Den in the Memorial Union and a panel discussion, "International Perspectives on Citizenship," is planned for noon to 1 p.m. in Memorial Union Prairie Rose room.

For more information, contact Sue Andrews at susan.andrews@ndsu.edu or 1-5225.

Lawrence Welk music arrangements index available online



Sheet music from Lawrence Welk Collection

Arrangements for Lawrence Welk's famous "Champagne Music" are now available online.

The NDSU Institute for Regional Studies, through its online database at <http://library.ndsu.edu/db/welk/>, is providing access to about 10,000 music arrangements used by the Lawrence Welk Orchestra and its individual performers.

Most were used on Welk's long-running television show that aired from 1955 to 1982.

"This collection is truly a national treasure," said John Bye, director and university archivist. "The institute over the years has received many requests from across the country for Welk arrangements. We are pleased to be able to provide easy online access to the collection."

The Welk music arrangements form the core of the Lawrence Welk Collection donated to NDSU by the Welk family in 1993.

The online database can be searched by title and title term, which allows a search for a specific title or a particular word in all titles. For instance, searching the term "champagne" will list 44 records, from "Blue Champagne" to "Night They Invented Champagne." The database also may be browsed by performer, arranger and full title.

Each arrangement record includes title, arrangement number, arranger, performers, music key, instrumentation with the number of parts for each and notes.

For more information on the arrangements and the Welk collection, contact Bye at 1-8877 or john.bye@ndsu.edu.

TechGYRLS registration opens

TechGYRLS, a 10-week after-school program to introduce young women to science, technology, engineering and mathematics disciplines, is now accepting registrations.

The program, for third through seventh grade girls, is held on NDSU's campus and is sponsored by the College of Engineering and Architecture and the NDSU student chapter of the Society of Women Engineers.

Participants will engage in a variety of activities led by NDSU women engineering students, from designing a robot to blasting a rocket or learning about forensics.

Classes will meet from 4 p.m. to 6 p.m., starting Sept. 12. Grades three and four will meet on Mondays. Grades five, six and seven will meet on Tuesdays.

The cost for the program is \$45. Registration is open and is on a first-come, first-served basis. Visit www.ndsu.edu/cea to register and click on the TechGYRLS link. For more information, contact nancy.rossland@ndsu.edu or 1-7994.

Extension Service among top 10 workplaces



Extension staff accept a Top 10 Young Professional Workplaces award from members of Bismarck-Mandan's Young Professional Network.

Bismarck-Mandan's Young Professionals Network has named the NDSU Extension Service as one of the top 10 workplaces for young professionals.

The Top 10 Young Professional Workplaces award recognizes local businesses committed to recruiting and retaining talented young professionals under age 40.

Selection criteria include compensation, benefits, opportunity for advancement, company programs, quality of life and work environment, community involvement and how young employees are involved in strategic planning and executive decisions.

This year's top 10 were selected from among 22 nominees, the largest pool of nominees since the award was established in 2007.

FORWARD hosts external advisory board

The FORWARD project's five-member external advisory board will make its third visit to NDSU Sept. 15-16. During their visit, board members will meet with President Dean L. Bresciani, Provost J. Bruce Rafert, FORWARD leadership and team members, and several key administrators. They also will serve as panelists for a session for women faculty titled "Advancing to Academic Leadership Positions" on Friday, Sept. 16. Laura Kramer, one of the board members, will offer a workshop for department heads/chairs titled "Enhancing Climate at the Department Level: Practical Suggestions and Tips for Chairs/Heads" on Thursday, Sept. 15, from 3 p.m. to 5 p.m. Registration is requested for either session and may be completed on the FORWARD website at www.ndsu.edu/forward.

In addition to Kramer, professor emerita of sociology and women's studies at Montclair State University, the external advisory board includes Susan Carlson, vice provost for academic personnel, University of California; Christine Hult, associate dean of the College of Humanities, Arts and Social Sciences, Utah State University; Peggy Johnson, department head and professor of civil engineering, Penn State University; and Jennifer Sheridan, executive and research director, Women in Science and Engineering Leadership Institute, University of Wisconsin-Madison.

Veterans Upward Bound receives surprise donation



Veterans Upward Bound receives \$1,000 donation for scholarships from US Bank.

Members of NDSU's Veterans Upward Bound program received an unexpected \$1,000 donation from Delton Steele, regional president of US Bank, while on a radio program Aug. 11.

The surprise was revealed while Veterans Upward Bound director Bruce Steele, project coordinator Jeri Vaudrin and work study student Randolph Peterson were on radio station 106.9 – The Eagle, promoting Joes for GIs, an annual US Bank fundraiser for organizations that support military families throughout North Dakota.

Last year, US Bank donated \$500 to Veterans Upward Bound to be distributed for scholarships for veterans attending college. Peterson, a junior majoring in management information systems, is the first recipient of the scholarship award.

The \$1,000 donation will be distributed in April during the Trio Days banquet.

NDSU Bookstore unveils book-making machine

The NDSU Bookstore in the Memorial Union invites students, faculty and staff to view the new Espresso Book Machine. Individuals can publish their own book using this print-on-demand device, which uses the bookstore's fully integrated and patented book-making machine. It can automatically print, bind and trim perfect bound library-quality paperback books.

Update and republish course materials at any time, create and publish supplemental material, publish graduate studies work and print inexpensive public domain and out-of print titles with the option to add customized notes. No shipping costs or wait times. Contact Jennifer Autumnstar for further information or a demonstration at 1-5744 or jennifer.autumnstar@ndsu.edu.

The general book department in the NDSU Bookstore has expanded and moved to the main floor. If the store doesn't carry a desired book, contact Jennifer at 1-5744 to place a special order.

NDSU offers solutions through Ask An Expert

Finding reliable, research-based answers to questions is easier than ever, thanks to Ask an Expert, a service available through an NDSU University Extension Service and national eXtension collaboration.

To ask questions, go to the NDSU Extension Service website at www.ag.ndsu.edu/extension and click on the Ask an Expert link.

When you use Ask an Expert, the system first searches the eXtension website for possible answers. If an answer is not available, the question then goes to an agent or specialist who is an expert in the field related to the question. You can ask questions any time, day or night. You'll usually receive a response by email within two business days.

eXtension (www.extension.org) is a collaborative effort that brings together experts from 74 universities. It complements and enhances the community-based programming the NDSU Extension Service provides.

With North Dakota's flooding, the Ask an Expert system on the NDSU flood website – www.ag.ndsu.edu/flood – immediately relays questions to NDSU experts rather than utilizing the national network.

FORWARD announces appointment of Advocates

The FORWARD project and the Advocates group have selected nine faculty men to join the current group of Advocates. The newly appointed Advocates include Cristinel Ababei, assistant professor of electrical and computer engineering; Robert Gordon, associate professor of psychology; Sivaguru Jayaraman, assistant professor of chemistry and biochemistry; Scott Pryor, assistant professor of agricultural and biosystems engineering; Mukund Sibi, Distinguished Professor of chemistry and biochemistry; David Silkenat, assistant professor of history and education; Chanchai Tangpong, associate professor of management and marketing; Chad Ulven, associate professor of mechanical engineering; and Erxi Wu, assistant professor of pharmaceutical sciences.

The Advocates will offer training for faculty men who want to serve as Allies. Training is scheduled for Oct. 11 and Nov. 9 (for the College of Engineering and Architecture). Registration is requested and registration information can be found on the FORWARD website at www.ndsu.edu/forward/.

As part of their application to become a FORWARD Advocate, faculty men were asked to identify reasons why they wanted to serve in the role. The responses offered a range of perspectives and motivations for their interest and commitment to be involved in this way in the FORWARD project. The reasons included:

"I am committed to equality at NDSU (for example, I am currently an Advance FORWARD Ally and a Safe Zone ally, and have attended several FORWARD seminars in the past) and want to help create an environment in which female faculty, staff and students are supported and valued."

"The recent controversy over the availability of childcare on campus and the university's role in supporting female faculty have clarified for me some of the issues facing female faculty on campus."

"I understand the challenges they [female colleagues] encounter with both family and professional responsibilities, more so than typical male counterparts. I am genuinely committed in supporting them. In today's knowledge society and our knowledge-intensive profession, I personally believe in gender equality and fully support it."

"Two female students recently joined my group and I would like to provide them with the correct environment to succeed and to become future leaders. One of the best ways to accomplish this goal is to get myself involved with the FORWARD program, so that I can learn and equip myself with the necessary knowledge pertaining to the issues faced by female students and faculty. To work toward this goal, I am currently enrolled as a FORWARD Ally."

A complete list of FORWARD Advocates and FORWARD Allies is available at www.ndsu.edu/forward/people/advocates.

SU Impact grant applications sought

The NDSU Development Foundation again is seeking grant proposals for projects that have an immediate and positive impact on the educational experience of NDSU students.

The foundation is offering major grants of \$20,000 to \$75,000 through the SU Impact Fund Grant Program. Available to faculty, staff and recognized student groups, the program is funded by unrestricted contributions received from alumni, parents and friends, as well as proceeds from the annual Bison Bidders Bowl.

"We again hope to see applications from all across campus. We are looking for innovative projects that will make a significant impact," said John Wold, chair of the foundation's Grants and Awards Committee. "We were very pleased to fund the establishment of the Thought Leader Workshop with an SU Impact Fund Grant last fall and look forward to new opportunities this year, particularly those that would have an impact on the campus classroom environment."

According to program criteria, successful proposals will receive funding one time. However, the actual expenditure of grant funds may take up to three years. Programs or a proposed project should not be a portion of a larger program, unless the grant is requesting matching funds. Successful grant requests should clearly recognize the Development Foundation SU Impact Fund as the source of funding.

Applications are due to the Development Foundation Sept. 2. The completed form may be emailed to joann@ndsualumni.com.

The Grants and Awards Committee will select a group of finalists for additional consideration. These finalists will be invited to make 10-minute presentations to the committee during its Homecoming meeting on Sept. 29. Notification of awards is scheduled for Oct. 4.

For more information about the program and an application form, visit www.ndsufoundation.com and access the campus resources section of the website.

Lab and chemical safety courses offered

Lab and Chemical Safety courses are scheduled for Tuesday, Sept. 6, from 12:30 p.m. to 4:30 p.m. in the Memorial Union Room of Nations and Wednesday, Sept. 7, from 9 a.m. to 1 p.m. in the Memorial Union Rose room. Ted Jirik, environmental health technician with the University Police and Safety Office, will be the instructor.

The course is required for new laboratory workers and serves as a refresher course for people working in laboratories. Class size is limited to 18 people per session and pre-registration is required. The class will be canceled if no pre-registrations are received. It is essential that registered students attend the full session. Individuals registered for the class will not pass unless the entire class is completed.

Topics will include knowledge about chemicals, personal protection, fire safety, electrical safety, hazard communication standards, physical and chemical hazards, chemical spills and waste handling. There is no fee for the course. To register, email stephanie.wegner@ndsu.edu or call 1-7759.

McAfee computer anti-virus and anti-spyware being replaced

To ensure robust and cost-effective data security, the North Dakota University System is replacing the McAfee Anti-Virus and Anti-Spyware it has traditionally provided for students, faculty and staff. New software will be available at no charge for NDSU-owned computers and for use on NDSU student and employee personal computers.

Chief information technology security officer Theresa Semmens emphasized the importance of installing the new anti-malware software on both work and personal computers used on the NDSU campus.

"Protecting your individual computer is key in protecting the university community's IT resources from malicious viruses and other malware," Semmens said. "The North Dakota University System provides anti-malware software at no charge to ensure access and protection for faculty, staff and students."

For Windows users, a new anti-malware solution from Microsoft will provide protection against viruses, spyware and other malicious software. For NDSU-owned computers, the software is called Forefront. For personal use, a related Microsoft product called Microsoft Security Essentials is available at no charge. Macintosh users will be provided with ClamXav.

More information on how to access the new anti-malware programs is available at www.ndsu.edu/its/av.

Migration to these new anti-malware programs must be completed by March 2012, when campus licensing for McAfee expires.

The following policies require that appropriate software be installed on computers to prevent viruses and other malware:

N.D. University System policy 1901.2 – www.ndsu.edu/its/ndus-1901-2

NDSU policy 158 – available on the NDSU policy index page, www.ndsu.edu/policy

Sexual Assault Prevention Programs offers resources

Sexual Assault Prevention Programs in the Office of Student Life offers several resources for faculty and staff.

Classroom presentations: Peer educators from the Violence Prevention Educator Program are trained and ready to give both 20- and 45-minute presentations in the classroom. Presentations focus on the prevalence and reality of sexual assault on college campuses, identification of prevention strategies and bystander interventions.

24-Hour Helpline: The Sexual Assault Resources and Advocacy (SARA) Helpline is open and available at (701) 730-6149. SARA volunteers are trained faculty and staff from NDSU. Volunteers are available at any time to listen, answer questions and provide information on resources.

Responding to Disclosure of Sexual Assault: A Training for Faculty, Staff and Students fall 2011 training dates are:

- Thursday, Sept. 8, noon-1 p.m., Memorial Union Meadow Lark
- Wednesday, Oct. 12, noon-1 p.m., Memorial Union Rose room
- Tuesday, Nov. 8, noon-1 p.m., Memorial Union Prairie room
- Friday, Dec. 2, noon-1 p.m., Memorial Union Prairie room

Registration is required for training.

Self Defense for Women: Rape Aggression Defense classes are available to women in the NDSU community for a minimal cost. The basic RAD class is a total of 12 hours long. The next open class will take place Oct. 17-22 from 8 p.m. to 10 p.m., Monday through Thursday and 2 p.m. to 5 p.m. on Saturday. This class predominately focuses on physical defense strategies.

To register for a Rape Aggression Defense class, sign up for training or request a classroom presentation, contact Sarah Dodd at sarah.dodd@ndsu.edu or 1-5733.

Northern Crops Institute short course focuses on dry peas

Twelve food processors and importers from Indonesia, Malaysia, Mexico, Philippines, Thailand and Vietnam were at Northern Crops Institute during August to learn more about the use and marketing of dry pea-based ingredients in food products. The course is co-sponsored by USA Dry Pea and Lentil Council.

Course topics included dry pea breeding, quality evaluation, nutrition and milling applications; contracting specialty crops; functionality of dry pea flour, protein, starch and fiber; Asian and vermicelli noodle processing; baking and pasta processing with pea flour; use of dry peas in food products; and sensory evaluation of pea-fortified products.

Speakers for the course included Clifford Hall, NDSU Department of Cereal and Food Sciences; Thunyaporn Jeradechachai, Northern Crops Institute crop quality specialist; Kevin McPhee, NDSU pulse breeder; Frayne Olson, NDSU Extension Service; Dilrukshi Thavarajah, NDSU School of Food Systems; and Mehmet Tulbek, Northern Crops Institute technical director.

Counseling Center offers mindfulness workshops

NDSU Counseling Center has scheduled mindfulness workshops for NDSU students, faculty and staff. The free eight-week workshop will meet weekly on Thursdays from 2:30 p.m. to 4 p.m. from Sept. 22 through Nov. 10 in the Counseling Center, 212 Ceres Hall (Group Testing Room). Advance sign-up is necessary before 5 p.m. Tuesday, Sept. 13.

The workshop is geared toward individuals who are either new or relatively new to mindfulness. It can either stand alone, or serve as a precursor for those who would like more familiarity with mindfulness before attending the Counseling Center's ongoing weekly Meditation for Stress Management Group.

Each week will address a different facet of mindfulness through the use of discussion, readings, handouts and a variety of experiential mindfulness meditation practices. Attendance at the first session is mandatory to attend the remainder of the sessions, since the first session introduces mindfulness, and is the foundation on which all the following sessions will be based.

Further details on this and other groups and workshops can be found at www.ndsu.edu/counseling/groups_classes. More information specifically about mindfulness and meditation is at www.ndsu.edu/counseling/meditation_and_mindfulness. For additional information about the Counseling Center, visit www.ndsu.edu/counseling.

To sign up, call the Counseling Center at 1-7671 during business hours. Sign-up is limited to 12 participants.

ND EPSCOR announces award recipients

ND Experimental Program to Stimulate Competitive Research (ND EPSCoR) has announced research awardees for its Doctoral Dissertation Assistantship program. Thirteen students competed for the assistantship awards. Five students were award recipients of stipend support ranging from six to 24 months, totaling \$145,200.

ND EPSCoR's Doctoral Dissertation Assistantship program is designed to increase the completion rate of doctoral students enrolled in 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.

Student recipients, their departments and advisers are:

- Kevin Betts, psychology; Verlin Hinsz, professor
- Siqian Liu, electrical and computer engineering; Bei Gou, associate professor
- Reddy Sathish Padi, pharmaceutical sciences; Bin Guo, associate professor
- Erin (Pavlacky) Saville, coatings and polymeric materials; Dean Webster, professor
- Anil Wagh, pharmaceutical sciences; Benedict Law, assistant professor

Pharmaceutical sciences student awarded fellowship

Erin Nyren-Erickson, a doctoral student in pharmaceutical sciences, has received a pre-doctoral fellowship from the American Foundation for Pharmaceutical Education. The fellowship is awarded to outstanding pre-doctoral students of pharmaceutical and medicinal chemistry sciences in support of their research program. The fellowship is a nationally competitive award; approximately 60 awards are presented across the U.S. each year.

Nyren-Erickson has been studying with Sanku Mallik, professor of pharmaceutical sciences, since 2009. Mallik's research is concerned with the sensitive detection of various cancer-related enzymes, as well as other disease-related biomarkers. Her most recent projects involve the detection of elevated levels of glycosaminoglycans in human serum, a possible indicator of Alzheimer's disease. Additional ongoing studies in Mallik's lab include amplified detection of matrix metalloproteinases and other enzymes associated with metastatic cancer.

Theta Chi wins award for excellence

The Phi Chapter of Theta Chi Fraternity at NDSU has won the Howard R. Alter Jr. Award for Chapter Excellence from Theta Chi's international headquarters for the third year in a row. The national honor is presented annually to active chapters that demonstrate excellence in areas such as scholarship programming, community service and philanthropic programming, alumni programming, ritual operations, campus involvement and public relations.

The Alter Award is the highest honor the fraternity bestows upon a chapter. Phi Chapter has received the award 11 times total since the award was created in 1985. Phi Chapter has more Alter Awards than any other chapter in Theta Chi Fraternity.

"Our members strive for academic excellence and also plan and participate in a number of events aimed at bettering the community and the men of our fraternity," said Kyle Sebesta, a junior majoring in civil engineering and the Phi Chapter vice president. "The Alter Award is a great honor for Phi Chapter. It reinforces our efforts to become better men and serves as motivation to continue extending the helping hand to our community."

Theta Chi is one of the oldest and largest men's social fraternities in North America with philanthropy being one of its greatest missions. Its members at NDSU have volunteered locally at the YWCA, Days of Giving, highway cleanup and the flood fight. This year, members are taking on a new challenge, hosting a Special Olympics to give more than 70 children an opportunity to compete. They also hope to raise money for the state organization. "We feel like this is an area in the community that deserves more service, and we are proud to be able to help," Sebesta said.

For more information about the Phi Chapter of Theta Chi Fraternity, visit www.phionline.org or contact chapter president Joseph Heruth at joseph.heruth@ndsu.edu.

Gamma Sigma Delta selling corn for scholarship fund

NDSU's Gamma Sigma Delta members are selling freshly picked corn to support their scholarship fund. Each year, Gamma Sigma Delta awards scholarships to undergraduate and graduate students pursuing education in agriculture.

The price of the corn is a free-will donation to the Gamma Sigma Delta Scholarship Fund.

The freshly picked corn will be available Sept. 2, 6, 9, 13 and 16.

Sellers have been identified for several buildings on campus. To purchase corn, contact one of the following people:

Harris Hall: mary.niehaus@ndsu.edu

Stevens Hall and Van Es: jane.schuh@ndsu.edu

ABEN and Ag Service Center and Pilot Plant: darrin.haagenson@ndsu.edu

PEOPLE

Coordinator for the Memorial Union Recreation Center dies



Mike Montgomery, 43, coordinator of the Recreation Center and leisure programs, died Aug. 11.

Montgomery earned his bachelor's degree in human development and education from NDSU in 1998. He joined NDSU as an employee on July 21, 2008. As part of his role, he also taught bowling and billiards classes in collaboration with the health, nutrition and exercise sciences department.

"The students who worked in the Recreation Center truly saw him as a father figure," said Steve Winfrey, director of the Memorial Union. "He often used the phrase, 'Do or do not. There is no try,' taken from Yoda in 'Star Wars.'

Montgomery's son, Andrew, will attend NDSU this fall and his daughter, Anna, plans to attend NDSU in 2013.

Longtime NDSU athletics announcer dies



Lyle Hokanson, 65, longtime NDSU athletics announcer, died Aug. 10 in his home in Fargo.

Hokanson retired from NDSU on June 30 as assistant equipment manager in the Bison Sports Arena. He also was known as the "Voice of the Bison," as he was the public address announcer for NDSU games and track and field meets.

Memorials may be made to NDSU with reference to "Lyle Hokanson Endowment" in the memo section.

Johnson set to retire as NDSU general counsel



Johnson

Rick Johnson, NDSU general counsel, has announced his intention to retire May 15, 2012. On Nov. 16, he will begin phased retirement, working half time on contract and other transactional matters, and consulting to the NDSU General Counsel's Office.

Johnson, who joined NDSU in 1989, has worked for the state of North Dakota and higher education since 1979. He previously was solicitor general in the Office of the Attorney General and General Counsel to the N.D. State Board of Higher Education. He also had been in private practice in Bismarck and Fargo. Johnson has taught business law at NDSU, and teaches a course on higher education law in the Higher Education Doctoral Program in NDSU's College of Human Development and Education.

NDSU President Dean L. Bresciani commended the breadth and tenure of Johnson's various roles in state service. "Rick's expertise and contributions to North Dakota and NDSU are broadly respected throughout the state," Bresciani said. "We are extremely fortunate that he is willing to continue those contributions while we go through what will be a very important transition. As a gesture of appreciation for his service, I'm pleased to offer Mr. Johnson retirement with the status of General Counsel Emeritus."

Johnson earned his undergraduate degree from NDSU, his Juris Doctor from the University of North Dakota and Master of Laws in intellectual property law from the University of Houston.

Johnson is a Vietnam veteran and retired from the N.D. National Guard in 1999 as a lieutenant colonel. A search for Johnson's successor will begin immediately, chaired by Prakash Mathew, vice president for student affairs.

Assistant professor receives outstanding educator award



Borr

Mari Borr, assistant professor in the School of Education, was named the 2011 Outstanding North Dakota Career and Technical Educator by the North Dakota Career and Technical Education instructors and directors. Borr was recognized during the group's 41st annual professional development conference Aug. 8-10 in Bismarck, N.D.

According to a news release from the organization, Borr supports family and consumer sciences education in North Dakota through participation in the development of curriculum standards, licensing standards, program evaluation and resource material, in addition to being responsible for more than 30 NDSU students who are "teachers in training." Borr was president of the association, and her research includes delivery and analysis of mathematics in Career and Technical Education.

Entomology professor featured on FORWARD website



Harris

Marion Harris, professor of entomology and interim associate dean for academic programs for the College of Agriculture, Food Systems, and Natural Resources, is the new featured faculty member on the FORWARD website.

Previously highlighted faculty include Karen Froelich, professor of management and director of the master of business administration program; Rhonda Magel, professor and chair of statistics; Kalpana Katti, University Distinguished Professor of civil engineering; Wenfang Sun, professor of chemistry and biochemistry; and Charlene Wolf-Hall, professor of veterinary and microbiological sciences and assistant dean of the graduate school.

Visit FORWARD's website at www.ndsu.edu/forward to view newly featured faculty and information on all previously highlighted faculty.

Accounting associate professor to serve on committee



Andersen

Margaret (Peggy) Andersen, associate professor of accounting, has been appointed to serve as a member of the IMA, The Association for Accountants and Financial Professionals in Business, Foundation for Applied Research for a two-year term through June 30, 2013. Andersen will participate in the committee's charge of funding timely research on accounting and financial management subjects that can be applied to current and emerging business issues.

"As the leading authority for the management accounting profession, IMA has a responsibility for keeping pace with the latest business trends and meeting the career development and certification needs of accountants and financial professionals," said IMA 2011-12 chair Brian L. McGuire. "Dr. Andersen will support the development of IMA's programs, strategic planning, and thought leadership. I congratulate her for accepting this important volunteer leadership position and offering her time and expertise."

IMA's Foundation for Applied Research is charged with ensuring sufficient resources, both human and financial, to sustain IMA's role as a valued center of research on the most important practice issues of the day while also identifying financial management trends to meet the challenges of the next millennium.

Andersen has been an academic member of the IMA since 2001.

IMA provides a forum for research, practice development, continuing education, knowledge sharing and advocacy of the highest ethical and best business practices. The organization provides best-in-class certification, the Certified Management Accountant (CMA), for critical internal financial management responsibilities, including planning, budgeting, business reporting,

decision analysis and risk management. With a network of more than 60,000 members in 120 countries, IMA provides localized services through its offices in Montvale, N.J.; Zurich, Switzerland; Dubai, UAE; and Beijing, China. Visit www.imanet.org for more information.

Department head participates in homeland security workshop



Klenow

Daniel J. Klenow, head of the Department of Emergency Management, participated in a homeland security faculty development workshop at the Naval Postgraduate School's Center for Homeland Defense and Security in Monterey, Calif., Aug. 15-19.

The course included 30 faculty from across the United States who are involved in teaching courses in homeland security. The workshop focused on a variety of topics including complex systems analysis, foreign intelligence and counterterrorism, interoperable first response, biological terrorism and the relationship between emergency management and homeland security.

RESEARCH

Center for Protease Research hosts research poster session

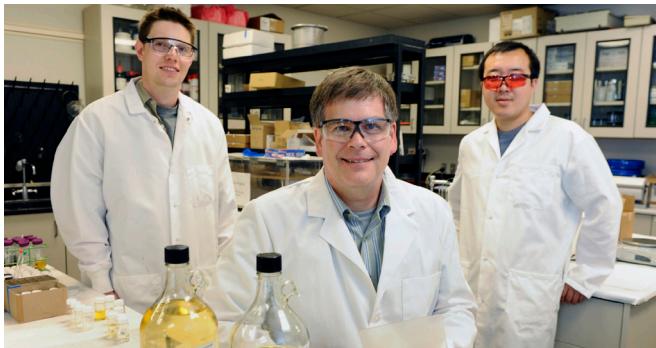
The Center for Protease Research held its annual "Undergraduate Research Poster Session" Aug. 4 in the Memorial Union. Thirty students presented posters on their scientific research performed at NDSU.

The presenters included 13 students visiting campus on a 10-week fellowship sponsored by the center. The students came from around the country to participate in the center's summer research program funded by the National Institutes of Health. The competitive program brought outstanding students to NDSU to experience scientific research in state-of-the-art laboratory settings. Outreach to students is one of the center's objectives, and program director Mukund Sibi works with faculty from four university departments to develop a strong science program.

Four presenters were local high school students who have been working in the chemistry and biochemistry department during the summer as part of the Parents' Involvement in Children, Nurturing Intellectual Curiosity in Science (PICNICS) program, which is managed by Sivaguru Jayaraman.

At the poster session, Kevin McCaul, dean of the science and mathematics, presented certificates to visiting summer students. He also presented plaques to Sibi to commemorate his receiving the College Mentoring Award and to Jayaraman, for receiving the College Teaching Award.

Researchers develop biobased technology from crop materials



Dean Webster, NDSU, (center) and graduate students T. J. Nelson and Xiao Pan are part of a research group that developed a family of biobased resins from crops such as sugarbeets, sunflowers, flax and soybeans. The new patent-pending process creates resins that eliminate hazardous components such as formaldehyde and bisphenol-A.

Several crops produced in North Dakota could play a significant role in biobased resins and coatings recently developed by researchers at NDSU. Scientists at NDSU have developed biobased resins that may prove to be a "game changer" in coatings and resin technology.

The NDSU researchers have developed a family of resins from renewable raw materials, creating resins that eliminate hazardous components such as formaldehyde and bisphenol-A. The resins are based on sucrose and vegetable oils, and can be varied to perform in many applications and industries, according to Dean Webster, professor in the Department of Coatings and Polymeric Materials. Webster's research group includes NDSU graduate students Xiao Pan and T. J. Nelson, undergraduate student Adlina Paramarta and Partha Sengupta, former postdoctoral researcher at NDSU.

The resins developed by the NDSU research group can be made from sugarbeets, plus oils from soybeans, flax and sunflowers. When cured, the patent-pending resins show:

- Significantly improved properties over current biobased materials and processes
- Mechanical properties comparable to petrochemical-based materials
- Dramatically increased renewable material content

"These NDSU-developed technologies achieve what few biobased materials have before," said Webster. "They have vastly improved mechanical properties, reduced hazardous chemical content and are made from readily available materials and common processes. The technologies have the potential for significantly impacting biobased material markets." The bio-renewable chemicals market is projected to reach \$5 billion by 2015.

The new resins developed at NDSU could further reduce reliance on petrochemical-based materials, one of the main components in many coatings formulations. Webster's research group found that the epoxidized sucrose ester resins they developed result in materials that are two-to-four times as functional as vegetable oil-based resins.

One novel ultraviolet light curable coating developed by Webster's group cures approximately 10 times faster than existing UV-curable biobased coatings. Another in the family of biobased resins developed at NDSU exhibits properties that make it ideally suited for bio-composite materials, baking enamels and structural adhesives. Another resin demonstrates more hardness and resistance to solvents than petrochemical-based coatings.

Laboratory research at NDSU has shown that the green technology resins developed at NDSU are far superior to existing biobased materials and comparable to petrochemical-based materials. The newly developed resins could be used in a variety of settings including construction, architectural, biomedical, marine and electronics industries. The technology may have wide-ranging applications in areas where thermally cured materials are used, such as in protective coatings, structural adhesives and composites. The resins are synthesized using raw materials, reagents and processes common to industry.

Funding for the biobased coatings research was provided by the USDA Cooperative State Research, Education and Extension Service. The United Soybean Board is sponsoring current biobased coatings research at NDSU. The base sucrose ester resins used in this research were provided by P&G Chemicals.

Webster's research is among a broad-based research portfolio in renewable technologies at NDSU, with research funded by USDA, the National Science Foundation, U.S. Department of Energy and entities in North Dakota, including the North Dakota Renewable Energy Council and North Dakota Soybean Council.

EVENTS

Part-time Jobs Fair scheduled

The NDSU Career Center has scheduled a Part-time Jobs Fair for students Thursday, Sept. 1, from 11 a.m. to 2 p.m. in the Memorial Union Great Plains Ballroom. The event is a free way for NDSU departments to publicize openings. A total of 750 students attended the event last year.

FORWARD kick-off event scheduled

The FORWARD project will begin its fourth year of programming with a kick-off event on Thursday, Sept. 1, at 2 p.m. at President Dean L. Bresciani's house. The kick-off event will include the presentation of this year's Advance FORWARD Award (formerly the Gender Equity Award) to the Department of Veterinary and Microbiological Sciences. The Advance FORWARD Award is given annually by the Commission on the Status of Women Faculty to an academic department with a record of outstanding effort to support and advance gender equity in one or more of the five areas/goals established in the National Science Foundation Advance Grant.

Registration for the kick-off event is requested and may be completed at www.ndsu.edu/forward.

Ceremony to honor tribal college partnership program coordinator



Pieri

A smudging ceremony (a Native American ceremony for spiritual blessing) and a tree planting celebration have been scheduled to honor Robert Pieri for serving as the NDSU tribal college partnerships program coordinator for the past three years. The ceremonies are scheduled for Friday, Sept. 2, at 4 p.m. in the Grandmother Earth's Gifts of Life Garden and are being organized by the Division of Equity, Diversity and Global Outreach. Everyone is welcome to attend.

Following the celebration, the Office of Multicultural Programs will host a barbecue event at the NDSU Equity and Diversity Center. All participants at the ceremonies are welcome to attend.

The Grandmother Earth's Gifts of Life Garden is located on the NDSU campus on the southwest corner of Administration Avenue and Centennial Boulevard – west of the Memorial Union.

Next Walk ND Challenge starts Sept. 11

The next session of NDSU Extension Service's Walk N.D. Challenge will begin Sept. 11. Participants have an eight-week period to walk 200 miles. The challenge will end Nov. 5.

To reach the 200-mile goal, participants need to walk about 10,000 steps a day at least five days a week. That's the equivalent of walking five miles a day.

This is how the program works: Put on a pedometer in the morning and record the number of steps taken by the end of the day. Then report the number of steps every two weeks. Participants without a pedometer, should record one mile or 2,000 steps for every 20 minutes you walk.

Report progress online at www.walknd.com or on a mail-in postcard. Email reminders to report progress will be sent to those participating online.

You can join Walk North Dakota as an individual or part of a group. Groups that haven't participated in the program should send an email to info@walknd.com. You don't need to live in North Dakota to participate.

The registration fee is \$10 for anyone age 19 or older and \$5 for youth 18 and younger. North Dakota 4-H'ers can participate free of charge.

Go to the Walk North Dakota website at www.walknd.com to register. For more information, contact Linda Hauge at 1-7964 or info@walknd.com.

Since May 2004, when the program started, 4,150 participants have walked 1.6 billion steps, or about 802,734 miles.

Study Abroad Fair scheduled Sept. 12

The Office of International Programs has scheduled a Study Abroad Fair for Monday, Sept. 12, from 10 a.m. to 2 p.m. in the Memorial Union Plains room.

The fair will feature more than 15 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. Students also can vote for their favorite photos from students who studied abroad during the 2010-11 academic year.

"This is a great opportunity for students to connect with program representatives to help determine which program is a good fit," said Tanya Kramer, study abroad adviser 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.

Women in Research to host networking event

The Women in Research group will host a speed networking lunch meeting for all interested NDSU women faculty Monday, Sept. 12. The lunch, consisting of networking appropriate food, sponsored by the NDSU Advance FORWARD project, will start at 11:30 a.m. in the Memorial Union Great Room.

Advance FORWARD seeks to develop and expand both internal and community networks as one means to enhance campus climate and advance faculty.

Ann Burnett, professor and director of women and gender studies, and Kara Gravley-Stack, director of diversity initiatives, will be facilitators for the event. Burnett and Gravley-Stack will organize brief one-on-one discussions focused on research, teaching and service interests. Individuals who plan to attend are asked to register before Sept. 8 at www.ndsu.edu/forward.

The Sept. 12 event also will mark the first meeting of the academic year of the Women in Research group. The goals of the group are to encourage collaboration and networking in research and curricular development, promote interdisciplinary discussion across scientific and technical fields, and increase opportunities for promoting women faculty and students. Future Women in Research meetings are scheduled for Nov. 10, Jan. 6, Feb. 6, March 6 and April 4. Details about locations and times will be announced prior to these meeting dates. Presenters and suggestions for activities are welcome.

Questions about the Women in Research group may be directed to Xinhua Jia, agricultural and biosystems engineering, at xin-hua.jia@ndsu.edu; Birgit Pruess, veterinary and microbiological sciences, at brigit.pruess@ndsu.edu; or Annie Tangpong, mechanical engineering, at annie.tangpong@ndsu.edu.

NDSU Women's Club schedules fall event



Linnaires

NDSU Women's Club has scheduled Chris Linnaires to speak at its first fall event, Monday, Sept. 12, at 7:30 p.m. at the Waterford Auditorium, 1200 Harwood Drive in Fargo. Linnaires will discuss her journey from Brazil to Fargo and how she developed her women's wellness and empowerment program, Diva Dance.

Linnaires' personal health journey also led to creation of the book, "Beautiful Women of North Dakota," which profiles women who've made significant contributions to their communities. Linnaires is an international author, Brazilian psychotherapist and weight loss master coach. Together with her husband, Forum publisher and filmmaker Billy Black Marcil, she has created "Beautiful Women Of," a social project that encourages youth to use art and literature as a way of expanding the definition of beauty and bringing human values to light. In 2011, more than 12,000 youth will have an opportunity to be touched by this mission.

The fall event will begin with a meet-and-greet for members, prospective members and guests at 6:30 p.m. with a brief business meeting at 6:50 p.m. The Linnaires event at 7:30 p.m. is open to the public, with seating beginning at 7:20 p.m. A book signing will follow.

Extension Service to demo tile drainage at Big Iron

The NDSU Extension Service will conduct tile drain field demonstrations at the Big Iron Farm Show in West Fargo Sept. 13-15.

The demonstrations will include an educational program of tile drainage in this region. Each afternoon program will include educational presentations followed by an installation demonstration. There will be a tent at the edge of the field for related displays. Installation demonstrations will be conducted from 2:30 p.m. to 4:30 p.m. in the field directly south of the Red River Valley Fairgrounds' racetrack.

More information relating to NDSU research and Extension programs on tile drainage are available at:

- Tile drainage and water quality – www.ag.ndsu.edu/waterquality/tile-drainage-1
- Impact of tile drainage on soil properties – www.ndsu.edu/aben/research/research_areas/
- Soybean variety response to tile drainage – www.ag.ndsu.edu/broadleaf/corn

The Farm and Ranch Guide is co-sponsoring the tile drain demonstration and will archive video recordings of the educational presentations and field demonstrations at www.farmandranchguide.com. For more information on the Big Iron Farm Show, visit www.bigironfarmshow.com.

Counseling Center to offer Mental Health NDSU event

The NDSU Counseling Center invites all students, faculty and staff to participate in the inaugural Mental Health NDSU event Sept. 13-16.

A variety of activities are planned to help students, faculty and staff recognize and ease stress, succeed academically, deal with homesickness and internet/video game addiction/obsession, intervene with individuals dealing with mental health issues and maintain positive attitudes.

Activities include workshops, meditation sessions and a De-stress Fest. NDSU CARES (suicide prevention training) and Mental Health First Aid Training also will be offered.

Speakers for the workshops include:

- Teresa DeMers, NDSU counselor: Adjusting to College/Homesickness Workshop
- Ronni Arensberg, NDSU psychologist: Meditation
- Ann Stark, NDSU counselor: Cyber Junkies Unplugged
- Jaryn Allen, NDSU counselor: Setting Yourself Up for Academic Success, NDSU CARES
- Bill Burns, director of NDSU Counseling Center: Mental Health First Aid Training

For more information and a complete schedule, visit the Center's website at www.ndsu.edu/counseling/mental_health_ndsu or call 1-7671.

Alumnus to present on building mobile phone applications Sept. 14

Ron Vetter, a leading technology expert, will present "Building Mobile Phone Applications," an Association for Computing Machinery Distinguished Lecture, Wednesday, Sept. 14, at 2 p.m. in IACC 104.

Vetter is a professor and past chair of the Department of Computer Science at the University of North Carolina Wilmington and co-founder of the technology company, Mobile Education LLC. His research interests include mobile computing and wireless networking, parallel and distributed systems, and Web-based distance education.

Vetter's talk will describe the development of interactive short message service applications, which range from simple data access applications to a novel discovery game designed for the freshman experience. Several of these applications are now being sold commercially via a novel technology transfer agreement with the University of North Carolina Wilmington. Several iPhone applications also have been developed. A discussion of the relative advantages, costs and lessons learned while developing mobile phone applications will be presented.

"Cellular telephones have become an integral part of the modern world in much the same way as the Internet has, providing human connectivity in a way never before possible," Vetter said. "While most cell phones are used for their original intent, making telephone calls wirelessly, mobile devices are also coming loaded with new features and capabilities."

Vetter earned his bachelor's and master's degrees in computer science from NDSU and his doctorate in computer science from the University of Minnesota. He has published more than 100 journal, conference and technical papers. He has served as the principal investigator or co-principal investigator on grants and contracts exceeding \$5 million.

Blood drive scheduled

The Office of Human Resources/Payroll will sponsor a United Blood Services Blood Drive on Thursday, Sept. 15, from 1 p.m. to 4:30 p.m. The bloodmobile will be parked on the west side of the Memorial Union. The blood drive is open to all faculty, staff and students. Donors must show a photo ID.

To schedule an appointment or for more information, visit www.bloodhero.com and enter the sponsor code: staff. Appointments also can be made by contacting Cynthia Baumann at 1-8961 or cynthia.baumann@ndsu.edu.

Tour and events showcase ND Germans from Russia history

Experience the rich history and culture of North Dakota's Germans from Russia at events scheduled as part of NDSU's 2011 Dakota Memories Heritage Tour, Sept. 15-18. The three-day tour through south central North Dakota will feature a variety of activities from a choir recital of traditional German songs to tastings of homemade German-Russian cuisine, in addition to a variety of presentations prepared for tour participants and the general public. The tour will make stops in Jamestown, Streeter, Napoleon, Lehr, Wishek, Zeeland, Hague, Strasburg and Ashley.

Prior to departure, Thursday, Sept. 15, the Dakota Memories Heritage Tour will kick off with a welcome reception from 4 p.m. to 6:30 p.m. at the NDSU Main Library (1201 Albrecht Blvd. on NDSU's main campus). Attendees will hear opening remarks by Clifford Canku of NDSU's North Dakota Studies Program, and presentations on the NDSU Libraries' Germans from Russia Heritage Collection and on the Institute for Regional Studies and University Archives. Refreshments will be served.

On Friday, Sept. 16, at 10:45 a.m., Donald Schwert, NDSU professor of geology, will present "A Heritage of Landscapes: The Geologic Setting of Settlement" at the National Buffalo Museum in Jamestown, N.D. (<http://buffalomuseum.com>). At 6:45 p.m. that evening, Homer Rudolf will present "The German-Russian Brauche (Faith Healing) Tradition: History and Practice" at Rueben's Restaurant in Napoleon.

On Saturday, Sept. 17, the public also is welcome to attend the "History – Heritage – Culture" event at Wishek's historic Civic Center (www.wishek-nd.com/cityinfo/civic-center.html). A German-Russian meal, including strudels, will be served at 6:30 p.m. Wishek High School students will provide musical entertainment, and Ronald Vossler will present "All in One Sack: Humor and Tragedy of the Germans from Russia." The presentation is sponsored by the North Dakota Humanities Council. A silent auction will be

held, with proceeds going to Tri-County Tourism Alliance. The entertainment and presentation are included in the cost of the tour, but dinner – available for \$15 – must be purchased separately by Sept. 1 from Acacia Stuckle at acacia.stuckle@ndsu.edu or 1-6596.

For more information about the Dakota Memories Heritage Tour or related events, visit <http://library.ndsu.edu/grhc/dakota-memories/heritage/index.html> or contact Stuckle. In addition to NDSU Libraries, tour sponsors include NDSU Extension Services' Center for Community Vitality and Prairie Public Broadcasting.

Animal sciences department to host 'Moos, Ewes and More'

The Department of Animal Sciences will host the second annual "Moos, Ewes and More," a family event to learn more about livestock, on Sept. 17, from 10 a.m. to 2 p.m. at the NDSU Equine Center, 5140 19th Ave. N., Fargo. The event is free and open to all ages.

Participants will learn how milk gets to the table, how many sweaters can be made from the wool of one sheep and how a horse can sleep while standing. They will have an opportunity to see the animals and meet the farm managers, faculty and staff in the animal sciences department. Animal demonstrations, such as milking a cow, emergency dog care and sheep shearing are planned in addition to tasting BBQ Boot Camp samples and dairy product treats.

"North Dakota is proud of its agricultural background, and NDSU is excited about the opportunity to help families bridge the gap between urban and farm life," said Stacey Ostby, veterinary technologist in the animal sciences department.

For more information, contact Erika Berg at erika.berg@ndsu.edu or Stacey Ostby at stacey.ostby@ndsu.edu or visit the Moos, Ewes and More website at www.ag.ndsu.edu/ansc/news-events/moos-ewes-and-more.

Fraternity organizes volleyball fundraiser for suicide prevention

Sigma Alpha Epsilon fraternity is sponsoring the fourth annual S.O.S. Spike-Out-Suicide Volleyball Tournament on Saturday, Sept. 25, at 11 a.m. on the sand volleyball court by the high-rise residence halls on campus. Students, faculty and staff are invited to participate.

The daylong event also will feature music and prizes. The winning team will be awarded a trophy at the end of the day.

To get more information about participating, stop by the Student Activities Office, Memorial Union 120, or visit saendsu.com to fill out a team profile. The registration fee is \$6 per person, which covers food and drink costs. All proceeds will benefit the American Foundation for Suicide Prevention. Registration ends Wednesday, Sept. 21.

Harvest Bowl scheduled Oct. 28-29

The 38th annual Harvest Bowl program at NDSU is scheduled for Oct. 28 and 29.

Highlights of the event include a Harvest Bowl dinner and awards program on Oct. 28 at the Fargo Ramada Plaza Suites and the Harvest Bowl football game between NDSU and Northern Iowa on Oct. 29. Also on Oct. 29, as part of Harvest Bowl, honorees will participate in educational sessions on the NDSU campus.

As a land-grant university, NDSU plays a major role in contributing knowledge through research, academic programs and Extension Service. More than 2,000 agriculturists have been recognized and more than \$80,000 in scholarships have been awarded to NDSU student-athletes with agricultural backgrounds or majoring in a field of agriculture.

The NDSU Harvest Bowl program recognizes the success, dedication and hard work of outstanding agriculturists in 53 counties in North Dakota and several counties in Minnesota.

An agribusiness award recipient is chosen annually. This award recognizes individuals who have distinguished themselves in the field of agriculture and business in North Dakota and beyond. Allan R. Johnson, former U.S. Department of Agriculture Deputy Undersecretary for Rural Development, will receive the 2011 award.

Before joining the USDA, Johnson was active in agricultural publishing for more than 30 years. During his tenure as president of Farm Progress Companies, the business grew from seven to 39 publications. Today, he and his wife publish a leading agricultural policy newsletter and website covering Washington, D.C.

Several scholarships also are awarded to outstanding male and female athletes.

For tickets and information on Harvest Bowl activities, visit the NDSU Alumni Association website at www.ndsualumni.com, call the NDSU alumni office toll-free at (800) 279-8971 or locally at 1-6800 or email marilyn@ndsu.edu.

PUBLICATIONS/PRESENTATIONS

Emergency management faculty publish chapters

NDSU emergency management faculty members Carol Cwiak, Jessica Jensen, Daniel J. Klenow and George A. Youngs contributed chapters to the edited book, "Challenges of Emergency Management in Higher Education: Planning and Strategies." The book recently was published by the Public Entity Risk Institute in Fairfax, Va.

Cwiak's chapter is titled "Next Steps in Emergency Management's Professionalization Process: Who Will Be the Gatekeeper of the Profession of Emergency Management?" Jensen's chapter is titled "The Argument for a Disciplinary Approach to Emergency Management Higher Education." The chapter by Klenow and Youngs is titled "Developing and Maintaining Emergency Management Graduate Programs."

Criminal justice associate professor and student publish



Archbold

Carol Archbold, associate professor of criminal justice, will have a book published with Aspen Publishing in August. The book, "Women and Policing in America: Classic and Contemporary Readings," is a text/reader hybrid. Kimberly Hassell from the University of Wisconsin-Milwaukee and Dorothy Moses Schulz from John Jay College in New York City co-wrote the book.

Ericka Wentz, a criminal justice doctoral student, and Archbold will have their paper, "Police perceptions of sexual assault victims: Exploring the intra-female gender hostility thesis," published in Police Quarterly in March 2012.

Finance assistant professor publishes manuscript



Tian

Ruilin Tian, assistant professor of finance, co-wrote the manuscript, "Mortality Portfolio Risk Management," which has been accepted for publication in the Journal of Risk and Insurance.

Pharmaceutical science student presents at national conference

Kruttika Bhat, a doctoral student in the Department of Pharmaceutical Sciences and cellular and molecular biology program, submitted an abstract titled "DHA Sensitizes Etoposide to Induce Apoptosis in Brain Tumor Cells" to the American Association of Colleges of Pharmacy. It was selected as a poster that was presented at the association's annual meeting in San Antonio, July 10-13.

The abstract received high scores from three reviewers of the American Association of Colleges of Pharmacy. Two gave full scores to the abstract and one gave an excellent score. All of the reviewers commented that the abstract is an important and interesting study, according to Erxi Wu, Bhat's doctoral thesis mentor in the pharmaceutical sciences department. "Recently, Kruttika Bhat and Fengfei Wang, research associate in the lab, have demonstrated that docosahexaenoic acid modulates the cytotoxic effect of etoposide (VP16) in medulloblastoma cells. We also have illustrated that the combination of DHA with VP16 in medulloblastoma cells altered multiple signaling pathways. Among them, DNA repair and growth factors/PI3K/MAPK pathways are likely the major contributors to the cytotoxic effects," Wu said. The work recently has been published in Current Molecular Medicine.

Assistant professor publishes paper pancreatic cancer therapy



Wu

Erxi Wu, assistant professor of pharmaceutical sciences, co-wrote the article, "Perspectives on the role of photodynamic therapy in the treatment of pancreatic cancer," which has been accepted by International Journal of Photoenergy. The paper will appear in the focus issue, "Photodynamic Therapy."

According to the authors, photodynamic therapy is a non-invasive procedure involving a photosensitizing agent that is activated by light to produce reactive oxygen species that selectively destroy tumor cells. In recent years, it has been used in the treatment of pancreatic cancer. The anti-tumor effects of photodynamic therapy include three main mechanisms: direct tumor cell death (necrosis, apoptosis and autophagy), vascular destruction and immune system activation. The paper was co-written with Qingyong Ma and Wei Li in the Ma lab at Xi'an Jiaotong University, China.

"This article systematically summarizes the effects of photodynamic therapy in the treatment of pancreatic cancer from the experimental studies to the clinical studies and discusses the mechanisms of PDT-induced pancreatic cancer destruction," Wu said. "Together with the Ma lab, we commit to finding cancer therapeutics and elucidating the mechanisms of the targeted therapy for pancreatic cancer, the fourth leading cause of cancer death."

International Journal of Photoenergy is a peer-reviewed, open-access journal that publishes original research articles, as well as review articles in all areas of photoenergy. The journal consolidates research activities in photochemistry and solar energy utilization into a single forum for discussing and sharing knowledge. For more information on the journal, visit www.hindawi.com/journals/ijp.

Stockwell contemporary evolution study published



Stockwell

Studies of threatened species typically focus on factors associated with extinction risk, but a recent study published in PLoS ONE reports a case of a contemporary evolution for a recently introduced population of a protected fish. Craig Stockwell, James A. Meier associate professor in biological sciences, co-wrote the PLoS ONE paper, "Contemporary Evolutionary Divergence for a Protected Species Following Assisted Colonization." Stockwell collaborated with lead author and his former doctoral student, Michael Collyer, now at Western Kentucky University, and his former postdoctoral fellow, Jeffrey Heilveil, now with SUNY College at Oneonta.

Since 1995, Stockwell's research group has conducted work on the evolutionary ecology of the White Sands pupfish, a species found in southern New Mexico. Evolutionary biologists have been interested in the pupfish's of the western deserts because this family provides a classic example of rapid speciation, which happened as populations were rapidly isolated in very different habitats as the Pleistocene Lakes dried.

"Darwin, instead of visiting the Galapagos Islands, could have visited the western United States and deduced the same patterns of speciation following isolation by studying the various pupfish species," Stockwell said. "Today, most pupfish species are threatened with extinction. As a consequence, pupfish are routinely transplanted to new habitats to reduce their risk of extinction."

These newly established "refuge populations" are considered "genetic replicates" of the native population that could be used for re-stocking in the case of catastrophic loss of the native population. Because pupfish populations have been isolated during both pre-historic and contemporary time scales, they provide an ideal opportunity to evaluate the mode and tempo of evolutionary divergence.

In the PLoS ONE paper, the authors synthesize data from two studies to demonstrate a case of adaptive evolutionary divergence of a pupfish population established around 1970. Two native populations of the White Sands pupfish were isolated in Salt Creek (a saline creek) and Malpais Spring (a relatively fresh water spring) about 3,000 to 5,000 years ago. In the 1970s, two new populations were established with one population introduced to another saline creek, Lost River, and the other to another spring, Mound Spring. Stockwell previously used molecular markers to show that both of these introduced populations descended from the native Salt Creek population. Subsequently, Collyer's dissertation research focused on applying geometric morphometrics to study body shape variation within and among native and recently established pupfish populations. The fish from the spring populations were found to be deep bodied, whereas the fish from the salty creeks were slender. These body shapes make evolutionary sense because salt increases the density of water, giving a selective advantage to fish with slender bodies compared to fish with deep bodies.

The paper provides geometric morphometric analyses to evaluate fish raised in a common garden study to demonstrate that body shape is heritable and thus the divergence reflects adaptive evolutionary divergence over two different time scales. The PLoS ONE paper also reports the results of a microsatellite DNA survey that showed limited neutral divergence indicating that the body shape divergence was not likely due to genetic drift. Collectively, the data show a case of contemporary adaptive divergence with the Mound Spring pupfish evolving a deep body shape during the 30-year period.

The findings suggest the Mound Spring population is a poor "replicate" for the native Salt Creek population. In addition, the observed morphological divergence of pupfishes instead of taking millennia could theoretically have happened soon after the populations were isolated, maybe within a few decades.

"Studies concerning threatened species often focus on factors promoting extinction risk, but our study shows that a common management practice such as assisted colonization can have observable evolutionary impacts within a few decades," Stockwell said. "This is important because such evolution may result in refuge populations that are actually mal-adapted to their native habitat."

These findings suggest conservation biologists and managers should consider the prospect that populations transferred to new environments may rapidly evolve and thus foil original management plans.

The research was funded by Department of Defense Legacy grants, a ND EPSCoR EPA grant to Stockwell, as well as an EPA STAR fellowship to Collyer.

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.

Director, International Programs

Office of International Programs
Commensurate w/education and experience
Open until filled

Coordinator, Human Development and Education Online Programs

Human Development and Education
Salary contingent upon qualifications
Sept. 1

Software Engineer

CNSE
Commensurate w/experience
Open until filled

ND EPSCoR Tribal Colleges Liaison Manager/#00024933

ND EPSCoR
Commensurate w/experience
Open until filled

Technology Manager – CCAST HPC Systems

Computationally Assisted Science and Technology
Commensurate w/experience
Open until filled

Physician

Student Health Services
Commensurate w/experience
Open until filled

Nutritional Research Specialist/#00020244

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

Nutrition Laboratory Technician

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

Agricultural and Biological Sciences Librarian/#00021069

Library
\$44,000/year
Aug. 31

Research Analyst (50 percent time)

Institutional Research and Analysis
\$19,000+/year
Aug. 31

Physical Sciences and Engineering Librarian/#00018838

Library
\$45,000
Sept. 16

Agricultural Research Specialist

Central Grasslands Research Extension Center
Commensurate w/experience
Sept. 6

Nutrition Education Assistant, FNP (Sioux County)

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

Nutrition Education Assistant, FNP (Fort Berthold)

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

Agricultural Research Technician/#00020059

NCREC
Commensurate w/experience
Open until filled

Custodian (two positions)/#00018865, #00020762

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

Administrative Secretary/#00021225

Counseling Center
\$27,000+/year
Sept. 12

AUGUST

31-Sept 2 Poster Sale – 9 a.m. to 6 p.m., Memorial Union

31 Campus Attraction event – airbrush artist demonstration – 11 a.m. to 3 p.m., Memorial Union east patio.

31 Team Makers Bison Open – Edgewood golf course with a 1 p.m. shotgun start. Contact Helena Johnston at 1-6172 or helena.johnston@ndsu.edu.

SEPTEMBER

1 Part-time Jobs Fair – 11 a.m. to 2 p.m., Memorial Union Great Plains Ballroom. Sponsored by NDSU Career Center.

1 FORWARD kick-off event – 2 p.m., President Dean L. Bresciani's house.

1 NDSU Extension Service event, "Tires, Traction and Compaction Field Day" – near Fergus Falls, Minn.

1 Bison Block Party – Free concert, hot dogs and pop (while supplies last) in the parking lot of Scheels at 5 p.m.

2 Agribusiness and applied economics speaker – “Comprehensive Enterprise Risk Management,” David Spickler, commodity risk manager with Blue Flint Ethanol Plant, Underwood, N.D., 10 a.m., Richard H. Barry Hall room 600.

2 Smudging ceremony and tree planting celebration – 4 p.m., Grandmother Earth’s Gifts of Life Garden (west of Memorial Union).

3 Bison Football vs. Lafayette – 6 p.m., Fargodome.

5 Labor Day Holiday – University closed.

CALENDAR

CALENDAR

9 **Brown Bag Seminar, Reading of the Constitution** – 11 a.m. to noon, Memorial Union Thundar's Den.

9 **Brown Bag Seminar, "International Perspectives on Citizenship" panel** – Noon to 1 p.m., Memorial Union Prairie Rose room.

9-11 **NDSU Family Weekend**

12 **Study Abroad Fair** – 10 a.m. to 2 p.m., Memorial Union Plains room. Sponsored by the Office of International Programs.

12 **Team Makers Golf Event** – Fargo Country Club with a shotgun start at 12:30 p.m. Contact Helena Johnston at 1-6172 or helena.johnston@ndsu.edu.

12 **Safe Zone Training (Level 1): Becoming an Ally** – 2 p.m., Memorial Union Meadow Lark.

14 **Brown Bag Seminar, "Together, We Can Prevent Sexual Violence!" panel** – Noon to 1 p.m., Memorial Union Arikara room.

15 **Take Back the Night rally and march** – NDSU campus. Details to come.

15 **Collect! Create! NDSU Faculty and Staff Show** – Reception and artists' talks, noon to 2 p.m., Memorial Union Gallery. Show runs through Oct. 4.

18 **Streets Alive** – Noon to 5 p.m. Visit www.fmstreetsalive.org for more information.

20 **North Dakota movie premiere "Green Fire: Aldo Leopold and a Land Ethic for Our Time"** – 7 p.m., Festival Concert Hall. Free.

20 **First Promotion to Professor Lunch** – 11:30 a.m., Memorial Union Arikara room.

21 **Brown Bag Seminar, "Hispanic Heritage," panel** – Noon to 1 p.m., Memorial Union Arikara room.

23-24 **Bison vs. Gophers events** – The March to Minneapolis. Friday: Bison Party, 8 p.m. at the Depot. Saturday: Tailgate Party, noon at the Minnesota Fair Grounds; Kickoff, 6 p.m. at TCF Bank Stadium. More info at www.ndsualumni.com.

28 **Brown Bag Seminar, "Coaching for Success: How to Make the Most Out of Your Professional Life"** – Noon to 1 p.m., Memorial Union Arikara room.

29-Oct. 1 **NDSU Homecoming** – Visit www.ndsuhomecoming.com.

OCTOBER

5 **Brown Bag Seminar, "Turning Fitness into a Party-Dance-Fit-Like Zumba ... But Better!"** – Noon to 1 p.m., Memorial Union Arikara room.

12 **Brown Bag Seminar, "Coming Out on Campus," student panel** – Noon to 1 p.m., Memorial Union Prairie room.

19 **Brown Bag Seminar, "Redistricting in North Dakota: Changing of the ND Legislative Districts"** – Noon to 1 p.m., Memorial Union Arikara room.

26 **Brown Bag Seminar, "Using Effective Strategies to Reduce Conflict at Work"** – Noon to 1 p.m., Memorial Union Room of Nations.

NOVEMBER

2 **Brown Bag Seminar, opening ceremony for Native American Heritage Month** – Noon to 1 p.m., Memorial Union Arikara room.

9 **Brown Bag Seminar, "My Military Life" panel** – Noon to 1 p.m., Memorial Union Arikara room.

16 **Brown Bag Seminar, "Indigenous Expressions," panel about Native American dances** – Noon to 1 p.m., Memorial Union Arikara room.

30 **Brown Bag Seminar, "The Real HR Professionals of Fargo-Moorhead," panel** – Noon to 1 p.m., Memorial Union Arikara room.

DECEMBER

7 **Brown Bag Seminar, "Healing and Recovery After Sexual Violence," panel** – Noon to 1 p.m., Memorial Union Arikara room.

MORE CAMPUS EVENTS www.ndsu.edu/eventcalendar

NEXT ISSUE Publication date: Thursday, Sept. 15 | Submissions due: Sept. 12 at noon

SEND SUBMISSIONS TO THE EDITOR Linsey Davis | ndsu.itshappening@ndsu.edu

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