

Ground broken for Animal Research Facility

Groundbreaking ceremonies were held May 12 for the new NDSU Animal Research Facility. The \$4.5 million project will include a new 24,000 square-foot, one-story addition and renovations to 23,000 square feet of existing research facilities.

"This is one of those milestone events in the history of our institution and our state," said President Joseph A. Chapman during the ceremony. "NDSU has a long and very strong history in agriculture. We have an opportunity here to make this a cornerstone as we move all our animal research facilities forward. This is a great moment for NDSU and it's wonderful for agriculture and all our life sciences."

U.S. Rep. Earl Pomeroy said, "Looking at North Dakota where we have historically been 60 percent crop and 40 percent livestock, we hear that what we need to do in the future is diversify and emphasize more livestock production. That means more than ever that producers are going to need breaking, state-of-the-art information on the animal sciences. This is a very happy day for North Dakota."



Assisting in the groundbreaking were, left to right, Ryan Bernstein, Colien Hefferan, Jerry Doan, Patricia Jensen, Rep. Earl Pomeroy, President Chapman, Don Hanson and H. Roald Lund.

Patricia Jensen, vice president, dean and director for agricultural affairs, said the facility will play an important role in the state's economy. "In a state that has three times as many cattle as people, we really need to pay attention to our livelihood and to four-footed friends," she said. "For every dollar we put into research, it moves through the system seven times over. The economic benefit will show itself again and again in the state of North Dakota."

The facility will feature cattle, sheep and swine housing and containment areas, and there will be holding pens, storage and feed rooms, loading facilities, a renovated large animal surgery suite and laboratories.

Discussions for the Animal Research Facility began in 1981, when NDSU and agriculture leaders first felt existing campus research facilities would not be sufficient to meet the future challenges of the industry. The project's funding eventually came from a variety of sources, including federal and state monies.

"Great visions and great ideas take time and persistence. I appreciate everybody who did not give up the ship. We kept going and were able to put it together," said Jerry Doan, chair of the State Board of Agricultural Research and Education. "Animal agriculture has tremendous potential for growth in this state. We've got to go to the next level at NDSU and really rise to occasion to take this institution to the next level of animal research. We've got to find the answers to help producers stay in business."

Don Hanson, chair of the building committee, served as the emcee for the ceremony. Other dignitaries in attendance included Colien Hefferan, deputy administrator of the USDA's Cooperative State Research, Education and Extension Service; several area legislators; livestock industry officials; and representatives of the board of directors of the Northern Crops Institute.

Construction is anticipated to begin shortly and the project is expected to be completed by the fall of 2001.

'97 flood documentary to premiere May 28

The Discovery Channel has changed the date it will air "The Flood of the Millennium," a one-hour documentary on the 1997 Red River flood.

The documentary, which features Donald P. Schwert, professor of geology, will premiere at 9 p.m. Sunday, May 28.

Next Issue

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Skills and Technology Training Center holds grand opening

The Skills and Technology Training Center, Fargo, held its grand opening May 8. The technologically state-of-the-art center, located in the former Kmart building on 19th Avenue North, is a 55,000 square foot facility designed to meet work force training needs in North Dakota and western Minnesota.



President Chapman, Chancellor Isaak, Gov. Schafer and Jerry Olson take part in ribbon-cutting ceremony at the Skills and Technology Training Center.

The grand opening was attended by business leaders, legislators and members of the higher education community. Among the speakers were Gov. Ed Schafer; Larry Isaak, chancellor of the North Dakota University

System; Jerry Olson, president of the North Dakota State College of Science; and Mike Gustafson, chair of the Southeast Workforce Training Board. NDSU President Joseph A. Chapman assisted in the ribbon-cutting ceremony.

Schafer called the center "a direct and significant investment in what I believe is our state's number one asset—our work force." He also commented on the impressive work ethic in the state. "It's exciting to see that North Dakotans outperform expectations of companies coming into the state. North Dakota workers can give businesses a competitive edge," he said.

The center began as an idea between Olson and former NDSU president Thomas Plough. Olson, who spoke at the ceremonies, praised the partnership between public and private entities that made the center a reality. He called the center "the tip of the iceberg for work force training in the state" and presented a framed print of an iceberg to the center that stated, "What we can see is only part of what is possible."

Olson also read a note from Plough, which said, "I am thrilled to receive notice of the grand opening. It was one of my most enthusiastic projects."

Special glass bricks were presented to Schafer, U.S. Rep. Earl Pomeroy and state Rep. John Dorso in recognition of their commitment to making the center a reality.

Olson also was recognized for his personal interest in work force training and his commitment to the center by having the facility's auditorium named after him. A sign reading "Dr. Jerry C. Olson Auditorium" was unveiled after the ribbon-cutting ceremony.

Grants enable NDSU faculty to work with city on community issues

Five community projects are being funded by the NDSU Bison Endowment Awards program, which was created to enhance university engagement with Fargo and the state of North Dakota. The projects include monitoring labor needs in the Fargo-Moorhead area, the efficiency of city services and curbside recycling. In each of the \$10,000 awards, NDSU faculty will work in collaboration with Fargo city departments on the projects.

"Nationally and on this campus, the theme of university engagement with the greater community is gaining renewed attention as a priority for higher education," said President Joseph A. Chapman. "These five projects are perfect examples of applying the expertise of university faculty to meet the needs of our community. We had more than 40 applications, which illustrates just how the theme of engagement connects with real life needs."

The five awards are:

Ozgun Economic Development Award
Richard Rathge, professor of agricultural economics and anthropology/sociology, will coordinate with local economic development groups, Job Services and the NDSU Career Center to conduct a study of the regional labor market and explore solutions to a projected shortage of workers.

Efficiency in Government Awards
(two awards)

Robert Wood, associate professor of political science; George Youngs, professor of sociology; and Thomas McDonald, professor of sociology, will conduct a study of the general quality of services provided by the City of Fargo. The study, requested by Fargo Mayor Bruce Furness, will include a telephone survey of 600 city residents.

Patty Corwin, senior lecturer of sociology, will work with civic leaders who have requested training for 15-20 emerging

leaders and supervisors in city departments.

Community Projects Awards

(two awards)

Kevin Thompson, associate professor of sociology, will conduct a study of NDSU students arrested for an alcohol-related offense from 1996-98. During this time, almost 1,300 students were arrested in Fargo and Cass County on an alcohol violation or misdemeanor. The study will provide a statistical profile of students who experienced an alcohol-related arrest and contrast those with the general student population. The information also will be shared with the university's Division of Student Affairs.

Bruce Grubb, Fargo Director of Public Utilities, was awarded a grant to work with Daniel Klenow, professor of sociology, to determine community interest in a proposed curb-side recycling program.

Research and Technology Park groundbreaking planned

The campus is invited to the groundbreaking ceremony for the new NDSU Research and Technology Park at 1:30 p.m. Friday, May 19, at the corner of 18th Street North and 17th Avenue North.

"We are not just breaking physical ground, we are breaking ground on a whole new enterprise for NDSU to fulfill its mission for this century in economic development," said Philip Boudjouk, vice president for research, creative activities and technology transfer.

Located on 40 acres west of the Fargodome, the park is a place where NDSU researchers and private industry will combine their talents to develop new technologies, methods and systems.

The park's cornerstone tenant is Phoenix International, Fargo, a John Deere company. The manufacturer of electronic controls and sensors will occupy the park's first structure, which provides laboratory and office space for a projected 320 employees.

The park's second building will be a facility designed for NDSU researchers which includes "wet lab" facilities and Net-wired, technology-related areas. Also planned is a 5,000 square foot business incubator, where emerging companies will lease space in the facility as faculty and students work with them to prepare new products or methods.

Graduate certificate programs to be offered

Preparations are underway for NDSU to offer graduate certificate programs during the 2000-01 academic year, most likely during spring semester. Each certificate program will have a minimum of 12 graduate credits.

Graduate certificates are programs of shorter duration than a degree program. They include courses that are part of the graduate curriculum and are focused in a field of specialization.

William Slanger, interim dean of the Graduate School, sees the programs as a response to the needs of businesses and individuals. "The information economy has created a pressing need for employees who are up-to-date on the latest material. A certificate program is for employees who have a desire or need to stay current, advance in their employment or seek different employment," he said. "Graduate certificate programs are a response to job mobility, the rapid generation of knowledge and technology and lifelong learning. Also, many graduate students will complete a graduate certificate program at the same time as their degree."

According to Slanger, there has been a "sweeping revival" of interest in certificates across the country. He said the majority of the members of the Council of Graduate Schools offer or are planning to offer certificates. Slanger notes that the State Board of Higher Education has been working on certificate policy for more than a year.

Slanger predicts that NDSU could offer 25 or more graduate certificate programs in the future, all of which would need prior approval from the state board.

Currently, the College of Business Administration is interested in graduate and undergraduate certificate programs in areas like e-commerce and financial planning and undergraduate certificate programs in entrepreneurship and forensic accounting. "The programs would be four or five courses that give a student competency in a unique area," said Jay Leitch, dean of business administration. "Non-business majors may want a certificate program to develop competency in a certain area, or people who already have a degree may be interested in a small number of courses to gain additional expertise."

Another proposed graduate certificate program is in plant protection, which would be a multi-disciplinary study involving entomology, plant sciences and plant pathology. "The program would serve agriculture professionals who find themselves in jobs beyond their bachelor's degree," said Gary Brewer, associate professor and chair of entomology. "This will be training in areas that are new or where information has become obsolescent."

Also, at this time the Department of Sociology/Anthropology is proposing an undergraduate minor and undergraduate certificate in emergency management, in conjunction with the Federal Emergency Management Agency. "Currently there is an emergency management person in each county of the state and most major industries need emergency management plans," said Gary Goreham, associate professor and chair of sociology/anthropology. "The certificate program would be aimed at both students and people already in professional settings."

To successfully complete the graduate certificate programs, students must have a cumulative grade point average of 3.0 or better in the courses. Transcripts will list "Graduate Certificate Program" and the name of the completed program. A student must complete the necessary courses within a three-year time frame.

Gavel passed at University Senate

Outgoing University Senate Presiding Officer Mark McCourt, professor of psychology, passed the gavel to Sarah Jacobson, associate professor of business administration, during the May 8 meeting of the University Senate. Jacobson will lead the group during the 2000-01 academic year.

Kathleen Slobin, associate professor of sociology and director of Women's Studies, was elected presiding officer-elect. It was announced that Ray Miltenberger, professor of psychology, will serve a five-year term on the Standing Committee on Faculty Rights and Ann Burnett, associate professor of communication, will serve a three-year term on the Council of College Faculties.

Also at the meeting, second reading was approved by unanimous consent to revise the University Senate bylaws. Among the changes are the addition of a faculty caucus and the elimination of the Scheduling and Registration Committee and Student Affairs Committee as standing committees of the University Senate. Another change is to have Senate Executive Committee members act as liaisons with standing committees. Also, standing committees will now be required to provide a yearly summary of their activities to the Senate.

AT&T Wireless president to speak at technology conference

U.S. Sen. Byron Dorgan recently announced John Zeglis, chairman and chief executive officer of AT&T Wireless Group, will be the scheduled keynote speaker at the second annual "Telecommunications Technology in North Dakota" conference May 31 at NDSU.

Zeglis' company made history recently when it broke Wall Street records with the largest public stock initial price offering in history—\$10.6 billion. He is one of Forbes.com's "Leaders of Tomorrow," a list of trailblazers in the technology industry.

Dorgan said, "John Zeglis is not only a leader, he is a history maker in this new industry. John will offer North Dakotans and others a unique insider's view of the wireless industry and the promise the technology offers rural America."

The regional conference is scheduled from 9 a.m.-5 p.m. Wednesday, May 31, at NDSU. It is free and open to the public. It will include workshops on Internet opportunities in e-commerce, education, health care and other areas. A special workshop is planned for senior citizens about how to use the Internet to keep in touch with family and find information on travel, health and other issues.

Conference organizers are Dorgan, the Information Technology Council of North Dakota, NDSU, Red River Trade Council and the University of North Dakota.

To register for the conference, go to www.tnd.org or call 1-7015.

Libraries announce summer hours

The NDSU Libraries began its regular summer session schedule Tuesday, May 16. Main Library hours are:

Monday-Thursday	7:30 a.m.-7 p.m.
Friday	7:30 a.m.-5 p.m.
Saturday	closed
Sunday	5 p.m.-9 p.m.

Branch Libraries hours (architecture, chemistry and pharmacy) are:

Monday-Friday	7:30 a.m. - 4:00 p.m.
Saturday-Sunday	closed

All NDSU Libraries will be closed Saturday-Monday, May 27-29, for Memorial Day weekend. A current listing of hours can be obtained by using the HRS command on the online catalog, by calling 1-9456 or on the Web at www.lib.ndsu.nodak.edu.

Library to get carpeting, disruptions expected

The Main Library will have new carpet installed on its first floor around the weeks of May 22-June 2. Because this work will disrupt a number of key areas in the Library (Reference, Circulation, and Interlibrary Loan), all students, faculty and staff are urged to plan their research time accordingly. For more information or updates on the projected timeline, call the Reference Desk at 1-8878.

Pharmacy program receives grant from Dakota Medical Foundation

The College of Pharmacy has received a \$244,300 grant from Dakota Medical Foundation in Fargo. The three-year grant will provide support for the college's Native American Pharmacy Program.

The purpose of the Native American Pharmacy Program (NAPP) is to recruit and facilitate the entry of American Indians into the pharmacy program. Dakota Medical Foundation funds will be used to address four objectives, student recruitment, preliminary education, facilitation of entry and retention, through the administration of an academic year program for 15 to 20 students and a six-week summer academic enrichment program for five to six American Indian college freshmen and/or sophomores.

The program began in 1987 with funds provided by the Health Careers Opportunity Program of the federal government to address the severe shortage of American Indian pharmacists in this country. The shortage has had a negative impact on the health and welfare of under-served American Indians, particularly those in reservation communities.

Since the initiation of the program, seven American Indian students have received pharmacy degrees, five of whom graduated in the last four years. Of the seven graduates, four are working in reservation communities for the Indian Health Service. Currently, there are 11 NAPP students in the professional program, three of whom will graduate this spring. An additional eight students are taking pre-pharmacy courses.

Ed Magarian, associate professor of pharmacy practice, is the program director, and Eileen Grundstrom is the program coordinator.

The Dakota Medical Foundation funds innovative projects that improve the health of the people of the Red River Valley in North Dakota and Minnesota.

Valleyfair discount tickets available

Discounted "Good Any Day" tickets for Valleyfair are now available for faculty and staff in the Office of Human Resources, Room 205 Old Main. The amusement park, located in Shakopee, Minn., opened May 6 and its season will continue through September.

Admission includes unlimited use of all rides, shows, attractions and the Whitewater Country Waterpark. The waterpark will be open May 27-Aug. 27, weather permitting. Present your faculty/staff ID card at time of purchase.

NDSU ticket prices are:

- Adults—\$21.90 (a \$6.05 savings off the regular admission of \$27.95)
- 60 years and older—\$7.95 (no discount from regular admission) - *these tickets are not available on campus*
- Children, 4 years up to 48" tall—\$7.95 (no discount from regular admission)
- Children, 3 years and under—free

For more information, contact the Office of Human Resources, 1-8961.

Wageman studies professor burnout in N.D.

Justin Wageman, assistant professor of education, recently conducted a study to identify burnout levels of full-time faculty holding rank of assistant, associate or full professor in three categories of institutions in North Dakota.

Faculty from eight public colleges and universities were sent questionnaires about stress levels and burnout. Of the 350 polls mailed, 336 were returned and 306 were complete and usable for the study.

Specifically, the study sought to find what levels of burnout existed among full-time, post-secondary faculty; if there were differences in burnout levels by rank; differences in burnout levels by category of institution; and differences in burnout levels by certain demographic variables.

As a group, the North Dakota sample was found to have a significantly higher burnout level on all three of the sub-scales—emotional exhaustion, depersonalization and personal accomplishment—than the national average. Associate professors had a significantly higher depersonalization score than full and assistant professors. No statistically significant differences in burnout levels were found by category of institution.

Significant differences were apparent in burnout levels by age, highest degree and perceived pressure to engage in publishing or creative production. The faculty age group 40-49 had a significantly higher emotional exhaustion and depersonalization scores than age group over 50. Faculty with doctoral degrees were significantly lower in their personal accomplishment scores than those with master's degrees; and faculty who indicated they felt pressure to be involved in scholarly activity had a significantly higher score on emotional exhaustion than those who reported no pressure.

Based on the data, Wageman was able to partially construct a burnout profile. "A typical burned-out North Dakota faculty member is one who is a full-time associate professor, between the ages of 40 and 49, holds a doctoral degree and feels pressure to engage in scholarly activity."

He said he was not surprised by his findings. "Limited resources, low salaries and a heavy workload are characteristic of positions in North Dakota higher education. Budget cuts, small salary level gaps between ranks and calls for efficiency and accountability intensify and aggravate already stressful work."

Wageman's recommendations include making faculty aware of key stressors and having them practice ways to reduce and prevent burnout. He believes North Dakota administrators should be sensitive to the behaviors and effects that result from stress and burnout, and by using individual departmental assessments of faculty, administration could develop programs to help those currently experiencing burnout. He also believes the assessments could help prevent burnout from occurring. The information could be used to change organizational structures and policies to create a more healthy working environment.

NDSU launches Web-based clearinghouse for businesses

Small business owners can now get immediate "9-1-1" help on the Internet. The College of Business Administration has launched a Web site to provide information and resources for entrepreneurs and small businesses in the region. The site, "Small Biz 911," is located at www.ndsu.nodak.edu/ndsu/small_business911/.

Charles Harter, associate professor of accounting, developed Small Biz 911. "There are a lot of Web sites out there that people never look at because they can't find them or there's just too much that there's information overload," he said. "This site will reduce the information overload problem by putting sources of assistance all in one place rather than forcing people to search all over the Internet. North Dakota is predominantly small business, so this is exactly the type of thing that is needed in this location, more so than most places."

Wally Eide, director of the Institute for Business and Industry Development at NDSU, helped develop aspects of the site. "We have been working with entrepreneurs across North Dakota for the past 10 years, and one of the things we've always found is that they're looking for process," Eide said. "They have an idea, but have questions about what to do next and where to go for information. The Web is a great way to localize that information and at the same time educate, which is what NDSU is about as a university."

Its name aside, Small Biz 911 is not only for crisis situations. The site can guide new entrepreneurs to organizations and agencies that help develop an idea into a business, or established businesses to resources that provide insights for improving processes and developing additional products and services.

The site boasts a wealth of information on needs assessment, financial assistance, federal and state contracts, technology assistance and training. Entrepreneurs can click on the category of help they need and see a list of all the organizations that provide it. By clicking on the organization's name, they will see more information about its services, fees and who to contact.

Organizations linked to Small Biz 911 include the Lake Agassiz Regional Development Corp., One Stop Capital, the Fargo-Cass County Economic Development Corp., the Center for Innovation, the Skills and Technology Training Center, the Small Business Institute and others.

The site also provides access to on-line forms. For example, a startup business that needs a tax identification number will be able to access the North Dakota Tax Department's Web site directly from Small Biz 911 to obtain the necessary form.

A significant resource on the site is "Business Strategy, Step by Step," developed by Eide with the beginning entrepreneur or inventor in mind. The link lays out the product development process from idea evaluation through startup in both table and graphical forms. From there, entrepreneurs can see how far their ideas or companies have evolved, then click on that point to find out what kind of assistance they need to proceed.

Harter will add resources as he becomes aware of them, and Small Biz 911 includes an invitation to organizations to contact him. For more information, visit the site or contact Harter at charter@plains.nodak.edu or 1-8970.

People

Ruley to be inducted into N.D. Sports Hall of Fame



Ruley

Amy Ruley, head women's basketball coach, will be inducted into the North Dakota Sports Hall of Fame at a ceremony June 10 at the Jamestown Civic Center. A social and silent auction are scheduled to begin at 5 p.m., with a banquet and program at 7 p.m.

In her 20 years at NDSU, Ruley has become the winningest coach in the program's history. She has led her teams to five NCAA Division II national titles and playoff appearances for 14 consecutive seasons. She has won the Women's Basketball Coaches Association District VII Coach of the Year award nine times, including this year. She also picked up her 500th career win this season; her record currently stands at 510-125.

Other athletes being inducted are Jack Brown, a referee and recreation director for the City of Jamestown; Mike Morley, a golfer from Minot; and Steve Myhra, a graduate of the University of North Dakota and former member of the Baltimore Colts football team.

The ceremony is held every two years. Tickets are \$20 per person or \$35 per couple and are available from Sharon Morgan at 1-7739.

Neas to attend national technology advisory workshop

Bonnie Neas, director of Information Technology Services, has been selected to participate in an invitation-only workshop to develop recommendations to the President's Information Technology Advisory Committee (PITAC) on the expansion of advanced networking services beyond the early adopter institutions. The event is planned for June 4-6 in Arlington, Va.

Neas' letter of invitation read, "You have been nominated for participation in this workshop because North Dakota State University is exemplary of the types of institutions we think can benefit from advanced networking and therefore, we believe you can help us as we formulate a recommendation." Representatives from only 30 institutions in the country were invited to the meeting.

Although most research universities in the United States currently participate in projects such as Internet 2 and the Next Generation Internet, very few doctoral, masters and baccalaureate institutions use these experimental networks. The committee believes that as the services on these networks expand, they could be beneficial to scholars throughout higher education.

EDUCAUSE is arranging the workshop in cooperation with the PITAC and the National Coordination Office for Computing, Information and Communications.

Faculty recognized in College of Arts, Humanities and Social Sciences

The College of Arts, Humanities and Social Sciences named recipients of its outstanding teacher, service and research/creative activity awards for the 1999-2000 academic year at its awards luncheon May 9.

Douglas Blanks Hindman, associate professor of communication and member of the faculty since 1994, received the Outstanding Teacher Award.

He was praised for his efforts to revise and improve his courses, incorporate new techniques in his teaching and expose students to new technologies in and out of the classroom. He uses such things as on-campus computer clusters, class Web pages and other on-line resources and videotaped demonstrations.

He is responsible for setting up, administering and maintaining the broadcast teaching laboratories. He also has been instrumental in advising the student founders of the Web Radio Group, a new campus organization that allows students to gain experience with Internet broadcasting.

Candace Decker, one of Hindman's graduate advisees, said, "Doug exhibits outstanding teaching at the undergraduate and graduate level by evaluating and changing the courses he teaches to allow students to explore innovative ideas and gain 'real world' skills to handle situations brought about by the impact of information technologies."

H. Elaine Lindgren, professor of sociology, received the Outstanding Service Award.

"Dr. Lindgren's record of service at NDSU is exemplary as she has worked to achieve the ideals of a person-centered land grant university," wrote Kathleen Slobin, associate professor of sociology. "Not only in the college and at the university, but in communities throughout the region, Dr. Lindgren's presence has fostered public participation and involvement in the open exchange of experience, information and ideas."

Lindgren joined the NDSU faculty in 1970 and has served on numerous university, college and departmental committees. Most recently, she has served on the Standing Committee on Faculty Rights, the Ad Hoc Committee on University Governance, the Academic Integrity Committee, and the American Association for University Professors Executive Committee. As chair of the Women's Studies Committee from 1978 to 1990, and later as a committee member, she helped develop the interdisciplinary Women's Studies minor at NDSU.

She helped found the Fargo Women's Health Organization in the 1980s, has worked continuously with Parents and Friends of Lesbians and Gays to encourage tolerance and inclusiveness in the community, and has served on advisory boards for a number of community organizations. She has given lectures on women homesteaders in North Dakota based on her book, "Land In Her Own Name," now in its third printing.

Richard W. Rathge, professor of sociology and agricultural economics, received the Outstanding Research/Creative Activity Award. Rathge, a member of NDSU's faculty since 1981, is also director of the North Dakota State Census Data Center and state coordinator of the Federal-State Cooperative

Program for Local Population Estimates and Federal-State Cooperative Program for Population Projections.

Rathge has published many articles in refereed journals, book chapters, technical reports and other publications. His sponsored research activity at NDSU has totaled more than \$3 million and encompassed more than 45 different research projects in rural development, demographics, marketing and survey analysis, needs assessment and teaching innovations.

In the past year Rathge has received \$43,000 in new research grants, \$91,050 in contracts and \$100,400 in continuing grants, and he has written or co-written seven technical reports pertaining to regional labor force issues, community health needs and various educational institution topics. His article, "What the Future Holds for Dwindling Rural Counties: A Perspective from Two North Dakota Counties," is under review with the *Great Plains Sociologist*.

In nominating Rathge, Kevin Thompson, associate professor of sociology, wrote, "His personal research record is stellar. In addition, he has played a very significant role in the research careers of his colleagues and of his graduate students in our college. Indeed, Dr. Rathge has created a research infrastructure of value to the entire state."

HD&E presents year-end awards

The College of Human Development and Education held its annual faculty/staff awards breakfast May 10. The Department of Apparel, Textiles and Interior Design received the Robert and Patty Hendrickson Faculty Development Award.

Other awards presented and their recipients were:

- Exceptional contributions to scholarly activity
Brad Strand, chair and professor of health, physical education and recreation
- Exceptional contributions to teaching
Mary Hadley, associate professor of food and nutrition
- Exceptional contributions to service/outreach
Robert Nielsen, associate professor of education
- Exceptional support for instructional/service activity
Gloria Flanders, administrative secretary; dean's office
- Exceptional support for research/project/creative activity
Delcy Rodriguez, food technician; food and nutrition
- Exceptional contributions toward a positive work environment
Allison Magnus, administrative secretary; health, physical education and recreation
- Best team effort
Julie Garden-Robinson, extension specialist; Edna Holm, professor of food and nutrition; and Charlene Wolf-Hall, assistant professor of food and nutrition.
- Human Development and Education Commendation Award
Mary Hadley, associate professor of food and nutrition

Engineering and architecture names teacher, researcher of the year

The College of Engineering and Architecture gave faculty awards at its honors banquet April 12. The Teacher of the Year award went to Jacob Glower, associate professor of electrical and computer engineering, and the Researcher of the Year award went to Khan Iftekharuddin, assistant professor of computer science. Each received \$1,000.

Orlando Baiocchi, chair and professor of electrical and computer engineering, said Glower is "one of the most dedicated and productive faculty members that I've ever met. He is very well liked by the students and never refuses additional tasks beyond his normal obligations."

Baiocchi was equally impressed with Iftekharuddin. "He came here last year and has strongly impressed me because he is a person who never misses an opportunity to apply for a grant or to explore a new possibility," he said. "Despite being very young, he already has a reputation both nationally and internationally."

The Graduate Researcher of the Year award of \$500 went to Jingpeng Tang, a graduate researcher in civil engineering. In his letter of recommendation, Dinesh R. Katti, associate professor of civil engineering, wrote: "Mr. Tang has three amazing qualities: focus, extraordinary attention to detail and motivation to tackle the most difficult problems. His perfect grade point average of 4.0 is no surprise to faculty members with whom he has taken courses."

Other nominees for the teaching award were Donald Andersen, associate professor of civil engineering; Thomas Bon, senior lecturer of agricultural and biosystems engineering; Dennis Colliton, chair and associate professor of landscape architecture; Fong-Yuen Ding, associate professor of industrial and manufacturing engineering; Sherman Goplen, associate professor of mechanical engineering; Alan Kallmeyer, assistant professor of mechanical engineering; and Vinod Lall, assistant professor of industrial and manufacturing engineering.

Other nominees for the graduate researcher award were Nabil Suleiman, civil engineering, and Mohammed Saidul Borhan, agricultural and biosystems engineering.

Faculty must be nominated for the teacher and researcher awards by other faculty members or student groups. Graduate researchers are nominated by faculty.

Fike to work at Bemidji summer theatre

Raymond Fike, assistant professor of theatre arts, accepted a summer position as the Technical Director and Designer for the Paul Bunyan Playhouse, Bemidji, Minn.

The Paul Bunyan Playhouse is in its 50th consecutive season of professional summer stock theatre. It is recognized as the longest continually running summer repertory company in the nation and is housed in the historic Chief Theatre in downtown Bemidji.

Productions planned for the summer are "Steel Magnolias," June 14-25; "The Elephant Man," June 28-July 2; "Charlotte's Web," July 5-16; "The Mousetrap," July 19-30; "The Mystery of Irma Vep," Aug. 2-6; and "Cabaret," Aug. 9-25.

O'Regan publishes women's policies book

"Gender Matters: Female Policymakers' Influence in Industrialized Nations" a book written by Valerie O'Regan, assistant professor of political science, was recently released by Praeger Publishers of the Greenwood publishing group.

In the book, O'Regan examines the relationship between female policymakers and policy outputs. Her primary concern is whether female policymakers are associated with the advancement of "women's issues" in the policy realm. Although this question is important in the study of representation theory, there has been little research on the topic and it has tended to provide limited, often contradictory results.

O'Regan's research design and analysis utilizes time-series, cross-sectional procedures to examine the effects of the independent variables on the dependent variables over time, across countries. Data from 22 countries during the period of 1960-1994 were analyzed in two separate segments. The first analysis involved three general policy measures that address two types of women's issue policies—employment and social. The second analysis involved two measures for policy comprehensiveness employing equal wage legislation.

The findings for the first analysis are positive regarding the relationship between the presence of female policymakers and the presence of women's issue policies. The findings for the second analysis highlight the difficulties of developing valid measures of policy substance and further such development in this growing field.

For more information about the book, go to <http://info.greenwood.com/books/0275968/0275968847.html>.

Even receives NCAA postgraduate scholarship

Women's basketball forward Jayne Even was named one of 32 recipients of the NCAA's \$5,000 postgraduate scholarships. The scholarships were awarded to 16 women's and 16 men's basketball players. Of the 32 scholarships, 12 were reserved for Division I student-athletes, 12 for student-athletes in Divisions II and III and the remaining eight were awarded at-large.

Even, a senior from Sioux Falls, S.D., is the fifth NDSU women's basketball to be awarded a NCAA postgraduate scholarship, joining Theresa Lang (1999), Rhonda Birch (1997), Kristi Kremer (1989) and Laura Jacobson (1982). She maintains a 3.62 grade point average majoring in mass communication.

Even was the Rawlings/WBCA Division II Player of the Year and the Women's DII Bulletin Player of the Year. She has also earned Kodak Division II All-America 1st team, Daktronics, Inc., Division II All-America 1st team, Women's DII Bulletin All-America 1st team and GTE/CoSIDA College Division Academic All-America 2nd team honors. Even led the Bison to an NCAA Division II runner-up finish, North Central Conference championship and 28-4 record.

Student leadership reception held

The 4th annual Student Leadership Recognition Reception was held April 26. The event, sponsored by the Memorial Union Student Activities Office, acknowledged the achievements of individuals and student organizations. NDSU recognizes nearly 200 student organizations in a variety of academic disciplines and special interests.

The Student Government Commission for Student Organizations awarded the following:

- Outstanding Social Program: Blue Key Honor Fraternity for the Bison Brevities talent show
- Outstanding Educational Program: Little Country Theater for the play "Oleanna," which dealt with issues of sexual harassment
- Outstanding Cultural Program: International Student Association for International Night
- Outstanding Community Service Program: Kappa Delta Sorority for the Shamrock Project, a week of community service and fundraising events that benefit children's programs
- Outstanding Overall Program: Sigma Alpha Professional Agricultural Sorority for The Big Event, a community service program that paired NDSU students with individuals in the community for a day of service
- Outstanding Student Leader: Brett Goodman, sophomore in agricultural economics from Milton, N.D.. He is president of the Inter-Fraternity Council, the governing body of the 10 NDSU fraternities. He is vice president of alumni relations for Alpha Gamma Rho fraternity and is involved in the Agribusiness Club and Bison Ambassadors.

The Volunteer Network, a service learning program, recognized Erik Hatch as Outstanding Individual Volunteer for his more than 175 hours of service in the past year. The sophomore majoring in speech communication has volunteered with the Salvation Army, United Way Day of Caring, University Lutheran Center, McKinley Elementary School, YWCA and First Lutheran Church, among others.

Volunteer Network also recognized Alpha Tau Omega Fraternity with the Outstanding Organization Volunteer Service Award. Its 16 members volunteered more than 1,100 hours to a variety of community agencies and organizations.

Mortar Board senior honor society sponsored the outstanding academic and organization adviser awards and recognized the following faculty and staff:

- Outstanding Academic Adviser: Mort Sarabakhsh, associate professor of food and nutrition
 - Overall Outstanding Adviser: Karen Arnell, Psi Chi and Psychology Club
- Five outstanding student organization advisers:
- Shari Ellertson, Panhellenic Council
 - Robert Harrold, Blue Key Honor Fraternity
 - Linda Manikowske, Fashion Apparel Business Organization
 - Ted May, Student North Dakota Education Association
 - Patti Sebesta, Ag Ambassadors

Events

NDSU to host regional chemical meeting

NDSU's Department of Chemistry is the lead organizer of the 32nd Great Lakes Regional Meeting of the American Chemical Society (ACS) June 4-6 at the Holiday Inn Conference Center, Fargo. An estimated 400 attendees from around the country are expected to attend. More than 250 presentations are scheduled.

Assisting in organizing the meeting are representatives from the NDSU Department of Polymers and Coatings, and chemistry departments at the University of North Dakota, Moorhead State University, Concordia College and Mayville State University.

According to Greg McCarthy, professor and chair of chemistry and meeting chair, "Our ACS region encompasses major universities and industries from Indiana to Minnesota. This event will be a showcase for the chemical sciences research and educational opportunities at NDSU and throughout the Red River Valley."

Symposia will include "Asymmetric Synthesis for the 21st Century," organized by Mukund Sibi and Greg Cook, NDSU; "Biomolecular Recognition," by Kathryn Thomasson, UND, and Sanku Mallik, NDSU; "Environmental Analytical Chemistry," by Anthony Borgerding, UND; "New Chemistry of the Main Group Elements," by Philip Boudjouk, NDSU; and "Coating Materials for the 21st Century," by Gordon Bierwagen and Dennis Tallman, NDSU.

Poster sessions are scheduled for the evenings of Sunday, June 4, and Monday, June 5. The meeting also will include presentations and discussions in the areas of agricultural and food chemistry, analytical chemistry, biological chemistry, chemical education, inorganic chemistry, organic chemistry and physical chemistry.

Among the special events is a Monday luncheon and panel discussion on chemical careers for women offered by distinguished chemistry alumni from NDSU and UND, and a Tuesday luncheon at which the 1999 and 2000 ACS Regional Awards for High School Chemistry Teaching will be presented, and featuring a team from Creighton University that does chemical demonstrations to musical accompaniment. These luncheons are open to the public, but tickets must be purchased before June 1. For details, call 1-8695.

The North Dakota College Chemistry Faculty Consortium, which consists of all faculty who teach chemistry in the North Dakota University System and the five Tribal Colleges, will hold its fourth annual meeting on Sunday evening of the regional meeting.

Middle level and secondary science teachers are encouraged to attend. Among the workshops for teachers will be one presented by Denise McCarthy of Ben Franklin Junior High School. Teachers can obtain graduate credits through NDSU Continuing Education for activities built around this meeting.

For more information on the meeting, visit the meeting Web site at www.chem.ndsu.nodak.edu/glrm/.

Gallery to exhibit pottery, photography from local artists

The Memorial Union Gallery is scheduled to present "Francine Corcoran: Where Land and Water Meet" and "Tama Smith: Prairie Fire Pottery" through June 8.

Corcoran's photography features natural elements such as frost, fog, ice, streams, rocks and trees. An outdoor enthusiast, Corcoran takes photographs in unimproved spaces using ambient light. Her photographs depict things ordinary in nature and often unseen.

Smith is a native of Bismarck and a graduate of the University of North Dakota. She has worked as a full-time ceramist for 13 years. Her pottery is known for its glaze work. All the color glazes are her own specially formulated original mixes. Smith works principally in high-fire stoneware, creating both hand-built and wheel-thrown forms. Her studio/showroom, Prairie Fire Pottery, is located in Beach, N.D.

All works from both artists will be available for sale.

Gallery hours are Monday through Friday from 10 a.m.-2 p.m. and by arrangement. For more information call Peg Fushong at 1-8239.

Summer concert series planned

The NDSU Summer Activities Program recently announced its schedule of outdoor, noon-hour concerts to be held on the east patio of the Memorial Union. Concerts are scheduled Tuesdays and Thursdays from May 23 through Aug. 3.

The concerts are free and will feature local, regional and national acts including singer Sarah Morrau, folk guitarist Nita Velo and blues band "Mr. Vanderbilt." The season is scheduled to begin May 23 with a performance by "The Roosters," a country band, from 11 a.m.-1 p.m. Cole Parsch, a folk guitarist, is scheduled for noon-1 p.m. May 25.

For a complete schedule of concerts, contact Heather Redeske at 1-7350 or Janine Thull at 1-7787.

American Indian organization plans kickoff June 3

Northern Plains Voices, a new, non-profit corporation dedicated to preserving, promoting and celebrating American Indian heritage, has scheduled an event in Fargo to unveil plans for several cultural projects, including a major event this fall.

The "Northern Plains Voices Kickoff 2000" is scheduled from 1:30-3:30 p.m. Saturday, June 3, at the Great Northern Restaurant, 425 Broadway. The event is free and open to the public.

According to Paul Boswell, director of multicultural student services, NDSU is a sponsor of the organization and several NDSU faculty, staff and students will be involved with the group and its projects.

The kickoff, which will include the unveiling of the organization's Web site, will feature American Indian entertainment, including performances by a drum group, dance troop and a fashion revue. American Indian foods, such as fry bread, wild rice soup and berry pudding, will be available.

For more information about the event, call Scott Satermo, Northern Plains Voices chair, at 239-9940.

Shorts and Reminders

Varsity Mart begins summer hours

Beginning May 15, the Varsity Mart's hours changed to 7:30 a.m.-4 p.m. Monday-Friday. It will be closed Saturdays through the summer. It also will be closed for inventory May 25-26.

Union Food Court Specials for May 17-24

The Corner Deli

Wednesday: roast beef

Thursday: ham

Friday: turkey

Monday: chicken

Tuesday: pastrami

Wednesday: roast beef

More Than a Burger

Wednesday: breaded chicken

Thursday: 1/4 pound cheeseburger

Friday: fish sandwich

Monday: 1/4 pound cheeseburger

Tuesday: chicken poppers

Wednesday: broiled chicken

A La Carte

Closed until fall

Coming Soon

Garden fresh salads and burgers will be served on the patio beginning May 30.

*Items are subject to change without notice. Call the Dining Services Lunch Line at 1-9501 to check out daily specials.

Positions available

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

Administrative Secretary/#1947
Ag and Biosystems Engineering
\$18,500+/year
May 19 (extended closing date)

Dispatcher/Clerk/#4875
Physical Plant
\$17,500 minimum/year
March 23

Administrative Assistant
Tri-College University
\$22,500+/year
May 22

Food Service Worker/#1058 (12-month position)
6 a.m.-2:30 p.m.; (weekend and summer hours vary)
Dining Services - Residence Dining Center
\$5.75/hour
May 31

Document Publishing Specialist
Document Publishing
\$15,500 minimum/year
May 30

Program Coordinator
TRIO
\$22,500 minimum/year
May 23

Graphic Designer/Web, News and Print
Ag Communication
\$20,000+/year
May 26

Assistant Registrar/#0553
Office of the Registrar
\$38,000+/year
May 19

Program Coordinator/#3213
Career Center
\$24,000 minimum/year
May 23

Web Systems Administrator/#0795
Information Technology Services
\$30,000 minimum/year
May 24

Admission Counselor/#0578
Admission
\$25,000 minimum/year
May 26

Chemist/#4793
Cereal Science
\$21,500+/year
May 31

Assistant Director of Marketing and Promotions/#4957
Athletics
Salary commensurate with qualifications and experience
May 30

Associate Director of Residence Life/#1413
Residence Life
Minimum of \$40,000 based on experience and education
Applications received by June 2 will receive priority consideration

Position openings also are available through the NDSU Web site at www.ndsu.nodak.edu/hr/.

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/ndsuzsizer/resadmin.html and click on "Funding Opportunities."

National Science Foundation (NSF)

Partnership for Innovation

www.nsf.gov/pubs/2000/nsf0082/nsf0082.htm

Deadline: June 1 (e-mailed letters of intent); July 6 (full proposal)

The Partnership for Innovation program is focused on connections between new knowledge created in the discovery process to learning and innovation. Concurrently, it addresses NSF's strategic intention to broaden participation of people and institutions involved in NSF activities. The goals of the program are to catalyze partnerships for innovation that will: (1) enable the transformation of knowledge created by the national research and education enterprise into innovations that create new wealth, build strong local, regional and national economies and improve the national well-being; (2) broaden the participation of all types of academic institutions and all citizens in NSF activities to more fully meet the broad work force needs of the national innovation enterprise; (3) create enabling infrastructure necessary to foster and sustain innovation in the long-term. This competition will support 15-25 promising partnerships among academe, government and the private sector. Proposals may be submitted by degree-granting academic institutions of higher learning. Proposal must be submitted as a single administrative package. A senior institutional administrator (dean or higher) at the lead institution must serve as PI or co-PI. Partners may include, but are not limited to: other academic institutions, not-for-profit institutions, private sector firms, entrepreneurs, venture capitalists, state and local government entities, trade and professional associations and federal laboratories. At a minimum, proposed partnerships must include academic institution(s) and private sector organization(s); or academic institutions(s) and state/local government entities.

National Science Foundation (NSF)

Computer Science, Engineering and Mathematics Scholarships

www.nsf.gov/pubs/2000/nsf0082/nsf0082.htm

Deadline: June 16 (letters of intent); Aug. 3 (applications)

NSF is inviting proposals to provide scholarships for low-income students to pursue associate, baccalaureate or graduate-level degrees in computer science, computer technology, engineering, engineering technology or mathematics. Higher education institutions and consortia that grant associate, bac-

calaureate or graduate degrees in computer science, computer technology, engineering, engineering technology or mathematics may apply. The academic institutions are responsible for selecting scholarship recipients.

U.S. Department of Agriculture (USDA)

Rural Cooperative Development Grants

www.rurdev.usda.gov/rbs/coops/csspec.htm

Deadline: June 2

The Agriculture Department is inviting pre-applications for projects to improve the economic condition of rural areas through cooperative development. USDA will give priority to applications that demonstrate a track record in administering a nationally coordinated or regionally or state-wide operated project; display the ability to help retain business or generate employment opportunities; create horizontal linkages among cooperative businesses here and abroad; provide technical assistance to under-served and distressed communities, and demonstrate environmental stewardship.

Canadian Studies Grant Programs

Conference Grant Program

www.canadianembassy.org

Deadline: June 15

The Canadian Studies Conference Grant Program supports major conferences addressing important and timely issues about Canada, Canada/U.S. or Canada/North America. It is intended to secure greater understanding of the background, complexity and ramifications of these issues. The grants are designed to assist an institution in holding a conference and publishing the resultant papers and proceedings in a scholarly fashion. Linkage with a Canadian institution is encouraged.

American Heart Association

Scientist Development Grant

www.americanheart.org/research/

Deadline: June 15

This program supports highly promising beginning scientists in their progress toward independence by encouraging and adequately funding research projects that can serve to bridge the gap between completion of research training and readiness for successful competition as an independent investigator. The research may be broadly related to cardiovascular function and disease, stroke, or related to basic science, clinical, bioengineering/biotechnology, and public health problems. Scientists with the M.D., Ph.D., D.O. or equivalent doctoral degree in all basic disciplines as well as epidemiological, community and clinical investigations and bioengineering/biotechnology investigations that bear on cardiovascular and stroke problems are eligible to apply. Applicants should be full-time faculty or staff members initiating independent research careers, usually at the rank of instructor or assistant professor (or their equivalents). Applications may be submitted for review in the final year of a postdoctoral research fellowship or in the initial years of the first full-time faculty/staff appointment.

American Heart Association

Established Investigator Grant

www.americanheart.org/research/

Deadline: June 16

This program supports the career development of highly promising clinician-scientists and Ph.D.s (who have recently acquired independent status) by encouraging and adequately funding high quality, innovative research projects for which

financial support has not been previously obtained from any other research granting agency. The science focus for this research may be broadly related to cardiovascular function and disease, stroke, or to related basic science, clinical, bioengineering/biotechnology and public health problems. Scientists in all basic disciplines, as well as epidemiological, community and clinical investigations and bioengineering/biotechnology investigations that bear on cardiovascular and stroke problems may apply (must hold M.D., Ph.D., D.O. or equivalent doctoral degree at application time). Applicants must be full-time faculty or staff members at the early formative stages of their independent research careers, usually at the rank of assistant or associate professor (or their equivalents). At the time of award activation, the investigator is usually four years but no more than nine years since first full-time faculty/staff appointment at the assistant professor level or its equivalent.

**American Heart Association
AHA-Bugher Stroke Award
www.americanheart.org/research/
Deadline: June 16**

This program seeks to stimulate investigations that will support the development of better stroke-preventive measures and better stroke interventions in the future. Scientists may focus any aspect of brain vascular function related to stroke. Such investigations may include but not be limited to: a focus on regulation of cerebral blood vessels, endothelial mechanisms in cerebral vessels, molecular biology of cerebral vessels, male/female differences in cerebral blood vessel function, racial differences in the function of cerebral blood vessels, mechanisms of ischemic injury (involving cerebral blood vessels), blood brain barrier function, interaction of stroke risk factors with cerebral blood vessels or molecular genetics (of disorders of cerebral blood vessels). Support is available for basic and clinical studies, including all aspects of primary and secondary prevention and acute treatment of stroke. Investigators conducting patient-related stroke research are encouraged to submit clinically-oriented projects. Applicants must hold the M.D., Ph.D., D.O. or equivalent doctoral degree at the time of application. Applicants must be full-time faculty/staff members of any rank pursuing independent research.

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

**American Heart Association
Grant-in-Aid
www.americanheart.org/research/
Deadline: June 19**

This program seeks to encourage and adequately fund the most innovative and meritorious research projects from independent investigators. Research may be broadly related to cardiovascular function and disease, stroke, or to related basic science, clinical, bioengineering/biotechnology and public health problems. Applicants must be full-time faculty or staff members of any rank holding the M.D., Ph.D., D.O. or equivalent doctoral degree at application time and pursuing independent research.

Calendar

May

Through May 31 "Mentor and Protege," An exhibition of work by NDSU Visual Arts faculty and their students, Reineke Visual Arts Gallery

29 Memorial Day, administrative offices closed, no classes

June

9 Last day of four-week classes

12 On-site registration for standard eight-week summer courses

12-17 PEARS Printmaking Workshop, "Traditional Plate Lithography," Art Building, room 103

13 Classes begin

July

4 Independence Day, Administrative offices closed, no classes