

## NDSU makes budget presentation to Board of Higher Education

North Dakota State University is requesting \$2.4 million dollars in additional appropriations over its 1999-01 budget to continue operating at current service levels for 2001-2003. The proposal is an early step in a budget process that will end with final legislative action around April 2001.

NDSU's proposal was presented Feb. 17 to the State Board of Higher Education for President Chapman by Vice President for Academic Affairs Craig Schnell, who filled in while the Chapmans were out of state on a personal matter. Included in the \$2.4 million are inflationary adjustments for operating costs and utilities. Not included are salary adjustments, which have yet to be determined.

"The \$2.4 million is what we need just to maintain our current service levels," Chapman said. "Our budget for 1999-01 was \$244 million."

In addition, Schnell presented \$3.4 million in special initiatives for new programs to enhance student services and academic programs. Initiatives for students include \$450,000 for student disability services and \$475,000 for enhanced student advising. Academic program enhancements include \$400,000 for new doctoral programs in experimental psychology and communication, and \$200,000 to enable partnerships in pharmacy, nursing, dietetics, clinical lab sciences and respiratory care professionals between NDSU and Innovis, a new Fargo hospital.

"Because NDSU experienced a rapid increase in enrollment at a time when state resources were very tight, we were asked to identify new programs and services we could offer if additional funds were available," Chapman said. "We think we have come with a strong list of programs that will help us meet our goal of taking NDSU to the next level of service to our state."

The budget presentation can be viewed at [www.ndsu.edu/ndsu/administration/president/](http://www.ndsu.edu/ndsu/administration/president/).

## Board approves tuition increase for 2000-01

At its meeting Feb. 17, the State Board of Higher Education approved a 4.1 percent tuition increase for the 2000-01 school year at NDSU. The change will raise the one-year cost of room, board and fees from \$6,180 to \$6,434.

The board approved tuition increases for all schools in the North Dakota University System. UND had the highest increase at 4.5 percent, bringing its rate to \$6,650 per year.

NDSU's request to establish a Northern Plains Ethics Institute also was approved.

### Faculty, staff invited to participate in inaugural ceremony

Faculty and staff interested in participating in President Chapman's inaugural ceremony May 4 may rent academic apparel from the Varsity Mart; the apparel may be retained for the May 13 spring commencement ceremony. Those interested in participating also should contact Tom Barnhart, who is coordinating the inaugural march.

### VP finalists to present open forums

Within the next two weeks, four finalists competing for the vice president for research, creative activities and technology transfer position at NDSU will be presenting open forums addressing the topic "Advancing Research, Creative Activities, and Technology Transfer: A Vision for NDSU." The entire campus community is invited to the open forums. The candidates and their scheduled open forums are listed in the calendar on page 11.

A copy of the files and full vita of each of the finalists are available for viewing at the circulation desk in the Main Library or at 123 Sudro Hall.

### Next Issue

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Old Main 204  
Voice: 231-8326  
Fax: 231-1989  
[bclemens@gwmail.nodak.edu](mailto:bclemens@gwmail.nodak.edu)

## Corrosion/Coatings Center receives Air Force grants to research aircraft protection

NDSU's Corrosion/Coatings Research Center has received \$2 million in Department of Defense/Air Force Office of Scientific Research (AFOSR) grants to research corrosion protective coatings for Air Force aircraft. Sen. Byron Dorgan, who was instrumental in securing the funding for NDSU, came to campus Feb. 17 to tour the research facilities.

The funding, which includes \$1,250,000 for fiscal 1999 and \$800,000 for fiscal 2000, supports research into corrosion



**Gordon Bierwagen and Sen. Byron Dorgan tour a research lab during Dorgan's Feb. 17 campus visit.**

protection of aluminum alloys used in planes. The interdisciplinary research project is a joint effort involving the NDSU Departments of Polymers and Coatings, Chemistry and Electrical and Computer Engineering.

The research will develop new methods and equipment for characterizing corrosion protective coatings, use the methods to measure and predict the lifetime of performance of the coatings and develop new materials that will enable the Air Force to acquire improved coatings that meet environmental legislation, such as coatings that are free of chromate-based corrosion protective coating and metal pretreatments.

"This work was identified as a high priority by the NDSU Federal Relations Committee," said Gordon Bierwagen, professor and chair of polymers and coatings. "Sen. Dorgan's help as a member of the Senate Defense Appropriations Sub-committee was critical in receiving this funding. With his continued support, we are hopeful of additional federal grants in the future."

The funds extend a large project originally funded by AFOSR, the basic research funding agency of the Air Force. Previously, an interdisciplinary group of NDSU faculty, with Bierwagen as principal investigator, won a competitive DoD University Research Initiative grant in 1996-2000 for \$2 million for a research program entitled "Corrosion Testing, Lifetime Prediction and Corrosion Sensor Development for Coated Aircraft Systems."

The work on corrosion and coatings began in Nov. 1992 after receipt of a 2-year \$224,000 research grant from the Office of Naval Research on "Corrosion Characterization in Coated Systems using Electrochemical Noise Methods," co-directed by Dennis Tallman, professor of chemistry, and Bierwagen. The researchers also won a DoD-ASSERT graduate student training research grant, which enabled them to expand the research from its focus on steel naval vessels to the corrosion protection of naval aircraft. The research for the Air Force followed.

The Corrosion/Coatings Research Center at NDSU is the only group at a major university that focuses on corrosion protection of metal substrates by organic coatings. Besides Bierwagen and Tallman, the center also includes Philip Boudjouk, professor of chemistry; Mukund Sibi, professor of chemistry; and David Farden, professor of electrical and computer engineering.

## University Senate approves by-laws changes

The University Senate gave second reading and final approval to a number of changes to its bylaws Feb. 14. The changes had been recommended by the Special Committee on University Governance.

Among the changes, Executive Committee members will now serve as liaisons for each of the Senate's standing committees, except for the Standing Committee on Faculty Rights, Academic Integrity Committee and the Graduate Council.

The University Assessment Committee was made a standing committee of the Senate. Its duties include periodically reviewing the assessment of student learning in the university's undergraduate and graduate programs, developing procedures for the annual reporting of assessment activities by departments and providing feedback and assistance to departments on their assessment activities.

The approved changes also provide for the Library Committee, Campus Space and Facilities Committee, Computer Planning and Goals Committee and Assessment Committee to submit yearly summaries of their activities to the Senate.

## Library to send loan notices via e-mail

Beginning March 1, NDSU Libraries will send all circulation and interlibrary loan notices via e-mail.

The Library will use the e-mail address listed by NDSU. Individuals with a different, preferred e-mail address, should notify the circulation department. Undeliverable e-mail will bounce back to the library for further processing and delivery. Those without e-mail will continue to receive paper notices.

According to Thomas Bremer, associate director of the Libraries, the new notification method will offer many advantages to NDSU faculty, students and staff. "Although all notices will be sent, users will most appreciate receiving overdue notices via their e-mail," he said. "The immediacy of e-mail avoids delays inherent in conventional mail. Furthermore, regardless of location, if individuals have access to their e-mail accounts, they will be assured of receiving their notices. Besides the added convenience to patrons, NDSU Libraries will also benefit from lowered processing costs."

For more information, call the circulation department at 1-8888.

## Finalists named in search for science and mathematics dean

The list of finalists for dean of the College of Science and Mathematics has been narrowed to four candidates. They are Frank Waxman, vice president for research, University of Oklahoma Health Sciences Center, Oklahoma City; James Hageman, professor of chemistry, New Mexico State University, Las Cruces; David Best, associate dean of arts and sciences, Northern Arizona University, Flagstaff; and Michael Gealt, director of the School of Environmental Science, Engineering and Policy, Drexel University, Philadelphia.

"We have four excellent candidates, a strong pool and we're excited about having the opportunity to have them here on campus," said Virginia Clark, dean of human development and education and search committee chair. "We would like to have the new person on board by July 1 or as shortly thereafter as possible."

Waxman, who will visit NDSU March 1-4, joined the University of Oklahoma Health Sciences Center 1986. He first served as an associate professor of microbiology and immunology before becoming associate vice president for research in 1993 and, later, vice president for research. Previous work experience includes vice president for research and development for Xytronyx, Inc., Chicago, and an assistant professor at Ohio State University, Columbus. He also was a senior staff fellow at the National Institutes of Health Rocky Mountain Laboratories, Hamilton, Mont. His vita lists 23 abstracts and papers and 32 publications.

He earned his bachelor's degree in bacteriology from the University of California, Los Angeles, and his master's degree and doctorate in microbiology and immunology at the University of Illinois Medical Center, Chicago. His postdoctoral training was at Hektoen Institute for Medical Research, Chicago, and Washington State University, Pullman.

Hageman, who will come to NDSU for interviews March 5-8, joined the faculty at New Mexico State University in 1971. Since becoming a full professor of chemistry in 1983, he also was head of the Department of Chemistry and Biochemistry and director of the graduate program in Molecular Biology. Previous work experience included being a lecturer in biochemistry at Yale University, New Haven, Conn., and a postdoctoral fellowship with the American Cancer Society.

He earned his intermediate bachelor's degree at the University of Bristol, Bristol, England; his bachelor's degree in chemistry at the University of Illinois, Urbana; and his doctorate in biochemistry at the University of California, Los Angeles. He was a postdoctoral fellow at Yale University. His vita lists 43 publications, seven current manuscripts and 36 presentations and published abstracts.

Best will visit campus March 8-11. A Vietnam-era Navy veteran, he joined the faculty of Northern Arizona University's Department of Geology in 1978, becoming a full professor in 1993. He was named associate dean of the school's College of Arts and Sciences in 1995. His vita lists 20 publications and 21 abstracts.

He earned his bachelor's degree in mathematics and his master's degree and doctorate in geology at the University of North Carolina, Chapel Hill.

Gealt will visit campus March 26-28. He joined Drexel University in 1978, holding faculty positions in biological sciences and bioscience and biotechnology. He also was director of the Environmental Studies Institute and director of the School of Environmental Science, Engineering and Policy. He previously was a postdoctoral trainee at the Institute for Cancer Research, Fox Chase Cancer Center, Philadelphia, and a research associate at Rutgers Medical School, College of Medicine and Dentistry of New Jersey, Piscataway.

He earned his bachelor's degree in biology at Temple University, Philadelphia, and his doctorate in microbiology at Rutgers University, New Brunswick, N.J. His vita includes 37 symposium and invited lectures, 43 publications and 45 technical reports.

The candidates' full vitas are available for review in EML 255 or Stevens 201.

## North Dakota Academy of Science calls for papers

The North Dakota Academy of Science announces a call for papers to be presented at the upcoming combined meeting of the North Dakota, Minnesota and South Dakota Academies of Science, scheduled April 28-29 at Moorhead State University. Papers will be accepted in two categories: 1) A. Roger Denison Student Research Paper (ND undergraduate or graduate student) and 2) Professional Research Paper.

The deadline for receipt of intent to present is March 1, and the deadline for receipt of communication is March 16.

The communication should appear on one side of a single page with one-inch margins on all sides. Fonts such as Times or Times Roman in 10 or 11 point size is preferred. Disk submission is required.

Send submissions to:  
Office of the Secretary-Treasurer  
North Dakota Academy of Science  
P.O. Box 7081  
Grand Forks, ND 58202

For more information, contact [ndas@medicine.edu](mailto:ndas@medicine.edu).

## People

### Kragerud to retire March 8



**Kragerud**

Jackie Kragerud will be retiring from NDSU March 8, and a reception in her honor is planned for the same day from 2-4:30 p.m. at the Northern Crop Science Laboratory.

Kragerud has worked for custodial services since 1986. She first worked on the roving crew, working in Burgum Hall, Weible Hall and Dolve Hall. In December 1990, under contract with NDSU, she started working at the USDA-ARS Northern Crop Science Laboratory. She received the Classified Staff Recognition Award in 1996.

"Jackie has always put so much pride into her work," said Alicia Meyers, a secretary in the USDA office. "She has been known to work late, come in early and work on weekends. Besides being a hard worker, she is kind, caring and a fun-loving person. Jackie will be truly missed."

Anyone interested in contributing to a gift may contact Meyers at 239-1310.

### State college faculty collaborate with NDSU researchers

Curtis Hill, Valley City State University, and Kevin Gyolai, North Dakota State College of Science, recently received summer research awards through the ND EPSCoR Faculty Laboratory And Research Experience (FLARE) program. The recipients will collaborate with NDSU faculty.

Hill is returning for a second summer of FLARE to work with Brian Slator, associate professor of computer science. Hill and Slator are developing a computerized learning environment and are testing it in their classrooms. Gyolai will work with Steven Meinhradt, associate professor of biochemistry. They will be investigating methods to characterize chlorotic and necrotic toxins involved in the wheat foliar disease tan spot.

The recipients were awarded one and a half month's summer salary. The host faculty collaborator may receive up to \$500 for supplies to support the research. FLARE was initiated in 1993. Since then, 22 faculty from the comprehensive and liberal arts schools and the state and tribal colleges have received awards. FLARE helps visiting faculty bring their research experiences back to the classrooms and provides them with renewed knowledge of their disciplines.

The purpose of ND EPSCoR, a North Dakota University System program, is to make North Dakota more competitive nationally in science, engineering, and mathematics research and development. Visit the ND EPSCoR Web page at [www.ndsu.nodak.edu/epscor](http://www.ndsu.nodak.edu/epscor) to learn more.

### Borgen receives award from Judo Club

Members of the Judo Club recently presented Vernon Borgen, facility engineer for the USDA lab, with a plaque and Japanese sword for his 20 years of advising the group.

According to Anne Markell, club president, Borgen has advised the group for two decades with no pay. "He really cares about the students. He sacrifices his free time to instruct and help us," she said. "He's a very busy guy, but he'll always put his students first."

Borgen received the award following the club's annual winter training festival, "Kangeiko." The festival is an opportunity for former club members, some of whom have started their own judo clubs, to come back to campus for a reunion with the current members of the group.

Borgen said he was surprised when he was presented with the gifts and that it was wonderful to be honored by his friends and peers. He also stated, "It's a beautiful sword and a nice plaque, but what matters the most are the friendships that I've gained over the years."

### NDSU speech team wins state tournament

NDSU students competed at the first joint state competition featuring colleges and universities from North Dakota and South Dakota. The tournament was held Feb. 12 at Mayville State University. Other participating schools included Northern State University, Valley City State University, South Dakota State University, Dickinson State University, the University of South Dakota, the University of Mary and the University of North Dakota. NDSU earned 343 points to take the championship, while the University of Mary, the second place finisher, received 175 points.

NDSU students Gina Deutsch and Terry Hinnenkamp tied for second place individual honors.

Every year, two college students from each state are awarded the opportunity to attend the prestigious Interstate Oratorical Contest. Stephanie Hamilton, an NDSU senior, was selected to be one of the participants, based on her second place finish in the oratory category at the state competition. She will travel to Tallahassee, Fla., in April for the contest.

NDSU winners, their events and placings are as follows:

- Stephanie Hamilton, oratory: second
- Stephanie Anderson, informative speaking: third; program of oral interpretation: third
- Sarah Jorgensen, oratory: third
- Gina Deutsch, interpretation of drama: first; prose: second
- Terry Hinnenkamp, prose: third
- Dave Johnson, after dinner speaking: third; impromptu speaking: third
- Blaine Edwards, interpretation of drama: second
- John Murphy, impromptu speaking: first; extemporaneous speaking: first
- Kristin Rupprecht, communication analysis: second
- Jenni Miller, communication analysis: third
- Jyoti Chowdhury, extemporaneous: second
- Ryan Legge, PowerPoint informative: first

Hinnenkamp and Deutsch also received second place in the dramatic duo category.

## Miller conducts F-M Symphony

Jo Ann Miller, associate professor of music, was the guest conductor of the Fargo-Moorhead Symphony Jan. 28-29. She conducted Mozart's Vespers K. 339 with the Fargo Moorhead Chamber Chorale, a group of 44 singers from the region.

Miller also was guest conductor for the North Dakota Junior High All-State Feb. 4-5 in Bismarck. The event was sponsored by the North Dakota American Choral Directors Association.

## Klenow, Peterson, Cummings published in journal

An article by Daniel J. Klenow, professor of sociology/anthropology; Larry R. Peterson, professor of history; and Katherine E. Cummings, former associate professor of education, was recently published in *The Journal of General Education*.

The article is titled "Survey Data and General Education Reform: A Case Study of Alumni Responses." The study was based on data gathered from more than 600 NDSU alumni nationwide. The research was funded by the NDSU Development Foundation and was used to assist in the revision of general education at NDSU.

## Events

### Tri-College seminar to explore climate on the prairie

The Tri-College Global Climate Change seminar scheduled for 6:30-9:30 p.m. Tuesday, Feb. 29, will focus on the patterns and causes of climate change on the North Dakota prairie for the last few thousand years. The seminar will be held in Van Es 101.

The speakers will be Sherilyn Fritz, department of geosciences, University of Nebraska; and Leon Osborne, department of atmospheric sciences and director of the Regional Weather Information Center, University of North Dakota.

Fritz's research is about the natural variability in the climate system beyond the 100 years of instrumental record. Osborne is an expert on solar cycles, and he will discuss sunspots as one of the possible causes of climate cyclicality. The talks will be followed by discussion accompanied with coffee and cookies.

More information about the seminar can be found at [www.ndsu.nodak.edu/instruct/ashworth/univ498/](http://www.ndsu.nodak.edu/instruct/ashworth/univ498/).

## Researchers invited to learn about NIH opportunities and activities

Dr. Donna J. Dean, senior advisor to the acting director of the National Institutes of Health, is scheduled to be at NDSU Friday, Feb. 25, to visit with interested faculty members and researchers about NIH grant opportunities and activities.

Dean will be in North Dakota with Sen. Byron Dorgan, who will be attending the Women's Health Conference in Fargo that day.

Anyone interested can join Dean any time between 10-11:30 a.m. in the Memorial Union University Chamber. Both NDSU and UND faculty are invited to attend and refreshments will be available. A short presentation is planned, followed by a question and answer period. Dean will discuss grant opportunities and NIH activities.

## GDC to hold demonstrations

The Group Decision Center, located on the upper level of the Memorial Union, has scheduled public demonstrations for 11 a.m.-1 p.m. Wednesday, Feb. 23, and 11:30 a.m.-1:30 p.m. Thursday, Feb. 24.

"The demonstrations will show some of the tools that may be valuable for the assessment and evaluation of individual courses or programs," said Don Galitz, center co-director, noting that mock programs will be running to illustrate the center's capabilities and participants are welcome anytime during the demonstrations. "We hope these demonstrations will encourage faculty and students to use the center for classes and organizations and to firm up dates for sessions as soon as possible."

The center is a network of 24 laptop computers linked by GroupSystems software. The technology enables users to enter their ideas anonymously and simultaneously, giving participants an equal voice in a criticism-free environment as they work on problem solving and consensus building.

## Workshop to address copyright law, fair use, software licensing issues

A workshop titled "Keeping Legal, Copyright and Software Licensing Issues in Education," sponsored by SENDIT and the North Dakota Department Public Instruction, is being offered from 9 a.m.-4 p.m. Friday March 10, in the Memorial Union Century Theater. It is open to anyone wishing to attend.

The presenter, Arlene Bielefield, is a faculty member in the Department of Library Science and Instructional Technology at Southern Connecticut State University. She has written several books about this topic including "Technology and Copyright Law," "A Guidebook for the Library, Research, and Teaching Professions," and "Interpreting and Negotiating Licensing Agreements: A Guidebook for the Library, Research, and Teaching Professions."

There is no fee but registration is required. You may register online at [www.sendit.nodak.edu/cgi-bin/eva/regpage.cgo](http://www.sendit.nodak.edu/cgi-bin/eva/regpage.cgo) or contact the SENDIT Help Desk at 1-1091.

## Women's Week events planned

Women's Week has been scheduled for the week of Feb. 28-March 4 at NDSU. All events are free and open to the public, unless otherwise noted. For more information about Women's Week, visit [www.ndsu.nodak.edu/equal\\_opportunity/brochure.html](http://www.ndsu.nodak.edu/equal_opportunity/brochure.html).

### Monday, Feb. 28

- Brown bag seminar  
"A History of Women in American Popular Music: The African and Anglo-American Traditions," noon, Memorial Union Prairie Rose Room

Katrina Zook, assistant professor of music at the University of Wyoming, will present a comprehensive history of notable women in 20th Century American popular music. Artists and musical styles from African-American and Anglo-American traditions will be featured and their contributions to American popular culture will be examined.

All brown bag seminars for the week are being sponsored by the YMCA of NDSU.

### Tuesday, Feb. 29

- Brown bag seminar  
"Is It Really a Joke? Sadie Hawkins and the Evolution of Comic Strip Messages," 12:30 p.m., Memorial Union Prairie Rose Room

Laura Oster-Aaland, director of project success, Deanna Sellnow, associate professor of communication, and Sandra Holbrook, equal opportunity director, will lead the seminar. They will discuss the Sadie Hawkins tradition that began in a 1939 comic strip and explore the influence of comic strip humor in our lives.

- Graduate student research panel  
"The Way We Wear: Images of Women Through Time," 2 p.m., Memorial Union University Chamber

Three graduate students from the Department of Communication will share their research dealing with women's issues. Bianca Grosche will present research from her thesis "A Rhetorical Analysis of Oprah Winfrey's 'Remembering Your Spirit.'" Tina Breidenbach will present findings from her paper "The Feminist Movement and Fashion as Defined by the Hemline: A Historical Analysis." The third panelist, Tracy Briggs, will talk about television news and "Looking the Part: Appearance Issues and U.S. Anchorwomen."

- Couples Panel  
"Living and Working Together," 7:30 p.m., Memorial Union Prairie Rose Room

The four couples on this panel are employed together. They will discuss how they manage to maintain a loving marriage and examine their roles and relationships in the workplace and at home.

### Wednesday, March 1

- Live music  
Vocalist "Ellis" will perform 11 a.m.-1 p.m. in the Alumni Lounge. Sponsored by Campus Attractions.

- Brown bag seminar  
"Looking Back at Women and Witchcraft: A Presentation and Discussion of 'The Crucible,'" noon, Memorial Union Prairie Rose Room

The NDSU Little Country Theatre's version of "The Crucible" brings new meaning to Arthur Miller's play, originally set in 1692. Lori Horvick, assistant professor of theater, and Kevin Brooks, assistant professor of English, will explore what implications the story may have for a contemporary audience.

- Voice recital  
Katrina Zook, a mezzo-soprano, is scheduled to present a vocal recital at 2 p.m. in Beckwith Recital Hall. The concert will feature classical music by female composers.
- Campus Attractions film  
"Tea with Mussolini," 7 p.m., Memorial Union Century Theater

Set in Tuscany from 1932-1945, the Franco Zeffirelli directed drama spans the reign of Italy's Fascist regime, the outbreak of World War II and the arrival of peace. The film tells the story of a young man taken under the wing of five eccentric, strong-willed women living in Florence.

### Thursday, March 2

- Brown bag seminar  
"Gods, Goddesses and the Oneness of Everything," 12:30 p.m., Memorial Union Prairie Rose Room

A guest panel will discuss the political feminist movement of the '60s and '70s and the women's movement of today. Panelists will discuss women-centered religious and spiritual experiences, past and present.

- Film discussion on "Tea with Mussolini"  
2 p.m., Memorial Union University Chamber

Robyne Williams, assistant professor of apparel, textiles and interior design, and Cindy Nichols, lecturer of English, will lead a discussion of the Campus Attraction's movie, "Tea with Mussolini."

- Women's Studies Symposium  
"Perceptions of the Built Environment: A Cultural Portrait," 3:30 p.m., Loftsgard 380

Shauna Corry, assistant professor of apparel, textiles and interior design will discuss how the places we live, work, shop and worship differ for various user groups.

### Friday, March 3

- Brown Bag seminar  
"Brink of Destruction of Dawn of a New Day? American Families in the 21st Century," noon, Memorial Union Prairie Rose Room

Dale Hawley, a family minister and adjunct faculty member in Family Social Science at the University of Minnesota, will discuss the social and demographic changes facing American families.

- Campus Attractions film  
"Tea With Mussolini," 7 p.m., Memorial Union Century Theater

- Little Country Theatre play  
"The Crucible," 8 p.m., Askanase Auditorium  
\$9 for adults; \$8 for seniors, NDSU faculty, staff and alumni; \$4 for NDSU students

### Saturday, March 4

- Music concert  
Third Annual Celebration of Women and Their Music, 7:30 p.m., Fargo Theatre, admission \$15

The non-profit event will feature more than a dozen performers. Part of the proceeds will be used to fund a scholarship for a high school senior pursuing a career in the arts. Contact Deborah Jenkins at 235-1059 for tickets.

- Little Country Theatre play "The Crucible," 8 p.m., Askanase Auditorium  
\$9 for adults; \$8 for seniors, NDSU faculty, staff and alumni; \$4 for NDSU students

## Women's Studies symposium to focus on the built environment



**Corry**

Shauna Corry, assistant professor and facility management program coordinator, is scheduled to present this semester's second Women's Studies symposium in coordination with NDSU's Women's Week. Her talk, "Perceptions of the Built Environment: A Cultural Portrait," is scheduled for 3:30 p.m. Thursday, March 2, in Loftsgard 380.

Corry will present her current research, which focuses on the people who design and manage the built environment for users who are disabled. She comments that our perceptions of the spaces we live, work, shop and worship differ greatly depending on whether we are presently able bodied, or include ourselves as members of one of several disabled user groups. What functions well for some people may not work at all for others. Corry will point to the differences and similarities among communities that should be taken into consideration in the architectural and interior designs to further more inclusive environments.

Corry earned her bachelor's degree in housing and interiors from Utah State University and her master's degree in interior design at Washington State University, where she is completing an interdisciplinary doctoral degree focusing on environment and behavior. Corry has been active in universal design research and professional design for the past 10 years. She completed training with the National Rehabilitation Association in 1991. She was one of 49 design educators selected to participate in the first Universal Design Education Project developed by Adaptive Environments and funded by the Department of Justice in 1994.

Women's Studies symposia are open to the public. For more information on the presentation, contact Corry at 1-8220 or [corry@plains.nodak.edu](mailto:corry@plains.nodak.edu). Anyone needing special assistance at the event should contact Kathleen Slobin, Director of Women's Studies, at 1-8939 prior to the symposium.

## Chorus and Brass Ensemble to perform at Olivet Lutheran Church

The NDSU University Chorus and Brass Ensemble is scheduled to present a concert at Olivet Lutheran Church, 1330 University Drive S., Fargo, at 8 p.m. Tuesday, Feb. 29. The concert, which also will include the NDSU Women's Chorus, will feature the music of Monteverdi, Bruckner and Vaughan Williams.

A free-will donation will be available at the door, with all proceeds going to the NDSU Department of Music.

## Gallery exhibit to feature history of fashion from A to Z

In conjunction with Women's Week, the Memorial Union Gallery is hosting "History's Closet: Everything from Aprons to Zippers," Feb. 28 through March 20.

The show reveals the broad range of dress and related objects that make up the Emily P. Reynolds Costume Collection. The collection is part of the Department of Apparel, Textiles and Interior Design and contains more than 4,000 artifacts dating from 1795 to present day. NDSU students Gwen Peterson, Angela Strasser, Wendy Johnson, Amanda Bren and Rachel Strom collaborated on the project with Ann Braaten, senior lecturer and curator of the costume collection.

A reception for the exhibit is planned for 4-6 p.m. Tuesday, Feb. 29, in the Gallery.

## Communication department seeks conference participants

The NDSU communication department is hosting the 15th Annual Red River Communication Conference, scheduled for April 24-26. The theme of the conference is "Sharing Perspectives: enVISIONing the Communication Spectrum."

This year's keynote speaker is Sonja Foss. Her address, "Evaluating Visual Images: Memphis Furniture, Valley Curtain and Graceland," is scheduled for April 24.

The communication department invites scholarly work, discussion panels and other scholarly and creative activities for presentation at the conference. Students are encouraged to submit their work for presentation. The submission deadline is March 1. Anyone interested should submit two copies of essays and/or panel proposals (include an attached title page with names, affiliations, mailing address, phone number and e-mail address of all panelists) to: Deanna Sellnow, NDSU Communication Department, P.O. Box 5075, Fargo, ND 58105-5075. Direct questions and inquiries about this year's conference to [dsellnow@badlands.nodak.edu](mailto:dsellnow@badlands.nodak.edu).

## Public schools to be topic of seminar

Ted May and Mike Kirkeby, assistant professors of education, are scheduled to present "What's Right and Wrong with American Public Schools? What is the Answer?" at noon Wednesday, March 1, in the Memorial Union Cul de Sac Lounge.

The seminar is part of the weekly "Horizons" series presented by the University Lutheran Center and United Campus Ministry. For more information call 235-0672 or 232-2587.

## Workshops planned on Problem-Based Learning

All NDSU faculty, administrators and staff involved in teaching are invited to attend workshops on Problem-Based Learning (PBL) Friday, March 3 in the Memorial Union Century Theater. George Watson, professor of physics and astronomy, University of Delaware, will present two workshops, one from 8-10 a.m., and the other from 1-3 p.m. The basic principles of PBL will be discussed at both sessions, but the two will cover different advanced materials and examples, so that one may profitably attend either session or both. An informal question and answer session also is planned from 10:30-11:30 a.m. in the Century Theater. Watson will post some of the workshop materials beforehand online at [www.udel.edu/inst/ndsu/](http://www.udel.edu/inst/ndsu/).

Problem-based learning is an instructional strategy that promotes active learning by setting students to work in groups on significant, open-ended problems. In addition to learning subject matter, students in these classes develop problem-solving skills, self-directed learning, the ability to find and use appropriate resources, critical thinking skills, facility with the computer, leadership skills, the ability to work on a team, communication skills and proactive thinking. PBL can be used as a framework for individual modules, courses, programs or whole curricula. The University of Delaware is one of the nation's leaders in implementing the learning style, using it in several disciplines, for small and large classes, from freshman to graduate level.

Watson is a founding co-leader of Delaware's Institute for Transforming Undergraduate Education (ITUE), which promotes reform of undergraduate education through faculty development and course design, incorporating active learning strategies and effective use of instructional technology. The institute's efforts to promote problem-based learning were recognized with the 1999 Theodore M. Hesburgh Certificate of Excellence for Faculty Development to Enhance Undergraduate Teaching and Learning.

Watson's research interests are in laser spectroscopy and condensed matter physics; his recent course offerings include electromagnetism and electronics for engineering majors and science and technology courses for non-science majors. In 1998 he received the Delaware Professor of the Year award from the Carnegie Foundation for the Advancement of Teaching.

This workshop is presented by the Next Generation Interactive Classroom (NGIC) Committee, part of a Bush grant project to help implement teaching methods that enhance students' learning, critical thinking, teamwork and problem-solving skills. For more information about NGIC or the workshops, contact Doug Kurtze at 1-7048 or [kurtze@plains.nodak.edu](mailto:kurtze@plains.nodak.edu); or Sudhir Mehta in 1-7871 or [mehta@badlands.nodak.edu](mailto:mehta@badlands.nodak.edu); or go to [www.ndsu.nodak.edu/instruct/mehta/bush/](http://www.ndsu.nodak.edu/instruct/mehta/bush/).

## Small business week activities planned

The NDSU Public Relations Student Society of America, in conjunction with Solobiz.com, is planning activities for Small Business Week, the week of Feb. 21.

An information booth will be open all day Wednesday, Feb. 23, in the Memorial Union. The booth will contain information on what it takes to start a small business and also will provide a place to view the newly launched Web site Solobiz.com. The Web site provides information to entrepreneurs to help them in the process of starting and maintaining a new business.

Wallace Eide of the Institute for Business and Industry Development is scheduled to speak at 11 a.m. Thursday, Feb. 24, in the Memorial Union Gallery. He will discuss the process involved when starting a small business.

For more information about the week's activities, contact Darren Ebensteiner at [Darren\\_Ebensteiner@ndsu.nodak.edu](mailto:Darren_Ebensteiner@ndsu.nodak.edu) or Rich Mattern at [rmattern@badlands.nodak.edu](mailto:rmattern@badlands.nodak.edu).

## Activities planned for engineers week

The College of Engineering and Architecture has planned several activities for National Engineers Week, Feb. 20-26. Area students from seventh grade to seniors in high school have the opportunity to visit the college or have NDSU engineering faculty and students visit their classrooms.

Highlights of the week include a tour of engineering labs at NDSU, a Web site with a competition for seventh and eighth graders and a toothpick bridge building contest, to be held at 5 p.m. Thursday, Feb. 24, in the Ballroom of the Comstock Memorial Union at Moorhead State University.

More information about National Engineers Week is available at [www.eweek.org](http://www.eweek.org).

## Governor's school set to begin June 4

Plans are underway for the 11th year of the North Dakota Governor's Schools in Business/Entrepreneurship, Laboratory Sciences and Mathematical Sciences at NDSU. This year's session is planned for June 4-July 15, and about 60 students are expected to participate.

High school sophomores and juniors apply for the program and are selected based on personal essays; recommendations from high school counselors, principals, and teachers; standardized test scores and high school transcripts. Applications are currently being screened, and participants will be informed of acceptance by March 1.

Students are placed in groups according to their interests in either mathematics, science or business curriculum, and all classes are taught by NDSU faculty. The students live in the NDSU residence halls and are expected to participate in all planned activities.

Lonnie Haas, senior lecturer of mathematics, is coordinating the program this year.

The program is funded by the department of public instruction, except the business/entrepreneurship division of the program, which is privately funded.



## Germans from Russia events scheduled in Arizona

The Germans from Russia Heritage Collection, NDSU Libraries and Prairie Public Broadcasting, are planning to premiere the new video documentary "Schmeckfest: Food Traditions of the Germans from Russia" in Arizona. The events are free and open to the public.

A showing of the documentary, with commentary by Michael M. Miller, is planned for 9:30 a.m. Saturday, March 4, at the Civic Center Library Theater, Scottsdale, Ariz. The event is sponsored by the Arizona Sun Chapter of the American Historical Society of Germans from Russia, Prairie Public Broadcasting Inc. and NDSU Libraries.

NDSU Libraries also is planning to display information tables from 10 a.m. to 3 p.m. Sunday, March 5, at the North Dakota Picnic, held in Pioneer Park, Mesa, Ariz.

The 60-minute documentary premieres locally at 8 p.m. Sunday, March 5, on Prairie Public Television, and at 7 p.m. Tuesday, March 7, on South Dakota Public Television.

For more information on the Arizona events contact Larry Haas, Sun City, Ariz., at (623) 583-2040 or [haasle@juno.com](mailto:haasle@juno.com) or Miller at 1-8416 or [mmmiller@badlands.nodak.edu](mailto:mmmiller@badlands.nodak.edu).

## German-Russian architecture featured at Library gallery

A "German-Russian Architecture" exhibit will be featured from March 12-June 18 in the Lower Level Gallery of the NDSU Library. The exhibit, which features photographs of street scenes, homes and farmsteads in several North Dakota communities, is free and open to the public.

When Germans from Russia immigrants came to North Dakota in the late 1880s, they brought with them a distinctive type of house form. The traditional "Bahtsen" house, made of adobe mud, was a single story, gable-roofed, rectangular, and compartmentalized into two or three rooms on a linear axis. A small porch called a "Vorheisel" was located on the south front of the house, while an exterior staircase, on a gable end, led to the loft. One or two chimneys pierced the roof from interior walls.

"The efficient simplicity of design and modesty of size reflects lack of importance for the house as a status symbol among the German-Russians," said Michael Miller, Germans from Russia bibliographer. "This organic extension on the treeless prairie required little imported material or outside labor to build. Utilitarian in both space and design, a few narrow windows and two-foot thick walls made this house a recognized energy efficient home in both winter and summer. The total house form, in terms of material, technology, and floor plan, illustrates design theory that the fewer options man has within his environment, the better use he makes of them."

The "German-Russian Architecture" exhibit was produced by the State Historical Society of North Dakota, Bismarck, and was funded in part with a grant from the North Dakota Humanities Council. For more information about the exhibit, contact Michael M. Miller at 1-8416 or [mmmiller@badlands.nodak.edu](mailto:mmmiller@badlands.nodak.edu).

## Shorts and Reminders

### Quantity Foods meals

The Quantity Foods class is hosting a pizza party from noon-12:30 p.m. Thursday, Feb. 24. The menu will feature French bread pizza, seven-variety salad, garlic breadsticks and rice krispie bars with icing.

At noon Tuesday, Feb. 29, an Asian menu is planned that will include wonton soup, pork fried rice, egg rolls with sweet and sour sauce and vanilla ice cream with cinnamon wonton skins.

The meals cost \$5.25 and will be served in the lower level of West Dining Center. Call 1-7023 for reservations.

### Positions available

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

Administrative secretary/#2411  
College of Business Administration  
\$17,000+/year  
Feb. 23

Secretary/#0457  
Engineering and Architecture Administration  
\$16,000+/year  
Feb. 23

Dispatcher/Operator/#4747  
(4 p.m.-midnight)  
Physical Plant-Telecommunications  
\$15,200 minimum/year  
Feb. 24

Administrative Assistant/#3864  
Vice President for Student Affairs  
\$20,000+/year  
Feb. 25

Administrative Secretary  
College of Pharmacy  
\$18,000+/year  
Feb. 28

Painter/#1233  
Physical Plant  
\$18,000 minimum/year  
Feb. 24

Custodian/#762  
(M-F; 3:30 p.m.-midnight, includes some monthly overtime)  
Physical Plant  
\$14,560 minimum/year  
March 2

Athletic Equipment Technician/#0209  
Athletics  
\$17,500+/year  
Open until filled

Agricultural Research Technician/#4949  
Plant Sciences  
\$22,500+/year  
March 7

Database/Web Application Developer  
ITS/Research Administration  
\$31,000 minimum/year  
Open until filled

Research Specialist  
Central Grasslands Research Center, Streeter, N.D.  
\$25,500/year  
March 1

Loss Prevention Specialist/#4230  
Physical Plant  
\$28,000 minimum/year  
March 1

Research Specialist  
Ag and Biosystems Engineering  
\$14,000/year (part-time; 20 hrs./wk; funding through May 2001; continuation contingent upon available funding)  
March 2

Reference Associate/#0532  
Library  
\$22,500+/year  
March 3

Food Technologist/#3315  
Northern Crops Institute  
\$26,000 minimum/year  
March 31

Position openings also are available through the NDSU Web site at [www.nodak.edu/human-resources/](http://www.nodak.edu/human-resources/).

#### **Director of agriculture communication sought**

NDSU Agriculture invites inquiries and application for the position of director of Agriculture Communication. Agriculture Communication, a component of NDSU Agriculture, has a staff of 30 employees and provides a broad range of services to faculty and staff in the College of Agriculture, College of Human Development and Education, North Dakota Agricultural Experiment Station, NDSU Extension Service and the university. Both on-campus and outstate staff are supported and serviced by Agriculture Communication.

The director of Agriculture Communication reports to the vice president, dean and director of agricultural affairs. The anticipated date of employment is May 1. It is a full-time position with office headquarters on the campus of NDSU.

This is an internal search within NDSU. All applicants for the position must be currently employed with NDSU, either on or off the main campus.

Salary commensurate with qualifications. Group health, disability and life insurance; TIAA-CREF retirement plan; Worker's Compensation; annual and sick leave according to university policy; and Federal Civil Service benefits for those currently covered under the federal system with coverage preceding Jan. 1, 1987.

For a complete list of required qualifications and application procedures, call 1-7171 or send inquiries to:

Duane Berglund, search committee chair  
c/o Melanie Ziegler  
311 Morrill Hall, P.O. Box 5437  
North Dakota State University  
Fargo, ND 58105-5437  
(701) 231-7171 Fax (701) 231-8378  
[mziegler@ndsuext.nodak.edu](mailto:mziegler@ndsuext.nodak.edu)

Applications must be postmarked by March 17.

## **Research Opportunities**

The Office of Research Administration in Old Main 201K announces the following funding opportunities and deadlines. For more information, call 1-8114; or refer to the given Web site or contact person. For information about other grants, check the Research Administration Web site at [www.ndsu.nodak.edu/ndsusizer/resadmin.html](http://www.ndsu.nodak.edu/ndsusizer/resadmin.html) and click on "Funding Opportunities."

#### **National Foundation for the Improvement of Education Innovation in Education [www.nfie.org/lead0.htm](http://www.nfie.org/lead0.htm) Deadline: March 1**

Up to 50 grants of \$1,000 each are available under the Leadership Program of the National Foundation for the Improvement of Education (NFIE). This program supports teachers who demonstrate innovative approaches to their jobs and a willingness to share knowledge with colleagues. The grants must be used for professional development activities, such as participating in a study group or attending an academic seminar. Eligibility is limited to: (1) faculty and staff members of public institutions of higher education; and (2) teachers and education-support personnel at public schools.

#### **Camille and Henry Dreyfus Foundation Postdoctoral Program in Environmental Chemistry [www.dreyfus.org](http://www.dreyfus.org) Deadline: March 1**

The program invites experts in environmental science to submit proposals for the training of Ph.D. chemists and chemical engineers in research activities related to chemistry and the environment. Each awardee may then appoint a postdoctoral scientist to spend up to two years in a program intended to stimulate the postdoctoral scientist to carry out further research in support of environmental understanding and values. In general, five institutions are selected annually to receive a total award of \$96,000 each. The program is open to all academic and other not-for-profit organizations that have well-established research efforts in environmental science or engineering. These research activities need not be located in traditional departments in the chemical sciences. Examples of these activities include but are not limited to fundamental science or engineering in topics related to the troposphere or stratosphere, aquatic or marine settings, soil or groundwater problems, environmental biochemistry, chemically benign synthesis and processing and pollution control.

#### **U.S. Department of Education IPEDS Web-Based Data Collection <http://ocfo.ed.gov/Coninfo/currrfp.htm> Deadline: March 2**

The U.S. Department of Education, for the National Center for Education Statistics (NCES), has up to three separate requirements for large, complex data collections. These data collections, part of the Integrated Postsecondary Education Data System (IPEDS), are designed to continue the series of cross-sectional data collections. The method for each data collection will be Web-based surveys. Each collection will culminate in a short descriptive report and documented data files. Data will be collected from approximately 9,800 post-secondary institutions.

**National Institutes of Health (NIH)****National Heart, Lung and Blood Institute (NHLBI)****Trial of Activity for Adolescent Girls: Field Centers**

<http://grants.nih.gov/grants/guide/rfa-files/RFA-HL-00-011.html>

**Deadline: March 6 (letter of intent), April 13 (application)**

The National Heart, Lung and Blood Institute (NHLBI) is inviting cooperative agreement applications for a multi-center randomized field trial that will test an intervention to prevent the decline in physical activity levels and cardiopulmonary fitness of girls in middle school. The initiative will test a school-community linked approach. Schools and existing community agencies will provide skills-building, supportive environments and opportunities for participation in physical activity during and outside the school day.

**U.S. Department of Agriculture****Distance Learning and Telemedicine**

[www.usda.gov/rus/dlt/dltregs.htm](http://www.usda.gov/rus/dlt/dltregs.htm)

**Deadline: March 17 (grants),**

**Sept. 30 (loans or combination loans/grants)**

The Rural Utilities Service (RUS) announces its Distance Learning and Telemedicine Program application window for funding during fiscal 2000. For the fiscal year, \$20 million in grants and \$200 million in loans will be made available for distance learning and telemedicine projects serving rural America. The funding will be provided in three categories: (1) \$13 million will be available for grants; (2) \$130 million will be available for loans; and (3) \$77 million will be available for combination grants and loans (\$7 million in grants paired with \$70 million in loans).

**U.S. Department of Education****Fund for the Improvement of Education (FIPSE)****European Community/United States Joint Consortia for Cooperation in Higher Education and Vocational Education**

[www.ed.gov/FIPSE](http://www.ed.gov/FIPSE)

[www.ed.gov/pubs/edpubs.html](http://www.ed.gov/pubs/edpubs.html)

**Deadline: March 17**

The objectives of this program are to (1) promote mutual understanding between the peoples of the European Community (EC) and the United States, including broader knowledge of their languages, cultures, and institutions; (2) improve the quality of human resource development in both the EC and the United States; (3) improve the quality of transatlantic student mobility; (4) encourage the exchange of expertise in new developments in higher education and vocational education and training; (5) form or enhance partnerships among higher education, vocational education, or training institutions, professional association, public authorities, businesses and other organizations as appropriate in the United States and the EC; (6) introduce an added-value dimension to transatlantic cooperation which complements bilateral cooperation between member states of the EC and the United States as well as other EC and United States programs and initiatives in higher education and vocational training.

**Calendar****February**

Through Feb. 25 NDSU Juried Student Art Exhibition, Reineke Visual Arts Gallery; reception 4-6 p.m. Feb. 8

23 Botany/Biology—Kelly Krabbenhoft, "Photographing Your Research: One Frame at a Time," 4 p.m., Stevens 231

24 Free preview night of the Little Country Theatre's "The Crucible," for NDSU staff; 7:30 p.m., Askanase Auditorium

24 Architecture and Landscape Architecture—Matteo Martignoni, U.S. Agency for International Development, "Sustainable Development and Appropriate Technology: Cycle Rickshaw Improvement Project," 12:30 p.m., Stevens Auditorium

25 History—Gerald Anderson, "British Civil Liberties and the Emergency Powers (Defence) Act of 1939," 3 p.m., Minard 407

25 Plant Sciences—Don Vincent, graduate seminar, "Use of Hydroponics in North Dakota," 3:30 p.m., Loftsgard Hall 380

25 Animal and Range Sciences—Dwain Meyer, "Recent Results of Alfalfa Research at NDSU," 3 p.m., Hultz 104

25-26 Little Country Theatre presents "The Crucible," 8 p.m., Askanase Auditorium

26 Psychology—Magda Chalikia, Moorhead State University, "Explorations of the Tritone Paradox," 3:30 p.m., Minard 209

27 Little Country Theatre presents "The Crucible," 2 p.m., Askanase Auditorium

28 Open forum by Richard Adelman, candidate for vice president for research, creative activities and technology transfer, 2:30-4 p.m., Memorial Union Century Theater

28-March 3 Women's Week

28-March 20 The Memorial Union Gallery presents "History's Closet: Everything from Aprons to Zippers (Emily P. Reynolds Costume Collection)"

29 University Chorus and Brass Ensemble concert, 8 p.m., Olivet Lutheran Church

29 Tri-College Seminar—Tri-College Global Climate Change Seminar, Sherilyn Fritz, department of geology, University of Nebraska, will discuss drought cycles in the northern plains and Leon Osborne, professor at the Regional Weather Information Center, UND, will discuss climate cyclicity, 6:30 - 9:30 p.m., Van Es 101

**March**

Through March 20, "History's Closet: Everything from Aprons to Zippers (Emily P. Reynolds Costume Collection)," Memorial Union Gallery

1-30 Mike Marth Exhibition: "Still Life Series," Reineke Visual Arts Gallery

1 Open forum by James Rhyne, candidate for vice president for research, creative activities and technology transfer, 2:30-4 p.m., Memorial Union Century Theater

1 Varsity Band and Jazz Combo concert, 8 p.m., Festival Concert Hall

2 Jazz Ensembles concert, 8 p.m., Festival Concert Hall

3 Problem-Based Learning workshop, 8-10 a.m. and 1-3 p.m., Memorial Union Century Theater

3-4 Little Country Theatre presents "The Crucible," 8 p.m., Askanase Auditorium

3 Psychology—John Wagner, "Hippocampal Function: Does Synaptic Plasticity Underlie Behavior?" 3:30 p.m., Minard 209

3 Women's and men's basketball vs. Northern Colorado, 6 p.m. and 8 p.m., Bison Sports Arena

4 Women's and men's basketball vs. Nebraska-Omaha, 6 p.m. and 8 p.m., Bison Sports Arena

6 Open forum by Philip Boudjouk, candidate for vice president for research, creative activities and technology transfer, 2:30-4 p.m., Memorial Union Century Theater

7 Tri-College Seminar—Tri-College Global Climate Change Seminar, Allan Ashworth and Donald Schwert will discuss the response of organisms to climate change, 6:30-9:30 p.m., Van Es 101

8 Open forum by C.A. Speer, candidate for vice president for research, creative activities and technology transfer, 2:30-4 p.m., Memorial Union Century Theater

8 Retirement reception for Jackie Kragerud, 2-4:30 p.m., Northern Crop Science Laboratory

9 Chemistry—Edgar Arriaga, University of Minnesota, "Miniaturizing Analytical Chemistry: Analysis of Cells and Organelles," 3:45 p.m., Dunbar 152

9 TIAA-CREF representative on campus, Old Main, Log Cabin; call 1-800-842-2009 to schedule an appointment

10 Psychology—Jana Iverson, University of Missouri, "Links between Gesture, Speech and Cognition: There's more to the hand than meets the eye," 3:30 p.m., Minard 209

10 TIAA-CREF representative on campus, Old Main, Log Cabin; call 1-800-842-2009 to schedule an appointment

13-17 Spring break, no classes

21 Festival Concert Series presents Common Ground, 7 p.m., Festival Concert Hall

21 Tri-College Seminar—Tri-College Global Climate Change Seminar, Steven Dahlberg, meteorologist, Concordia College; Will Gosnold, geology department, UND; and John Enz, NDSU, will discuss global warming, 6:30-9:30 p.m., Van Es 101

22 Classes resume

**University Relations  
North Dakota State University  
PO Box 5167  
Fargo, ND 58105**