

# NDSU

VOLUME 3 ISSUE 13

IT'S HAPPENING AT STATE

JULY 15 2011

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## Tri-College University unveils new vaccinology minor

Tri-College University, in collaboration with the Greater Fargo-Moorhead Economic Development Corporation and Sanford Health, is launching a first-in-the-nation undergraduate academic minor in vaccinology, starting this fall.

The addition of an academic minor in vaccinology was driven in part by a study recently completed by the Greater Fargo-Moorhead Economic Development Corporation. The study showed that a focus on vaccinology could translate into long-term sustainable economic growth for the region.

Tri-College officials believe the minor will attract interest because there are more than 2,500 students currently enrolled in life sciences and health care fields at the Tri-College partnering schools: NDSU, Concordia College and Minnesota State University Moorhead.

"It's a first-in-the-nation, and gives undergraduate students great opportunities to conduct research, interact with industry experts and secure relevant experience through industry internships. It's a win-win for everyone involved," said Tri-College University provost Tim Flakoll. The program is being managed by faculty-based "vaccinology coordinators" from each of the three partnering campuses. Local faculty will teach the courses required for the vaccinology minor and will augment the curriculum with participation from outside industry experts. Class size is expected to be 24 students. The minor will require 21-24 credit hours.

To advance the program, Sanford Health has created a Vaccinology Professorship Endowment of \$150,000 to fund the faculty investment. "It's important that public and private partners participate together in solutions for community economic development and education; however, the reach of this program extends far beyond



*From left to right: Mary Batcheller, Tim Flakoll and Dennis Millirons announce the vaccinology minor at a media conference July 13.*

the Fargo region when you consider the significant public health need for vaccinology expertise across our nation," said Sanford Medical Center president Dennis Millirons. "We are inspired to be a part of a program that brings together innovative medical research, growth for our community and unprecedented opportunities for students."

Greater Fargo-Moorhead Economic Development Corporation president Kevin McKinnon said, "It is our goal to make Fargo-Moorhead a global destination for vaccinology research by simply plugging in our own quality graduates into an emerging regional industry."

For more information, visit [www.tri-college.org](http://www.tri-college.org) or contact Flakoll at 1-9733 or Sonia Mayo Hohnadel, communications coordinator, at 1-9731 or [sonia.hohnadel@ndsu.edu](mailto:sonia.hohnadel@ndsu.edu).

## Office of Admission to host new summer visit event

The Office of Admission has scheduled a Summer Open House on Friday, Aug. 5, as a new summer visit event for prospective NDSU students. The event will provide a comprehensive overview of NDSU to high school students. The morning and afternoon session

will include a light meal, admission presentation, student panel and a general campus tour.

Contact Michael Nicholas at [michael.nicholas@ndsu.edu](mailto:michael.nicholas@ndsu.edu) or Douglas Zeltinger at [douglas.zeltinger@ndsu.edu](mailto:douglas.zeltinger@ndsu.edu) for more information.

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

### News and events

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

### Deadline set for July 29 It's Happening at State

The next electronic issue of It's Happening at State will be posted July 29 at [www.ndsu.edu/ihas](http://www.ndsu.edu/ihas). Submissions for that issue are due at noon on July 26.

### State Board of Higher Education newsletter offered online

The State Board of Higher Education newsletter, SBHE Update Reader, will now be published solely online. Visit <http://ndus.edu/board/newsletter/> for the latest issue.

### Faculty and staff parking permits available for purchase

Employee parking permits for 2011-12 are available for renewal or sale at the Campus Parking Office in Thorson Maintenance Center Monday through Friday from 8 a.m. to 3:30 p.m.

## Extension's new phone app helps flood recovery

A new smartphone application from the NDSU Extension Service will help North Dakotans and others record and recover from flood damage. The Disaster Recovery Journal is available free through the Android market.

The Disaster Recovery Journal allows people to use a tool they probably evacuated with: their smartphone.

The app lets users record information about damages as they enter their flooded homes using text, images and audio. The app uses the smartphone's camera feature to capture photos to illustrate the flood damage. Users then can enter descriptions of damaged items or use their smartphone's voice recorder to record an audio description of the damage. These details and photos are essential for possible insurance and/or government reimbursement.

The Disaster Recovery Journal also provides NDSU Extension Service information on how to clean or deal with flood-damaged appliances and electronics; carpets and floors; clothing and fabrics; food; furniture; gardens and landscapes; home structures; household items; mold; papers, books and photos; and water.

"DRJ was designed to help people record the damage to their physical property and collect it in one place," says Bob Bertsch, NDSU agriculture communication web technology specialist. "We did our best to leverage the capabilities of today's smartphones to help people record their losses. We hope the app will help in their recovery."

The app was developed by Myriad Devices, a company based in the NDSU Research and Technology Park incubator and founded by NDSU electrical and computer engineering faculty and students. The NDSU Extension Service provided design and content input, and funded the project, in cooperation with University of Minnesota Extension, through U.S. Department of Agriculture National Institute of Food and Agriculture Smith-Lever Special Needs grants.

Visit [www.ag.ndsu.edu/extension/apps/disaster-recovery-journal](http://www.ag.ndsu.edu/extension/apps/disaster-recovery-journal) for more information.

## College names interim associate dean



Harris

Marion Harris has accepted the position of interim associate dean for academic programs in the College of Agriculture, Food Systems, and Natural Resources.

Harris is a professor of entomology and, for the past three years, served as the entomology program leader in NDSU's School of Natural Resource Sciences.

"Dr. Harris' exceptional qualifications will allow the college to continue its very positive momentum to enhance academic standards and offerings," says Ken Grafton, dean of the College

of Agriculture, Food Systems, and Natural Resources and director of the North Dakota Agricultural Experiment Station.

Harris earned a bachelor's degree from Cornell University, Ithaca, N.Y., in 1977, a master's degree in entomology from Michigan State University in 1982 and a doctorate in entomology from Michigan State in 1986.

Harris joined NDSU as an associate professor in 2000 and became a full professor in 2007.

"Over the past few years, I have become more and more interested in making sure that NDSU graduates have the requisite skills to be intelligent citizens and competitive job seekers," she says.

"This new position gives me the opportunity to join with CAFSNR faculty to create new and exciting ways to deliver critical content to students while also achieving higher-level outcomes, such as critical and creative thinking."

Harris replaces Jim Venette, who recently retired after 35 years of service to NDSU.

A national search for a permanent associate dean will begin soon, Grafton says.

## NDSU Extension director announces retirement



Hauck

Duane Hauck, Extension Service director for the past seven years, announced he is retiring at the end of the year.

"After 35 1/2 years in Extension, I feel it's time to look at what the next stage of life provides," the 58-year-old Hauck says. "The Extension Service has great support and a good budget. We have a solid administrative team and excellent agents, specialists and staff. Things are in great shape, which should make for a smooth transition to a new director."

Hauck joined the NDSU Extension Service after graduating from NDSU with a bachelor's degree in mechanized agriculture in 1976. He started as an assistant agent in Stutsman County. He held roles as an associate agent in Ward County, an Extension associate in what was then NDSU's agricultural engineering department, a Cass County Extension agent, district director and assistant Extension director before being named Extension Service director in 2004.

"Duane's career with the NDSU Extension Service has been outstanding," says D.C. Coston, NDSU vice president for agriculture and university Extension. "In recent years as director, he has done a tremendous job of leading the organization in many innovations in programming and delivery."

"He is respected by his colleagues," Coston adds. "He is known and trusted by leaders and citizens. North Dakota has been richly blessed through his abiding commitment to the state and from his high standard of personal integrity."

## Kish named head wrestling coach

Roger Kish was introduced June 30 as NDSU's fourth head wrestling coach in the 54-year history of the program. Director of Athletics Gene Taylor made the announcement.

Kish replaces Hall of Fame head coach Bucky Maughan, who retired this summer after 47 years at the university.

A standout wrestler at the University of Minnesota, Kish completed his second year as an assistant wrestling coach at NDSU. He was a graduate assistant for the Gophers in 2008-09.

The Lapeer, Mich., native was a two-time All-American and two-time NCAA runner-up for the Gophers at 184 pounds. Kish graduated from Minnesota in 2008 with a bachelor's degree in business and marketing education.

## Northern Crops Institute boards elect officers

Members of the Northern Crops Council elected Robert Majkrzak as chair at their reorganizational meeting June 28. He is president and chief executive officer of Red River Commodities, Fargo. The Northern Crops Council is the governing board of the Northern Crops Institute in Fargo.

Majkrzak represents processors and marketers of food and feed products. He joined the council in 2007.

Karolyn Zurn, a producer from Callaway, Minn., was elected vice chair. Zurn represents the Minnesota Soybean Growers Association. Her first term on the council began in 2009.

The council is composed of six seats that are permanently occupied by the NDSU president, North Dakota Commissioner of Agriculture and representatives of the North Dakota Wheat Commission, North Dakota Oilseed Council, North Dakota Barley Council and North Dakota Soybean Council. An additional 11 seats are filled by producers and food processors from Minnesota, Montana, North Dakota and South Dakota, who gain seats on the council through election by the permanent members.

Mike Beltz, a producer from Hillsboro, N.D., will fill the permanent seat held by the North Dakota Soybean Council. Chet Edinger, a producer from Mitchell, S.D., will represent the South Dakota Wheat Commission. Milo Mattelin, a producer from Culbertson, Mont., was re-elected to the council by the Montana Wheat and Barley Committee. Jay Romsa, General Mills, LeSueur, Minn., also will represent processors and marketers of food and feed products. Kevin Skunes, a producer from Arthur, N.D., was re-elected to the council by the North Dakota Corn Utilization Council. Arnold Woodbury, a producer from Wyndmere, N.D., will fill the permanent seat held by the North Dakota Oilseed Council.

At the Industry Advisory Board meeting on June 27, John McLean, Cargill, West Fargo, was re-elected to his fifth term as chair.

The Industry Advisory Board advises Northern Crops Institute staff on educational programming and technical services. The board draws its members from the agricultural supply and processing industry and the grain trade in Minnesota, Montana, North Dakota, South Dakota and the region.

## Students earn reserve champion honors in academic quiz bowl

NDSU students earned reserve champion honors in the American Meat Science Association's academic quiz bowl competition held at the association's 64th Reciprocal Meat Conference June 19-22 at Kansas State University, Manhattan.

"We are extremely proud of the efforts of our quiz bowl team. They demonstrated exceptional knowledge of the meats industry in this competition," said Greg Lardy, head of NDSU's animal sciences department. "Their success speaks to the caliber of the students at NDSU as well as the depth and quality of the training they receive in our undergraduate program."

Team members included Kelsey Phelps, a senior majoring in animal science from Breckenridge, Minn.; Quynn Larson, a recent animal science graduate from Brandon, S.D.; and Eric Kleman, a senior majoring in animal science from Ottawa, Ohio.

The team competed against 31 teams from 26 universities. They advanced through seven rounds of play to face Texas A&M in the championship round.

During the quiz bowl, students answer 40 questions per round. For the first 20 questions team members compete head-to-head with each other. The last 20 questions are open, which means any team member may buzz in and answer. Questions cover a wide range of topics, including meat industry history, role of meat in the diet, conversion of muscle to meat, food safety, meat microbiology and meat marketing and pricing.

For more information on the quiz bowl, visit [www.meatscience.org/page.aspx?id=7401](http://www.meatscience.org/page.aspx?id=7401). For more information on NDSU's team, contact Miller at [richelle.miller@ndsu.edu](mailto:richelle.miller@ndsu.edu).

## Carlson named Scholar-Athlete of the Year

NDSU women's cross country and track and field athlete Whitney Carlson and Indiana University Purdue University Indianapolis men's soccer player Perez Agaba were selected as the 2010-11 Summit League Scholar-Athletes of the Year in a vote by the league's faculty athletic representatives. The award is the most prestigious individual honor given by the league.

Carlson graduated in May, completing her biology degree while minoring in zoology and business administration. The Buchanan, N.D., native was a two-time Capital One Academic All-American First Team selection, after being named first team All-District each of the last three years. During her time at NDSU, she received six scholarships, including the prestigious NCAA Postgraduate Scholarship.

A five-time All-American, Carlson earned four of those honors this season. She placed fifth in the heptathlon and ninth in the long jump at the NCAA Outdoor Championships, along with a 12th-place long jump finish and 16th-place pentathlon finish at the NCAA Indoor Championships.



## NDSU faculty and staff parking permits are on sale

NDSU faculty and staff parking permits for 2011-12 are available for renewal or sale at the Campus Parking Office in Thorson Maintenance Center. Permits can be purchased or renewed Monday through Friday from 8 a.m. to 3:30 p.m.

The annual parking permit fee for the 2011-12 academic year is \$155. The fee is deducted from full and part-time, benefitted employees' paychecks starting with the Sept. 15 paycheck. Employees may choose between one deduction of \$155 or 10 payroll deductions of equal increments. Non-benefitted and temporary employees can pay by cash or check. Faculty and staff permits are non-refundable. Each employee is eligible for one parking permit. Permits become valid upon renewal or purchase and expire Aug. 15, 2012. The fee to replace a lost permit is \$30.

2011-12 "Park and Ride" Fargodome parking permits are available for \$60. Information about transit from the Fargodome lot is available at [www.ndsu.edu/parking](http://www.ndsu.edu/parking). Faculty and staff who want to forego their assigned lot are welcome to use this economical alternative. Fargodome permits are not valid anywhere except Fargodome lots C, D or E. Fargodome permits are not valid in conjunction with any other permit.

For additional information, email the Campus Parking Office at [NDSU.parking@ndsu.edu](mailto:NDSU.parking@ndsu.edu) or call 1-5771. Complete NDSU parking regulations are available at [www.ndsu.edu/parking](http://www.ndsu.edu/parking).

### RESEARCH

## NDSU faculty awarded grant for research in Antarctica

More NDSU students will be able to conduct research in Antarctica thanks to grants from the National Science Foundation. NDSU geology professors Adam R. Lewis and Ken Lepper received \$292,568 in grant funding and Jane Willenbring, assistant professor at the University of Pennsylvania in Philadelphia, received an additional \$287,416 to conduct field research in Antarctica in late 2011 and to support as many as seven graduate and undergraduate students as research continues through 2014.

The research team that will journey to Antarctica in November includes Lewis, NDSU senior Ashley Steffen of Bismarck, N.D., and graduate student Felix Zamora, Brighton, Colo. The field expedition team includes Willenbring, who is a 1999 NDSU graduate from Bismarck-Mandan. A McNair scholar, Willenbring completed her undergraduate degree in geological sciences at NDSU, advised by Allan Ashworth, University Distinguished Professor and veteran Antarctic researcher.

The NDSU research team will spend approximately eight weeks tent-camping in Antarctica from early November to early January in the McMurdo Dry Valleys. The goal of the group's research is to provide a new paleoclimate record that helps resolve the frequency and rate of melting along margins of the East Antarctic Ice Sheet during times of past warmth. This will help address some fundamental questions in Antarctic science and also will provide specific benefits to allied research in the Ross Sea region of Antarctica.

The research group will work with K-12 schools in North Dakota and Pennsylvania, conducting interviews and webcasts from Antarctica. They also will share their research with K-12 classrooms when they return. Participating schools may include Casselton Elementary, Ben Franklin Middle School and Kindred High School in North Dakota, and Theodore Roosevelt and Elizabeth D. Gillespie Middle Schools in Philadelphia.

The group's research, titled "Collaborative Research: Activation of high-elevation alluvial fans in the Transantarctic Mountains – a proxy for Plio-Pleistocene warmth along East Antarctic ice margins," focuses on using fans of sand and gravel deposited along mountain slopes as a record for melt-water production, which in turn is a proxy for inland warmth. These relatively young fans, channels and debris-flow levees stand out as highly visible evidence for the presence of melt water in an otherwise frozen landscape. Limited data from terrestrial ice margins and significant unknowns regarding regional climate mean that Antarctica's contribution to sea level rise during past warm phases is unknown.

"It's too cold today for ice or snow to melt, so there are no modern streams running down hillsides," said Lewis. "We are trying to build a geologic record of when melting occurred in Antarctica. Early results suggest it happens about every 50,000 years, which correlates well with the Earth's orbital cycles."

The study is expected to produce a record of inland melting from sites adjacent to ice sheet margins and at similar elevations. Results can be compared to models of orbital forcing and marine and ice core records to help determine what controls regional climate along margins of the East Antarctic Ice Sheet.

The research team expects to return from Antarctica with approximately 500 pounds of rock and sediment to be analyzed. NDSU students will concentrate on geomorphology, sedimentology and stratigraphy of the deposits under the direction of Lewis and determine the age of the sediments under the direction of Lepper. Students at the University of Pennsylvania, under the direction of Willenbring, will take the lead in the cosmogenic dating of the sediments.

In addition, Douglas Kowalewski, University of Massachusetts at Amherst, will provide climate modeling support and Tibor Dunai, University of Edinburgh, will conduct sample analysis as part of the research team.

Lewis presented "Neogene ice-marginal climate from terrestrial records in the Transantarctic Mountains" and Ashworth presented "The Early Miocene paleoclimate of the McMurdo Dry Valleys region of Antarctica" at the 11th International Symposium on Antarctic Earth Sciences, Edinburgh, Scotland, July 10-15. Visit [www.isaes2011.org.uk/programme.html](http://www.isaes2011.org.uk/programme.html) for more information.

Lewis' ongoing research in Antarctica was featured in a NOVA television production titled "Secrets Beneath the Ice" on PBS. Visit [www.pbs.org/wgbh/nova/earth/secrets-beneath-ice.html](http://www.pbs.org/wgbh/nova/earth/secrets-beneath-ice.html) to view.

NDSU students have participated in the Antarctic expeditions during the past three years. Previous fieldwork in Antarctica by Lewis and Ashworth has been featured in "Ice People," a documentary by Emmy-winning director Anne Aghion ([www.icepeople.com/about.html](http://www.icepeople.com/about.html)). The film was shown at festivals around the world and has been broadcast on European and American television.

## Students honored at national pharmaceuticals research meeting

Anil Wagh and Faidat Sanusi, doctoral students in the pharmaceutical sciences department, received awards for their poster presentations at the 43rd Pharmaceuticals Graduate Student Research Meeting at the University of Wisconsin-Madison June 23-25.

Wagh, a third-year doctoral student in assistant professor Shek Hang Law's laboratory, received the Best Poster Award in the Drug and Gene Delivery category for his work, "Synthesis and Characterization of FRET-based Nanoparticles for Near-infrared Imaging."

Sanusi, a second-year PharmD student in assistant professor Estelle Leclerc's laboratory, received the Best Poster Award in the joint categories of Pharmaceutical Analytical Methods and Pharmacokinetics, Pharmacodynamics and Biopharmaceutics for her work, "Development and Characterization of New Monoclonal Antibodies Against the Receptor for Advanced Glycation Endproducts."

Approximately 300 graduate students attended the meeting and 81 posters were presented. The posters were distributed in six sessions/categories. The poster awards were attributed according to the quality of the poster. Eight Best Poster Awards were presented.

Participating schools included the University of Wisconsin-Madison, University of Iowa, University of Kansas, University of Kentucky, University of Michigan, University of Minnesota, University of Missouri at Kansas City, University of Nebraska Medical Center, Ohio State University, Purdue University, Wayne State University, University of Illinois at Chicago, University of Toledo, University of Pittsburgh, University of Buffalo and NDSU.

The purpose of the meeting is to gather graduate students from the pharmaceuticals field to learn academia and industry perspectives, share ideas and face challenges of the global pharmaceuticals community. This year's meeting focused on the theme, "The essentials of an interdisciplinary approach to modern pharmaceutical research."

### PEOPLE

## Plant pathologist receives society's Distinguished Service Award



Nelson

Berlin Nelson, professor of plant pathology, received the Distinguished Service Award at the North Central Divisional Meeting of the American Phytopathological Society held in Omaha, Neb., June 15-17.

Nelson was honored for his contributions to the professional society and to the region's soybean growers and industry. He formerly served as president of the North Central Division's American Phytopathological Society, secretary and chair of several regional and national soybean disease committees and soil-borne disease committees. He is the senior editor of the journal, *Plant Disease*. He has contributed to regional and national soybean disease research, providing new information on diseases such as soybean white mold and soybean cyst nematode.

## American Society of Animal Science honors two NDSU faculty



Redmer

Dale Redmer and Kim Vonnahme, both animal sciences faculty, received awards at the American Society of Animal Science annual meeting in New Orleans on July 11.

Redmer received the Animal Physiology and Endocrinology Award and Vonnahme received the Early Career Achievement Award.

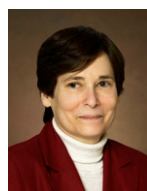


Vonnahme

The Animal Physiology and Endocrinology Award is intended to stimulate research excellence in physiology and endocrinology. It is awarded based on basic or applied research in physiology and endocrinology with all classes of large and small animals and research work published in the past 10 years.

The Early Career Achievement Award recognizes achievement of young scholars working toward the mission of the American Society of Animal Science, fostering the discovery, sharing and application of scientific knowledge concerning the responsible use of animals to enhance human life and well being. Candidates for the award must have completed their most recent degree within the past 10 years and their programs must serve the mission of the American Society of Animal Science.

## Dean of libraries elected to board of directors



Reid

Michele Reid, dean of libraries, has been elected to the board of directors for the National Science Foundation's Experimental Program to Stimulate Competitive Research Science Information Group, a consortium of more than 50 research university libraries in 22 U.S. states and territories.

The program's mission is to assist the National Science Foundation in providing strategic programs and opportunities for its participants to stimulate sustainable improvements in their research and development capacity and competitiveness, and advance their science and engineering capabilities for discovery, innovation and overall knowledge-based prosperity. The Science Information Group consortium also negotiates the collective purchase of important science and technology information services and resources, including online subscription packages from publishers such as Wiley-Blackwell and Springer.

## PUBLICATIONS/PRESENTATIONS

## Assistant professor invited to write book chapter



Wu

Erxi Wu, assistant professor of pharmaceutical sciences, co-wrote the book chapter, "Prevention and management of obesity by isoflavones" with Barbara Doonan and Joseph Wu. It has been accepted by Royal Society of Chemistry Publishing and will be included in the book, "Food and Nutritional Components in Focus: Chemistry, Analysis, Function and Effects."

According to the authors, obesity is a metabolic disease that is increasing in potentially epidemic proportions in the United States and throughout the world. Because obesity is clinically presented as manifestation of several degenerative disorders such as coronary heart disease, hypertension and type-2 diabetes, a uniformly safe and effective therapeutic regimen is as yet unavailable. The mainstay of pharmacological intervention for obesity includes suppression of appetite to curtail food intake or increased disposal of calories in the stool. Lifestyle factors including diet and nutrition may positively or adversely affect the risk of obesity.

Wu's chapter will review evidence regarding the dietary intake of soy and soy isoflavones as an adjunctive consideration for preventing and managing obesity.

"In this chapter, we evaluate results obtained from a combination of laboratory, animal and population-based studies relevant to molecular and cellular control of adipogenesis. We present and discuss the salient features of an approach aimed at identifying soy isoflavones with anti-obesity potentials. We also explore mechanistic links between dietary habits and the development of obesity, and consumption of isoflavones that might account for their anti-obesity effects," Wu said.

Royal Society of Chemistry Publishing is a scientific publisher, offering a range of peer-reviewed journals, magazines, books, databases and publishing services to the chemical science community. For more information, visit [www.rsc.org/publishing](http://www.rsc.org/publishing).

## EVENTS

## Staff Senate to present 'Annual Salary Process Discussion' Aug. 11

The NDSU Staff Senate Development Committee will present "Annual Salary Process Discussion" on Thursday, Aug. 11, from 9:30 a.m. to 10:30 a.m. in the Memorial Union Century Theater as part of Staff Senate's Discover U mini-sessions. Bruce Bollinger, vice president for finance and administration, will have an open discussion regarding the annual salary process at NDSU. A brief overview of the role the North Dakota University System has in the process will be provided. A question and answer session will follow.

Visit [www.ndsu.edu/staff\\_senate](http://www.ndsu.edu/staff_senate) for more information on NDSU's Staff Senate.

## Events planned to celebrate Governor's School session

This week marks the end of another successful session of North Dakota Governor's School, a six week-residential program for scholastically motivated high school sophomores and juniors.

To celebrate, several events have been planned.

Governor's School students will give science presentations Friday, July 15, at 8:30 a.m. in Sudro room 26. They will outline the research they conducted in their chosen area of either biology, biochemistry, chemistry, materials science, pharmacy or physics. A science poster session will follow at 2:30 p.m. in the Memorial Union Ballroom.

Students also will have a reception featuring fine arts presentations July 15, starting at 6:30 p.m. in the Memorial Union Ballroom. Students worked in various mediums, including printmaking, drawing, sculpting and visual graphics.

The Governor's School closing ceremony is scheduled for Saturday, July 16, at 10 a.m. in the Memorial Union Ballroom. During the ceremony, Governor's School coordinators and students will talk about their experiences and completion certificates will be presented.

"The closing ceremony is a venue for the students to showcase the amazing work they have done during their six weeks on campus and a chance for the program to celebrate our students' achievements," said Kelly Gorz, academic special events coordinator for the Center for Science and Math Education.

This summer's Governor's School began June 5 with 66 North Dakota high school students arriving on campus. Since then, students have learned directly from NDSU faculty in areas such as laboratory science, mathematics, information technology, English studies and visual arts (visual arts alternates with performing arts each year). They also have participated in 4-H life and leadership classes and enjoyed a field trip to Minneapolis, a canoe trip and service projects.

To learn more, visit [www.ndsu.edu/govschool](http://www.ndsu.edu/govschool) or contact Kelly Gorz at (701) 231-6727 or [ndsu.govschool@ndsu.edu](mailto:ndsu.govschool@ndsu.edu).

## Take Back the Night event planned for Sept. 15

The Take Back the Night rally and march is scheduled for the evening of Sept. 15 on NDSU's campus. The event is intended to address issues related to sexual violence in our community. It will include a keynote speaker, rally and march through campus. All NDSU faculty, students and staff are invited to participate.

Take Back the Night first appeared in Europe in 1976 and has continued throughout the world as a sign of empowerment for women, men and children.

More details will be provided prior to the event.

## Carrington Research Extension Center to host Field Day July 19

The NDSU Carrington Research Extension Center's annual field day is scheduled for Tuesday, July 19.

Two crop tours will be conducted during the event for participants to view research trials and receive current production information. Crop variety performance, production and pest management, tillage systems and plant nutrition will be highlighted.

The first tour will begin at 9:30 a.m. and will include a review of spring and durum wheat, barley and dry bean cultivars by NDSU plant breeders Mohamed Mergoum, Elias Elias, Richard Horsley and Juan Osorno. Corn and soybean production highlights will be presented by NDSU Extension Service agronomists Joel Ransom and Greg Endres. Also, an update on energy beets will be provided by Maynard Helgaas, area commercial vegetable producer, and Blaine Schatz, Carrington Research Extension Center director and research agronomist.

Following a noon lunch, tour participants are encouraged to attend a second crop tour starting at 1 p.m.

The tour will focus on four areas:

- Tile drainage – Tim Becker, Eddy County Extension agent; Hans Kandel, Extension agronomist; and Ron Wiederholt, Carrington Research Extension Center nutrient management specialist, will provide an introduction to the benefits and challenges of land management strategy.

- Managing prevented plant cropland – Dwight Aakre, Extension economist, and Kandel will review regulatory and agronomic options for unplanted cropland.
- Crop pest update – Sam Markell, Marcia McMullen and Michael Wunsch, NDSU plant pathologists, will provide an update on the threat and management of this season's small-grain and row-crop diseases. Janet Knodel, Extension entomologist, will highlight management strategies for late-season insects, including wheat and soybean aphids, and sunflower head-infesting insects. Kirk Howatt, NDSU weed scientist, and Endres will review this season's weed management challenges and highlight Carrington Research Extension Center weed management trials.
- Tillage systems and plant nutrition – John Nowatzki, Extension agricultural machine systems specialist, will review current research on the impact of crop residue on soil moisture and temperature. Also, Paul Hendrickson, Carrington Research Extension Center research agronomist, and Endres will highlight the Extension center's research on row-crop response to tillage systems and placement of starter fertilizer.

In addition to the crop tours, field day visitors also may attend livestock and fruit tours.

For more information, contact the Carrington Research Center at (701) 652-2951 or go to [www.ag.ndsu.edu/carringtonREC](http://www.ag.ndsu.edu/carringtonREC).

## SHORTS AND REMINDERS

### Positions Available

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

### Software Engineer

CNSE  
Commensurate w/experience  
Open until filled

### Laboratory Technician

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

### Technology Manager – CCAST HPC Systems

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

### Food Technologist Specialist

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

### Mid-Level Practitioner NP/PA (nine months)

Student Health Services  
July 18  
\$46,800+/year

### Physician

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

### Nutritional Research Specialist/ #00020244

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

### Nutrition Laboratory Technician

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

### HPC Systems Administrator

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

### Research Specialist/#000205051

Ag and Biosystems Engineering  
\$2,800 min/month  
Open until filled

### Diversity Program Coordinator/ #00022894

Multicultural Programs  
\$20,000+/year  
July 19

### Research Associate/#00023349

Psychology  
\$35,000+/year  
July 20

### Research Associate/#00028004

Psychology  
\$35,000/year  
July 20

### Computer Programmer/#00023316

Psychology  
\$40,000+/year  
July 20

*Continued...*



**Research Specialist**

Animal Science  
\$35,000+/year  
August 1

**Bison Connection Associate/#00025608**

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

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

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

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

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

**Records Specialist/#00027364**

Human Resources/Payroll  
\$29,000+/year  
July 20

**Mentoring Coordinator**

Distance and Continuing Education  
\$30,000+/year  
Open until filled

**Office Assistant/#00023138**

Library  
\$28,500+/year  
July 20

**Custodian (two positions)/#00018865, #00020762**

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

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

Dining Services  
\$12.50+/hour  
Open until filled

**PM Cook (11:30 a.m.-8 p.m.)/#00028290**

Dining Services  
\$12.50/hour  
Open until filled

**Swing Cook /#00028288**

Dining Services  
\$12.50/hour

**PM Lead Food Service Worker/#00028287**

Dining Services  
\$10.00+/hour  
Open until filled

**Custodian (seven positions; variable hours)**

Facilities Management  
\$19,760+/year

## CALENDAR

**JULY**

**15 Governor's School science presentations** – 8:30 a.m., Sudro room 26.

**15 Governor's School science poster session** – 2:30 p.m., Memorial Union Ballroom.

**15 Governor's School fine arts presentations** – 6:30 p.m., Memorial Union Ballroom.

**15 Chemistry and biochemistry seminar** – Takahiko Akiyama, "Recent Progress on the Chiral Phosphoric Acid Catalysis," 3 p.m., Ladd Hall room 107.

**15-22 Memorial Union Gallery Exhibit** – "The Unapologetic Landscape" by Chuck Kimmerle.

**15-27 Memorial Union Gallery Exhibit** – "Living A Sunflower" by Seonjoo Cho.

**16 Governor's School closing ceremony** – 10 a.m., Memorial Union Ballroom.

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

**19 Safe Zone Ally Training, Level 1: Becoming A Safe Zone Ally** – 10 a.m. to 11:30 a.m., Memorial Union Room of Nations.

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

**20 Safe Zone Ally Training, Level 2: Gender Identity/Expression** – 10 a.m. to 11:30 a.m., Memorial Union Room of Nations.

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

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

**21 Pharmacy student presentation** – Amber Altstadt and Jordan Wolf, sixth-year pharmacy students, will talk about their recent medical mission trip to Guatemala, 12:30 p.m., Sudro Hall, room 27.

**21 Team Makers Golf Event** – Grand Forks Country Club with a 12:30 p.m. shotgun start. Contact Helena Johnston at 1-6172 or [helena.johnston@ndsu.edu](mailto:helena.johnston@ndsu.edu).

**27 Outdoor movie: "Rango"** – 9:30 p.m., Memorial Union East Patio, rain site Memorial Union Ballroom. Free event sponsored by Memorial Union Summer Activities and Residence Life.

**28 Team Makers Golf Event** – Bois de Sioux golf course in Wahpeton with a 12:15 p.m. shotgun start. Contact Helena Johnston at [helena.johnston@ndsu.edu](mailto:helena.johnston@ndsu.edu) or 1-6172.

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

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