

## Plans for research computing center unveiled

NDSU has announced plans for a Center for High Performance Computing, which will be located in the NDSU Research and Technology Park. Supported with \$1.5 million in federal funding championed by U.S. Sen. Byron Dorgan, the project was unveiled at an April 25 news conference.

"This is an exciting, historic day for the faculty and students of North Dakota State University, and it's a day that will set the stage for leading and innovative scientific progress for our state, nation and this university," President Joseph A. Chapman said at the news conference. "The Center for High Performance Computing will give this university a powerful, new tool as we strive to meet the changing needs of North Dakota."

Dorgan said the new center gives NDSU the tools to compete for contracts with many federal agencies that need computing systems to quickly and efficiently analyze information.

"Today is the start of something big," Dorgan said. "I'm pleased to serve on the Appropriations Committee, where I have an opportunity to push, tug, pull and agitate to get funding for things that I think will make a big difference in our state. I think this is an engine of opportunity, growth and research. I think that engine will mean jobs in our future, and that's why I'm proud to do what I can to provide funding for these important projects."

Part of the center's development will include the enhancement of the existing Beowulf cluster developed by NDSU faculty and Information Technology Service staff five years ago. It includes hardware provided by Fargo's DakTech Computers.

"This will be very much a complimentary service to what ITS does for the broader campus community. The new center is meant to focus on the scientific and high performance computing needs of the research community at NDSU," said Bonnie Neas, assistant vice president and director of Internet Research. She added that ITS will play a prominent role in providing infrastructure services to the center, such as advanced networking and system administration.

According to Neas, the five-year plan for the center calls for a network of at least 256 desk top-type computers linked through parallel programming. With such a network, complex problems can be broken down to smaller elements, and results are much faster.

Neas said the initial \$1.5 million in funding will start the process, and she is hopeful that future funding may come from collaborations with government agencies, businesses and higher education entities. "This center is very much meant for our scientists at NDSU, but it also is a facility to create external partners with the federal government and the private sector," she said.

The center also is expected to aid in the area's economic development. Among the first people hired will be a finance and contracts manager, system administrator, database administrator and research support programmers.

"At NDSU, we are committed to economic development of this area, and the center is another opportunity to meet that important goal," Chapman said. "New jobs will be created, and the area will grow. Young people will come to NDSU for an education, and stay here to work with leading technology for the betterment of all of us."

*cont.*

## Summer hours to begin May 19

Summer hours for NDSU staff will begin Monday, May 19, and run through Friday, Aug. 22. Hours will be 7:30 a.m.-4 p.m. with 30 minutes for lunch. Regular hours will resume Monday, Aug. 25.

## Guard, Reserve students' registration questions answered

The Office of Registration and Records has received requests for activated National Guard students to be registered for fall semester classes via power of attorney, which is typically parents or spouses. Information detailing the registration through the power of attorney option as well as other facts for National Guard and Reserve students may be found at [www.ndsu.edu/vpsa/](http://www.ndsu.edu/vpsa/). Questions should be directed to Neil Sitz, Office of Registration and Records, at 1-7985.

## Commencement reminder

Spring commencement is scheduled for 4 p.m. Friday, May 16, at the Fargodome. As of April 23, a total of 806 students had indicated that they intend to walk at commencement ceremonies, according to Kristi Wold-McCormick, registrar. For more information, contact the Office of Registration and Records at 1-7981.

## Varsity Mart garage sale planned

The Varsity Mart has scheduled its annual garage sale for 9 a.m.-4 p.m. Wednesday, April 30, and Thursday, May 1, at the Varsity Mart garage on the west side of the Memorial Union. Selected items from all departments will be on sale. In case of inclement weather, the sale will be held inside the Memorial Union.

## Next Issue

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Some of the many services the center will provide researchers are modeling, simulation and visualization tools for areas such as road and bridge construction, robotics for the health care industry and microsensors for industrial and military sectors. It also will have software development for data mining applications for science and engineering, continued support for NDSU's nanotechnology, corrosion and microsensing projects. In addition, center users can design integrated circuits of any size, conduct research on the identification and control of potentially dangerous microorganisms and simulate complicated virtual environments.

## New program to be on the alert for bio-terrorism

Within months, a special team of North Dakota professionals will be prepared for a potentially deadly race against time. Using high-tech equipment and a network of experts, the team will be on the lookout for bio-terrorism against America's livestock industry.

Funded through a \$1.25 million Federal Relations Grant supported by Sen. Byron Dorgan, the "Biosecurity, Disease Surveillance and Food Safety" project is a collaboration of NDSU, Dickinson State University and Research Extension Centers at Dickinson and Hettinger.

"This important effort is an excellent demonstration of our university's land-grant mission," said NDSU President Joseph A. Chapman. "Through the use of expertise, technology and laboratory facilities we will provide a needed service across the state. It also is a fine example of how campuses can work together for the betterment of our region and nation."

DSU President Lee A. Vickers said, "We are honored to have the opportunity to work collaboratively with NDSU and the Research Extension Centers in a project of this magnitude. This project will make available funds for cutting-edge technology and will benefit our region by positioning us to play a critical role in the homeland security effort. We will be able to maximize the resources and expertise of all the partners in addressing this significant challenge."

The aim of the project is to keep a watchful eye on cattle across the state, to be alert for possible outbreaks of disease.

"Bio-terrorism does not have to be against people. If you can cripple an agriculture industry, you've accomplished a serious attack and it could hurt all of us," said Douglas Freeman, chair and professor of veterinary and microbiological sciences and project principal investigator. "The overall objective of our group is to very rapidly identify the presence of a disease, diagnose it, contain it and minimize the potential negative impact."

Plans call for a rapid response team of trained personnel that will react to incidents where a disease outbreak may be emerging in a herd. Using cutting-edge equipment, the field teams will relay information via a communication center at DSU to NDSU's Veterinary Diagnostic Laboratory for analysis.

The project is critical in North Dakota because the Pembina, N.D., port of entry is the busiest in the nation for imported livestock. In addition, the southwestern part of the state is known for its livestock auctions, after which animals are often dispersed to as many as 17 states within a few days.

"For the beef industry in the state and the country as a whole, this is a serious undertaking," said Gary White, chair of agriculture and technical studies at Dickinson State University. Southwestern North Dakota is a corridor for livestock, and livestock can move very quickly. If a contagious disease was introduced, containing it quickly could be critical for the industry and our food supply."

Working with the State Veterinarian's office and the State Health Department, the rapid response team would go immediately to the scene of a suspected outbreak. The team, comprised primarily of Research Extension Center staff, will be equipped and trained to, for example, enter a 10,000-acre pasture, find all the animals there, gather them and collect samples. Then, using technology-based information systems and the Global Positioning System, the team can relay data through the DSU communications hub to NDSU's veterinary diagnostic lab.

"We can identify cattle with an unknown problem, know their exact location and do a field necropsy, with real-time images and conferencing from right there at the site," Freeman explained. "Pathologists at NDSU can give a preliminary read on what might be happening with those animals, and help determine whether something needs to happen immediately."

As White describes it, the project's primary goal is to combat potential acts of terrorism, but the network also can be used to combat such things as foot and mouth disease or other unintentional outbreaks. In essence, the program prepares the state for both possibilities.

"I hope we never have to use this system, but if we do, we need to do the best job possible to identify, isolate and contain any outbreak that we might have," White said. "If we prepare for the worst-case scenario, we'll be more capable and better prepared to deal any other animal health issue we might face."

The federal funds will be used to enhance NDSU's diagnostic laboratory facilities and add lab personnel, who will research ways to improve rapid diagnostic capabilities and develop new techniques. The money also will pay for the DSU communication hub and preparing the rapid response team.

In addition, the program will involve training producers, local veterinarians, border guards and sheriff's departments regarding key signs that they should watch for. "Those people would usually be the first eyes on site of a possible outbreak. Then our response team could be mobilized to get additional trained eyes there," Freeman said. "Hopefully, if there is a significant emerging disease, we can make the diagnosis rapidly and minimize its impact."

White is hopeful that before the end of this summer, the DSU communication center will be equipped and technicians will be trained to operate it. He also said he expects some of the teams to be in place at that time.

Freeman hopes the program will expand to include the entire Upper Great Plains, and he'd like the NDSU diagnostic lab, which is one of only 27 labs in the country accredited by the American Association of Veterinary Laboratory Diagnosticians, to become an important player in a national system to fight bio-terrorism.

## Forums for ITS director finalists held

Public forums are being held in the search for the new director of Information Technology Services. The four finalists were asked to present on the topic of "The Role of ITS in the 21st Century in a Land Grant Institution."

The finalists include Thomas Moberg, vice president and chief information officer, St. Louis University, St. Louis; Rosalinda Kloberdanz, NDSU Information Technology Services interim director; Paa-Bekoe Welbeck, vice president for informational technology and chief technology officer, Virginia Union University, Richmond, Va.; and Michael Salem, director of University Computing Services, University of Missouri-Columbia.

"We have choices to make, and we need a vision of where we are going," said Moberg during his April 17 presentation, which emphasized how ITS should be nimble and flexible, while focusing on strategic thinking and moving in step with the university. "In regards to technology and the university, our job is to do the best we can to support the educational mission," he said.

Moberg earned his bachelor's degree at Bemidji State University, Bemidji, Minn., his master's degree in mathematics from NDSU and his doctorate in statistics from the University of Iowa.

"Technology is advancing at breakneck speed. The lesson we've learned is that it's not about technology—it's about people and it's about community," said Kloberdanz, during her April 23 presentation in which she noted that she had helped lay the foundation of ITS. "My vision is that we maximize the IT infrastructure, services and support through partnerships."

Kloberdanz has been with ITS since 1983, except for July 1997-May 1998 when she was chief information officer for Montana State University, Billings. She earned her bachelor's degree at the University of Colorado, Boulder, and her master's degree in child development and family science from NDSU.

"There is no segment of the university that is not touched by ITS," said Welbeck as he gave his presentation April 25. He said strategic planning is needed for ITS to help fulfill the university's vision and mission, support all constituents and act as a custodian of the institution's investment. "I view IT as a service—a deliberate, goal-oriented, systematic set of processes used to create, revise, disseminate, store and retrieve knowledge on demand."

Welbeck previously was at the College of William and Mary, Williamsburg, Va., holding positions such as assistant provost for information technology and associate vice provost for academic technology. He earned his bachelor's degree at Livingstone College, Salisbury, N.C., his master's degree from Boston University's School of Public Communication and his doctorate in instructional development and technology from Michigan State University.

Scheduled to give his presentation April 29, Salem came to the University of Missouri-Columbia in 1998. Prior to that, he worked for the Metro-Dade County, Fla., Department of Environmental Resources Management as chief officer of the Computer Services Division, computer services manager and system analyst. Salem earned his bachelor's degree and a master's degree in marine and environmental sciences from Long Island University, N.Y., and a master's degree in Management Information Systems from Nova Southeastern University. He is currently working on a doctorate.

The search committee anticipates that it will make its recommendation by mid-May to President Joseph A. Chapman and Craig Schnell, provost and vice president for academic affairs. It is hoped that the position can be filled by July 1.

## Summer publication dates set for 'It's Happening'

Regular weekly publication of "It's Happening at State" will end for the semester with the May 14 issue. Summer editions are planned for June 11 and July 16, and weekly publication will resume Aug. 20. Deadlines for submission to the summer issues will be at noon June 5 and July 10. The deadline for the Aug. 20 issue is noon Aug. 14.

To submit information for the summer issues or for more information, contact Ellen Puffe at [ellen.puffe@ndsu.nodak.edu](mailto:ellen.puffe@ndsu.nodak.edu).

## Telepharmacy program receives additional federal funding

The NDSU College of Pharmacy recently was notified that it is set to receive more than \$577,000 in additional federal dollars to fund the second year of the statewide telepharmacy program.

The one-year grant, funded by the Department of Health and Human Services' Health Resources and Services Administration Office of Advancement of Telehealth, is slated to begin Sept. 1.

Eighteen rural North Dakota communities are impacted by NDSU's telepharmacy project in which a pharmacist can provide prescription services and pharmacist consultation to remote rural areas of the state. The pharmacist supervises a registered pharmacy technician at the remote site through the use of audio and video computer links.

In its first year, the program received \$594,000 in federal funds to establish telepharmacy services in the North Dakota communities of Killdeer, Beach, New England, Maddock, Rolette, Forman, Gwinner, Watford City and New Town. Additional communities targeted to have pharmacy services retained or restored through telepharmacy in 2003 are LaMoure, Enderlin, Lisbon, Oakes, Rugby, Velva, Mohall and Lidgerwood.

"This is a great outreach program for us which is having a significant impact on the lives of the citizens in rural North Dakota," said Charles Peterson, dean of pharmacy and principal investigator and chair of the North Dakota telepharmacy project. "The benefits of this project are multi-faceted and include restoring health care access to many under-served areas of the state, enhancing rural economic development by building new businesses and adding good paying jobs in the smaller rural communities in North Dakota. And with a telepharmacy network being installed in NDSU's new concept pharmacy, it will also expose pharmacy students in their training to the latest advances in pharmacy technology and also teach them how to deliver pharmacy services in an innovative way to rural communities across the country."

The North Dakota program has received requests from South Dakota, Montana and Hawaii for assistance in setting up similar programs in those states.

Thomas Christensen, clinical assistant professor of pharmacy practice, is the project's co-principal investigator.

## Software cluster changes proposed

The University Senate's standing committee on Computer Information Technology Planning and Goals (CITPG), along with Information Technology Services, have assessed student, faculty and staff computer cluster software needs, and have proposed the following changes for fall semester. CITPG is scheduled to hold a public discussion on the changes at 2 p.m. Monday, May 5, in Minard 120.

The CITPG and ITS policy is to upgrade operating systems for fall semester if the software is released by Jan. 1 of that year. Applications will be upgraded if the software is released by July 1. A complete list of ITS-supported public cluster software is found at [www.ndsu.nodak.edu/its/resources/docs/clusters/software.shtml](http://www.ndsu.nodak.edu/its/resources/docs/clusters/software.shtml).

The following changes have been proposed for fall 2003.

### PC software

- AutoCad—upgrade to 2004
- Arcview—upgrade to 8.3
- Borland C++ Builder—upgrade to 6.0
- Dreamweaver—upgrade to MX 6.1
- Mulberry—remove. ITS will support a web-based client called "Squirrelmail."
- Netscape 4.0.8—will be removed from clusters. No longer considered a "standards-compliant" Web browser.
- NetSupport School—upgrade to version 6. Low usage indicates the installation will not be renewed in summer 2004.
- OmniPage—upgrade to 12
- Poser—upgrade to 5
- Visual Analyst—upgrade to 7.6. Low usage indicates the installation will not be renewed in summer 2004.

### Macintosh software

- Mac OS—MacOS 10.2. MacOS 10.2 will be supported under "normal" mode only. ITS will not support "classic" mode. Any programs that require classic mode will not be installed. All faculty who have software installed on the Macintosh clusters need to make sure their software will run under MacOS 10.2 without requiring classic mode.

### Software package

- AppleWorks—upgrade to 6.2.4
- Dreamweaver—upgrade to MX 6.1
- Mulberry—remove. ITS will support a Web-based client called "Squirrelmail."
- Poser—upgrade to 5

For more information, contact James Ross, associate director of information technology services, at [james.ross@ndsu.nodak.edu](mailto:james.ross@ndsu.nodak.edu).

## Library return reminder

NDSU Libraries reminds faculty, staff and students to return library materials before leaving for the summer.

Users may obtain a summary listing of library materials checked out, overdue items, holds, status of ILL material and fines by using the online catalog command. In WebPALS, select the Library catalog and click on "Patron Info Page." When prompted, provide the barcode and password (last name). The "My Library" log on the libraries' home page also may be used.

For more information call the Circulation Desk at 1-8888.

## Student government holds fund-raiser for Make-A-Wish

Funds raised by NDSU Student Government will help make a dream come true for a young Make-A-Wish Foundation recipient.

A "Jail 'n' Bail" fund-raiser, held in February in the Memorial Union, raised more than \$2,800 to help make 16-year-old Andy Murphy's wish come true. Murphy, who battles B-cell lymphoma, will meet soon with Make-A-Wish volunteers to help him realize his wish. He and his family live in Dickinson.

Established in 1985, Make-A-Wish Foundation of North Dakota has granted more than 360 wishes to North Dakota children. The foundation's sole purpose is to grant wishes to children with life threatening illnesses.

## People

### Gunkelman Award ceremony scheduled, nominees announced

Ceremonies to present the 2003 Mary McCannel Gunkelman Recognition Award are scheduled for 3 p.m. Wednesday, April 30, at the Alumni Center. A total of 43 people have been nominated for the honor which recognizes the person who has made the most significant and unselfish contribution to creating a happy environment for the enjoyment of NDSU students.

Nominees include Donna Alby, mechanical engineering; George Arel, Physical Plant; Mikey Ausmus, student; Aquina Beck, Dining Services; David Berryhill, animal and range sciences; Betsy Birmingham, English; Lada Burgard, custodian; Tiffany Cermak, student; Gary Clambey, biological sciences; Jakelle Cornell, student; Tammy Cummings, Information Technology Services; Larry Czichotzki, custodian; Brenda Deckard, plant sciences; Ed Deckard, plant sciences; Keri Drinka, college advancement; Peggy Gaynor, Counseling and Disability Services; Linda Gill, Office of the Vice President and Provost for Academic Affairs; Janice Glatt, accounting and information systems; Richard Gunderson, custodian; Renee Gustafson, Office of the Vice President and Provost for Academic Affairs; Debra Habedank, child development and family science; Melissa Hertz, student; Carole Huber, computer science; Ryan Jacobson, student; Paula Larsen, English; Deborah Maertens, international programs; Sudhir Mehta, mechanical engineering and associate vice president for academic affairs; Lisa Moon, graduate student; Terry Mulvaney, Physical Plant; Tiffany Neuharth, mechanical engineering; Judy Normann-Johnson, statistics; Shawn Odden, custodian; Kelly Paynter, communication; Tammie Reger, TRIO Programs; Ingrid Scarski, construction management and engineering; Jeri Schmidt, student; Rebecca Sitte, student; Josh Slattengren, student; Brad Sonmor, Varsity Mart; Kate Ulmer, sociology; John Underwood, ITS; Diane Wadholm, Varsity Mart; and John Weitzel, custodian.

The award was established in 1987 with the first award in 1989 in honor of Mary McCannel Gunkelman, who died in 1985. She was a 1942 graduate of the NDSU College of Home Economics. Funds were provided by the late John Gunkelman and his family. The endowment is open to additional contributions.

## McCullagh named to peer review panel

Marjorie McCullagh, assistant professor of nursing, has been named to the Nursing Research journal's peer review panel.

The official journal of the Eastern Nursing Research Society and the Western Institute of Nursing, Nursing Research provides a forum for the dissemination of a wide variety of nursing research. According to the Information Sciences Index's Social Science Citation Index, the publication ranks second among 42 nursing journals.

McCullagh will be responsible for reviewing manuscript submissions on topics including occupational health and health promotion. She will evaluate manuscripts for their contribution to knowledge, value of method, significance of findings and relevance to contemporary nursing. Article selection is based on peer review results.

"This is an exciting opportunity to provide service to the profession of nursing through contributing to the quality of research published in the journal and to be a part of the process of research dissemination," McCullagh said. "The appointment comes with an opportunity to work with an expert editorial staff to produce high quality reviews."

Two of McCullagh's articles have been published in Nursing Review in the past two years. She joined the NDSU faculty as an assistant professor in 1986. She has a bachelor's degree in nursing from the University of Albany, a master's degree in nursing from the University of North Dakota and a doctorate in nursing from the University of Michigan, Ann Arbor.

## Admissions staff members recognized

Jill Walkinshaw, admission counselor, received the "Friend of DACAC" award at the annual meeting of the Dakota Association for College Admission Counseling held April 10 in Rapid City, S.D. The award is given annually to a person who provides exemplary service to the organization. Walkinshaw has been an active member of DACAC and served as the chair of this year's professional development committee. She also served this year as the DACAC-North Dakota Council secretary.

Jobey Lichtblau, senior associate director of admission, was elected DACAC president-elect at the same meeting. Lichtblau will represent North Dakota and South Dakota at the national level and will provide general leadership. He assumes the one-year term as president July 1, 2004.

DACAC is a regional affiliate of the National Association for College Admission Counseling. Both organizations are committed to providing support and advancing the work of high school and college counselors as they help students as they make choices about pursuing post-secondary education.

## Harris selected to edit entomology journal

Marion Harris, associate professor of entomology, has been chosen for a two-year term as a subject editor for the Environmental Entomology journal.

The bimonthly publication of the Entomological Society of America publishes reports about the interaction of insects with the biological, chemical and physical aspects of their environment. Harris will be responsible for the review of manuscripts on insect behavior. She previously served as associate editor.

## Larew honored by Delta Upsilon Fraternity

Donald Larew, professor of theater arts, was honored by NDSU's Delta Upsilon Fraternity for his years of service as the chapter's faculty adviser in a ceremony held April 5 at the Alumni Center.



Larew

The fraternity dedicated the chapter room of its new house in honor of Larew, who has served as the chapter's adviser since it received its charter in 1970. Larew also received special recognition from Delta

Upsilon's international fraternity.

Alumni and undergraduate chapter members attended the ceremony. Also participating was Craig Sowell, who represented Delta Upsilon's international office.

## Danbom article published

"Flour Power: The Significance of Flour Milling at the Falls," an article by David Danbom, professor of history, was published in the spring/summer issue of Minnesota History.

The article describes the history of the flour milling industry developed at Minneapolis' St. Anthony Falls in the years following the Civil War. By 1890, Minneapolis was recognized as the flour milling center of the country, with the United States leading the world in flour milling.

Danbom examines reasons for the area's rise to flour milling greatness including St. Anthony Falls' water power, and entrepreneurial energy of early millers such as Cadwallader Washburn and Charles Pillsbury.

The article appears as part of a special issue of Minnesota History highlighting the Mill City Museum, scheduled to open at St. Anthony Falls in September.

## NDSU Saxophone Quartet wins regional competition



NDSU Saxophone Quartet

The NDSU Saxophone Quartet took top honors in the North American Saxophone Alliance Region 3 competition April 16 held as part of alliance's regional conference at Concordia College, Moorhead.

The organization is made up of professional and student concert and jazz saxophonists who meet for regional, national and international conferences that include recitals, lectures and premieres of new music for saxophone. Region 3 includes North Dakota, South Dakota, Minnesota, Iowa and Nebraska.

The quartet members are senior Jeremy Marquardt, Minot, N.D.; sophomore Rena Kuch, Hannover, N.D.; senior Jennifer Braus, Bismarck; and freshman Brian Wittkop, Fargo. The quartet is taught and coached by Matthew Patnode, assistant professor of music. The quartet also was chosen as national finalists at the Music Teachers National Association chamber music competition held recently in Salt Lake City.

## Engineering faculty, students honored

Several engineering faculty and students were honored at the engineering honors lunch held April 22.

Donald A. Andersen, associate professor of civil engineering, was named the College of Engineering and Architecture's Teacher of the Year for 2003. In a letter of nomination, Andersen's classes were described as thought-provoking, easily understood and universally applied. The letter went on to say, "He is a highly effective speaker and teacher, involving the audience through relevant anecdotes."

Andersen received a plaque and a \$2,000 cash award. Also nominated were Robert Pieri, professor of mechanical engineering, and industrial and manufacturing engineering assistant professors Canan Bilen-Green and James Bartlett.

The Dean's Awards for Outstanding Teaching, were presented to Wei Lin, assistant professor of civil engineering, and Leslie Backer, associate professor of agricultural and biosystems engineering.

"Dr. Lin is the most available instructor to the students in the department," said G.Padmanabhan, director and chair of civil engineering. "He is demanding and at the same time, very helpful. He cultivates students to develop their abilities, and works with them, step by step."

Backer's skills as a teacher of technical writing were recognized in his nomination letter. "Students become much improved writers," said Earl Stegman, chair and professor of agricultural and biosystems engineering. "Typical students evaluations say 'I think more critically, he has high standards of grading, and he changed the way I write.'"

Kalpna Katti, assistant professor of civil engineering, was named Researcher of the Year. She was recognized for her substantial research funding in the emerging field of material science, and the development of the college's advanced materials laboratory. She also was recognized for her involvement with the NDSU student chapter of the Materials Research Society of America and a new graduate course on nanotechnology. She received a \$2,000 cash award.

Other nominees were Joydeep Mitra, assistant professor of electrical and computer engineering; Dennis Wiesenborn, professor of agricultural and biosystems engineering; and Gholamreza Nakhaie Jazar, assistant professor of mechanical engineering.

Yunling Zheng, a third-year doctoral student in agriculture and biosystems engineering, was named Graduate Researcher of the Year. Zheng is developing processes to fractionate flaxseed for improved food products. Zheng received a \$250 cash award. Other nominees were Tristan Simetkosky, electrical and computer engineering; Mohammad Aagaah, mechanical engineering; and Ramesh Gautam, agricultural and biosystems engineering.

Keynote speakers were Richard J. Kasper, BS '75, president and CEO of Global Electric Motor Cars, and Richelle Kondratowicz, a senior majoring in industrial engineering and manufacturing.

## Foster elected to international entomology society office

Stephen Foster, associate professor of entomology, has been elected to a three-year term as secretary of the International Society of Chemical Ecology (ISCE). ISCE is a professional society "organized exclusively for scientific purposes, more specifically to promote the understanding of interactions between organisms and their environment that are mediated by naturally occurring chemicals."

Currently, ISCE has a membership of more 600 people in approximately 35 countries. For more information, visit the society's Web site at [www.chemecol.org](http://www.chemecol.org) or contact Foster at [stephen.foster@ndsu.nodak.edu](mailto:stephen.foster@ndsu.nodak.edu).

## Kapplinger serves as juror for North Dakota Student Art Show

Kent Kapplinger, assistant professor of art, served as a juror for the North Dakota Juried Student Art Show, held April 5, at the Taube Museum, Minot, N.D.

More than 700 entries from students in grades K-12 were received. Awards included the Governor's Award, Northern Visions, the State of the Arts, An Artistic Discovery and the Taube Museum of Art Award. A statewide tour of accepted pieces is planned.

Kapplinger teaches printmaking and drawing and is the master printer and director for the Printmaking, Education and Research Studio (PEARS) in the Division of Fine Arts.

## NDSU students win awards at regional mechanical engineering conference

Fourteen students in the NDSU chapter of the American Society of Mechanical Engineers (ASME) received awards at the society's Region VII student conference and competition held recently in Minneapolis. The NDSU chapter is advised by Mohammed Mahinfalah, associate professor of mechanical engineering.

Senior Aaron Ryan took the first place individual award for his technical poster on a wind tunnel airfoil experiment. Senior Nathan Overby received fifth place for his oral presentation on Amertap Collection Baskets. Other competitors were seniors Jedidiah Falck, Mark Stoltman, Darron Carr, Jonathan Lacher and Jason Kamrud.

The NDSU team took third place in the Ingersoll-Rand competition, the student chapter contest between colleges and student organizations judged on the quality of chapter activities including reporting, meetings, tours, social events, news articles, membership development, service activities, regional student conference activities, professional development and upgrading activities.

Thirteen schools from six states attended the conference.

Ryan also was elected student representative to the student section committee for all Region VII student chapters. Mahinfalah serves as the committee's senior representative.

## Student named to Arthur Ashe Jr. Sports Scholars list

Volleyball middle hitter and All-American track sprinter Nicole Rieck was named to the 2003 Arthur Ashe Jr. Sports Scholars list, presented annually by Black Issues in Higher Education magazine. The honor is presented to undergraduate students of color who exemplify academic excellence and community activism in addition to athletic ability.

Rieck, a 5-foot-10 junior from Huron, S.D., was named to the women's volleyball first team. She maintained a 3.57 grade point average during the fall and has a 3.65 overall grade point average.

A two-sport athlete at NDSU, Rieck was the starting middle hitter on 2002 Bison volleyball squad and also was a sprinter on the 2002 NCAA Division II indoor national champion 1,600 meter relay squad and is a two-time All-American overall. In addition, she was named to the 2002 USTCA Division II All-Academic team and was honorable mention on 2002 North Central Conference All-Academic volleyball squad.

Rieck is the second NDSU female student-athlete to receive the award. Sprinter Tamara Brudy was selected in 2002.

The magazine established the Sports Scholar Award in 1992 to honor student athletes of color who exemplify the standards set by tennis great Arthur Ashe Jr. To be included, students have to compete in an intercollegiate sport, maintain and cumulative grade point average of at least 3.2 and be active on their campuses or in their communities.

## Student named Baseball Player of Week

Senior infielder Brandon Olson was named the North Central Conference Baseball Player of the Week. The announcement was made on April 23.

Olson, a native of St. James, Minn., had eight hits in 14 at bats, scored three runs, had four runs batted in and stole two bases during four rescheduled games with Minnesota State University, Mankato.

This is the second time this season that he has earned the honor.

## Events

### Faculty opportunities abroad meeting set

An informational meeting on faculty opportunities abroad is scheduled for 9-10 a.m. Thursday, May 1, in the Memorial Union Meadow Lark room. The meeting is organized by the Office of International Programs.

The presentation will include information on Fulbright grants, the Maastricht Center for Transatlantic Studies, CIEE international faculty seminars and other opportunities for faculty overseas. The Faculty International Development Grant also will be discussed.

For more information, contact the Office of International Programs at 1-7895.

### 5:01 Entrepreneur Society meeting scheduled

A meeting of the 5:01 Entrepreneur Society is scheduled for 5:01-7:30 p.m. Thursday, May 8, at Microsoft Business Solutions, One Lone Tree Road, Fargo.

Sponsored by the NDSU Research and Technology Park, Microsoft Business Solutions and Flint Communications, the meeting is designed as a networking event for local entrepreneurs, students and business owners. Thor Iverson, founder of *BeAtHome.com*, is the scheduled speaker.

For more information or to RSVP, contact Jan Sobolok at 1-6698 or [jan@ndsuresearchpark.com](mailto:jan@ndsuresearchpark.com).

### Summer orientation dates scheduled

The Office of Orientation and Student Success has scheduled summer orientation and registration for several dates in June and July.

Orientation and registration is designed to acquaint students with the campus and university life. Students also will have the opportunity to register for fall semester classes.

An overnight honors session for students with an ACT score of 29 or higher, students receiving Presidential and National Merit scholarships and those accepted into the University Honors program is scheduled for Thursday and Friday, June 12-13. A one-day session for transfer students is scheduled for Monday, June 23.

Overnight sessions for freshmen and their families are set for Tuesday and Wednesday, June 23-25; Wednesday and Thursday, June 25-26; and Thursday and Friday, June 26-27. One day sessions for freshmen and their families are planned for Tuesday, July 8; Wednesday, July 9; and Thursday, July 10.

For more information, contact the Office of Orientation and Student Success at 1-8379.

## Shorts and Reminders

### Captioning service offered

NDSU Disability Services now offers a captioning service for videos available to all North Dakota University System campuses. The service is free of charge. For more information, contact Cathy Anderson in the Counseling and Disability Services Office at 1-7198.

### Food production management meal

The final food production meal for the semester is set for 11:30 a.m.-noon Tuesday, May 6, in the lower level of West Dining Center. The menu for "Picnic in the Woods" includes Minnesota wild rice soup, grilled chicken breast sandwiches, spicy potato wedges, chocolate brownies with frosting and a choice of beverages. Cost of the meal is \$5.85 or free to those on a meal plan. For reservations, call 1-7023.

### NDSU ranks fifth in volleyball attendance

The NDSU women's volleyball team was fifth in NCAA Division II attendance following the 2002 season and ranked 60th overall nationally among all NCAA schools in attendance, according to figures compiled by the national office. NDSU attracted 8,559 spectators over 16 dates for an average of 534 per contest. The school record is 698 fans per match achieved in 1999. NDSU drew a season-high 1,262 fans to a win over the University of North Dakota on Nov. 12. The team is scheduled to open the 2003 schedule at the Bentson Bunker Fieldhouse with the NDSU Volleyball Classic on August 29-30.

### Union Food Court specials for April 30-May 7

#### Soup of the day

Wednesday: minestrone and baked potato  
 Thursday: vegetable beef and cheeseburger  
 Friday: chicken dumpling and navy bean  
 Monday: chili beef and knoepla  
 Tuesday: chicken noodle and beer cheese  
 Wednesday: wild rice and vegetarian vegetable

#### The Corner Deli

Wednesday: chicken Caesar wrap  
 Thursday: roast beef  
 Friday: turkey  
 Monday: ham  
 Tuesday: chicken  
 Wednesday: All-American wrap

#### A La Carte

Wednesday: grilled chicken alfredo  
 Thursday: hot ham and cheese wrap  
 Friday: hand-carved roast beef  
 Monday: chicken strips  
 Tuesday: big Texan salad  
 Wednesday: spaghetti and meatballs

#### Pizza Express

Wednesday: farmhouse  
 Thursday: Red River  
 Friday: Hawaiian  
 Monday: bacon cheeseburger  
 Tuesday: taco  
 Wednesday: creamy garlic chicken

### The Union Grab and Go

Wednesday: meat lasagna  
 Thursday: beef broccoli  
 Friday: roast beef  
 Monday: chicken Szechwan  
 Tuesday: broasted chicken  
 Wednesday: beef teriyaki

Items are subject to change without notice. Call the Dining Services Lunch Line at 1-9501 to check out all of our daily specials. Questions or comments may be dropped in the suggestion boxes located in each dining center and the Union Food Court or call Kristina at the Union Buffet at 1-8122.

### Positions Available

Positions open and screening dates through the Office of Human Resources, Room 205, Old Main:

Administrative Secretary/#999  
 Memorial Union  
 \$22,000+/year  
 April 28 (internal); May 5 (external)

Engineering Technician  
 Available after June  
 Center for Nanoscale Science and Engineering  
 Salary commensurate with experience  
 May 9

Process Engineer  
 Available June  
 Center for Nanoscale Science and Engineering  
 Salary commensurate with experience  
 April 30

Package Design Engineer  
 Available after July  
 Center for Nanoscale Science and Engineering  
 Salary commensurate with experience  
 May 16

Position openings also are available through the NDSU Web site at [www.ndsu.edu/jobs](http://www.ndsu.edu/jobs).



## Research Opportunities

The Office of Sponsored Programs Administration announces the following funding opportunities and deadlines. For more information, refer to the Web site or contact information provided with each listing. For information about other grant opportunities, you may conduct an online funding search via the Community of Science Web site at [www.cos.com](http://www.cos.com), and clicking on "Services," then "COS Funding Opportunities."

### Economic Development

The Economic Development Administration invites proposals for economic development projects that seek to enhance regional competitiveness and support long-term development of the regional economy. Proposals in technology-led economic development should reflect the important role of the research and development capacity of universities in regional development, and create and support technology transfers. A total of \$288.12 million has been appropriated for this program in fiscal year 2003. Approximately \$496,750 is available for the program's research and evaluation component. The average funding level for an investment of this component in fiscal year 2002 was \$105,000. Eligible recipients of EDA financial assistance are defined at 13 CFR 300.2 and eligible applicants are specified at 13 CFR 301.1. To apply for an award under this notice, eligible recipients must submit a pre-application proposal to the appropriate economic development representative for their area or regional office. Proposals are accepted on a continuing basis, and applications are invited and processed as received. More information is available in the April 9 edition of the Federal Register at [www.access.gpo.gov/su\\_docs/fedreg/frcont03.html](http://www.access.gpo.gov/su_docs/fedreg/frcont03.html).

### Flexible Display Science and Technology Solutions

The Army announces its intention to create and sponsor a university-led center to develop flexible display science and technology solutions for the Army Transformation. The intent of the center is to establish a core capability to address science and technology for the development of flexible displays in a pre-competitive environment. The Army requests information on capabilities in flexible displays and related technologies to include substrates and barrier coatings, backplane electronics, electro-optic devices, packaging and testing, and production/manufacturing. The goal is to research, develop and manufacture flexible displays in limited numbers, producing 4- to 6-inch displays along with performing the applied research and development to achieve larger display sizes. Because this technology has significant dual-use potential, industry participants will have the opportunity to invest dollars in and provide personnel to the center. Industrial companies would have levels of engagement in the center based on the level of individual co-investment. Responses are due May 9. More information is available at [www.eps.gov/spg/USA/USAMC/DAAD19/DAAD19-00-R-0010/listing.html](http://www.eps.gov/spg/USA/USAMC/DAAD19/DAAD19-00-R-0010/listing.html).

### Agricultural Disease and Injury Research, Education and Prevention

The National Institute for Occupational Safety and Health (NIOSH) invites applications for funding to establish Centers for Agricultural Disease and Injury Research, Education and Prevention. The purpose of the centers is to conduct prevention/intervention, education/outreach and research programs that address agricultural safety and health problems in the geographic region served (multi-state), as well as nationally. NIOSH intends to commit approximately \$1 million in fiscal 2003 to fund one or two awards. An applicant may request a project period not to exceed three years and a budget of up to \$1 million total costs per year. Domestic public or private universities and domestic for-profit or nonprofit medical centers are eligible to apply. Optional letters of intent are due May 20 and applications are due June 12. More information is available at <http://grants1.nih.gov/grants/guide/rfa-files/RFA-OH-03-002.html>.

### Training at the Intersection of the Biological and Mathematical Sciences

The National Science Foundation invites proposals for a program to enhance interdisciplinary education and training for undergraduates at the intersection of the biological and mathematical sciences. The goal is to stimulate development of a future work force, including teachers and researchers, that is prepared to work in the increasing number of areas where these two disciplines connect. Funding provided during fiscal 2003 will come from programs through supplements to existing awards. Supplemental award amounts will range up to a total of \$100,000 for up to two years. Funding requests for items other than stipends for undergraduate research participation should not exceed 20 percent of the total amount (over all years) of the award being supplemented. Projects that include participation of underrepresented groups and students at minority-serving institutions and two-year colleges are encouraged. Proposals submitted by June 2 will receive consideration for fiscal 2003 funding. More information is available at [www.nsf.gov/pubsys/ods/getpub.cfm?nsf03037](http://www.nsf.gov/pubsys/ods/getpub.cfm?nsf03037).

### Research, Development, and Technology to Combat Bioterrorism

The Army, on behalf of the Homeland Security Department, is calling for white papers proposing ideas for innovative research, development and technology related to homeland security, especially projects to combat bioterrorism. Areas of interest include chemical, biological, radiological and nuclear countermeasures; emergency preparedness and response; information analysis and infrastructure protection; and border and transportation security. Two broad agency announcements (BAA), the official solicitation packages, describe the interest areas for research and development and explain the process. Individuals may register to receive the announcements via the BAA Information Delivery System (BIDS), which is used to obtain solicitations and submit responses. The Army encourages interested parties to register early with BIDS to ensure that their accounts are functional and confirm access to the site. Visitors to the site may download solicitations, but only registrants may submit responses. For the pre-solicitation notices, consult [www.FedBizOpps.gov](http://www.FedBizOpps.gov), and search for "DAAD05-03-T-0023" (technology), or "DAAD05-03-T-0024" (research and development). The BAA Web site is [www.bids.tswg.gov](http://www.bids.tswg.gov).

## Calendar

### April

Through May 1 "Down to Earth—Photographs of North Dakota," exhibition by photographer Dan Koeck, President's Gallery, Old Main

Through May 6 Baccalaureate exhibition—Christine Gallagher, Reineke Visual Arts Gallery.

Through June 23 "TV in '53" exhibition, NDSU Libraries' Lower Level Gallery

30 Architecture and landscape architecture thesis preview days, Memorial Union Gallery. Reception 4-6 p.m. Wednesday, April 30. Sponsored by the Department of Architecture and Landscape Architecture, F-M area architects and the Memorial Union Gallery.

30-May 3 Little Country Theatre—"SubUrbia" by Eric Bogosian, 9 p.m., Askanase Auditorium. Tickets are \$10 for adults, \$8 for seniors and students, and \$4 for NDSU students. Due to adult content, no one under 16 will be admitted without a parent.

### May

1-16 Architecture and landscape architecture award finalists, Memorial Union Gallery. Fifth-year awards ceremony reception, 4-6 p.m. Friday, May 9. Sponsored by the Department of Architecture and Landscape Architecture and the Memorial Union Gallery.

2 Environmental and conservation sciences graduate program—Paul Barnes, Southwest Texas State University and candidate for environmental and conservation sciences director, "Ecological Consequences of Global Environmental Change: Case Studies from Texas and Argentina," 10 a.m., Stevens 230

2 Animal and range sciences—Sharon Escue, graduate student, "Ammonia Emissions from Feedlot Manure-Environmental Concerns and Possible Reduction Strategies," 3 p.m., Hultz 104

2 Plant sciences—Harlene Hatterman-Valenti, assistant professor of plant sciences, "High-Value Crops Research," 3:30 p.m., Loftsgard 114

2 Varsity Band and Brass Ensemble concert, 7:30 p.m., Festival Concert Hall. Tickets are \$5 for adults and \$2 for students, seniors and children.

3 Concert Band concert, 7:30 p.m., Festival Concert Hall. Tickets are \$5 for adults, and \$2 for students, seniors and children.

5-15 Army ROTC and Bison Raiders food drive for Churches United for the Homeless. Canned goods accepted in Bentson Bunker Fieldhouse room 103 and in residence hall collection boxes. Call 1-9577 for information.

5 Physics—Anna C. Balazs, University of Pittsburgh, "Modeling the Self-Assembly of Copolymer/Nanoparticle Mixtures," 11 a.m., Memorial Union University Chamber

6 Spring choral concert, 7:30 p.m., Festival Concert Hall. Tickets are \$5 for adults and \$2 for students, seniors and children.

8-18 Baccalaureate exhibition—Quentin Martin, Reineke Visual Arts Gallery. Reception 6:30 p.m. Thursday, May 8.

8 Communications—"Growing North Dakota: Communication Student Symposium," 11 a.m., Memorial Union Century Theatre

8 Research and Technology Park's 5:01 Entrepreneur Society meeting, 5:01 p.m., Microsoft Business Solutions Horizon Hall, One Lone Tree Road, Fargo. Contact Jan Sobolik at 1-6698 or [jan@ndsuresearchpark.com](mailto:jan@ndsuresearchpark.com) for more information.

9 Printmaking and ceramic sale, noon-6 p.m., art building

16 Commencement, 4 p.m., Fargodome

26 Memorial Day holiday—university closed

29-30 Agricultural Competitiveness and World Trade Liberalization: Implications of the WTO and FTAA" conference, Ramada Plaza Suites and Conference Center



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