

## NDSU researchers receive \$1.9 million NSF grant



A group of NDSU researchers was among the recipients of grants announced by the National Science Foundation (NSF) under its new \$90 million Information Technology Research (ITR) initiative. Brian Slator, associate professor of computer science, is the principal investigator for the "Systems for Learning Science and Assessing Student Learning" project that received a \$1.94 million award.

### **Slator**

The five-year grant will fund the project, which uses technology developed in interactive, multi-user, virtual environment games to engage science students. The role-based systems immerse students in a scientific environment where they play the role of scientists who collect data and perform experiments.

Developed by NDSU's World Wide Web Instructional Committee, programs such as "Geology Explorer" and "Virtual Cell" allow students to "learn by doing" as they play educational games in a virtual environment. With "Geology Explorer" students use 15 field instruments and 25 laboratory instruments to identify an imaginary world's 90 rocks and minerals. The "Virtual Cell" allows students to move inside a cell and conduct a variety of experiments.

Committee members Donald Schwert, professor of geology; Paul Juell, associate professor of computer science; Bernhardt Saini-Eidukat, assistant professor of geology; Phillip McClean, professor of plant sciences; Alan White, dean of science and mathematics; and Jeffrey Clark, professor of sociology/anthropology, are participants in the research.

"This is a substantial grant that gives us a chance to show that we have some ideas that can really make a difference. A grant like this gives us the opportunity to share what we've learned with the world," Slator said. "A group of faculty and students has labored for three years putting together projects, fleshing out ideas and brainstorming this research agenda. There are several projects that are tied together by the same over-arching strategy."

The NDSU award was selected from more than 1,400 proposals. The NSF presented grants for 62 large projects that will average \$1 million per year for three to five years, involving 41 institutions in 22 states. Another 148 smaller projects will each total \$500,000 or less for up to three years, involving 81 institutions in 32 states.

"This initiative will help strengthen America's leadership in a sector that has accounted for one-third of U.S. economic growth in recent years," said President Bill Clinton. "High technology is generating jobs that pay 85 percent more than the average private sector wage. I am pleased that the NSF is expanding its investment in long-term information technology research. I urge the Congress to provide full funding for NSF so it can continue to make these kinds of investments in America's future."

According to NSF director Rita Colwell, "These projects represent major innovations in information technology, rather than routine applications of existing technology. Our strategy to support long-term, high-risk research responds to a challenge from the President's Information Technology Advisory Committee, which called for increased federal investment to maintain the U.S. lead in this important sector of the global economy."

The initiative emphasizes the subject areas of software, scalable information infrastructure, information management, revolutionary computing, human-computer

### **Varsity Mart to hold garage sale**

The Varsity Mart will hold a garage sale Sept. 20. The sale will be held outside, weather permitting.

Informational Web site set up on NDUS distance ed

### **Web site established for NDUS distance education information**

Robert Larson, distance education coordinator for the North Dakota University System, has created a Web site to provide information on distance education initiatives occurring on NDUS campuses. The site is at <http://warp6.cs.misu.nodak.edu/access/index.html>.

For more information about NDUS distance education programs, contact Larson at (701) 858-3186.

### **Next Issue**

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interfaces, advanced computational science, education/work force and social or economic implications of information technology. The program's main goals are to augment the nation's information technology knowledge base and strengthen the work force.

NDSU's award comes in distinguished company. Other recipients include researchers from Massachusetts Institute of Technology, Stanford University, University of Pittsburgh, University of Colorado, University of Illinois, University of California-Berkeley, California Institute of Technology, Duke University, University of Chicago, the University of Florida, Michigan State University and City University of New York.

## Benefits update

### Prescription coverage

Following announced changes to BlueCross BlueShield's prescription coverage, Lyn Pletta, benefits coordinator, said NDSU's plan will not be affected. Prescription coverage under the plan is as follows:

Generic	\$5 co-payment and 15 percent of balance
Brand Name	\$10 co-payment and 25 percent of balance
Non-formulary	\$10 co-payment and 25 percent of balance

With the removal of Claritin and Claritin-D from the formulary list, coverage remains the same because those drugs now would be covered as non-formulary.

### TIAA-CREF

TIAA-CREF representatives will visit campus this fall for one-on-one counseling sessions. Faculty and staff interested in discussing retirement planning, allocations, tax sheltering or mutual funds with a representative may schedule and appointment by calling 1-800-842-2009. Ask for Liz.

Campus visits will be Sept. 26-28, Oct. 17,18 and Nov. 28-30

### Dental enrollment

Dental enrollment is coming up in October, and NDSU again will be offering flu shots for faculty and staff on campus in November. Additional information will be sent out by e-mail and appear in It's Happening at State.

## University Senate to act on corporate sponsorship recommendations

The University Senate is expected to vote Oct. 9 on recommendations offered by the ad hoc committee on corporate sponsorship. The committee, chaired by Kenneth Magel, professor of computer science, presented its report to the Senate Sept. 11, which tabled action until the October meeting to encourage full review and discussion.

"As a land-grant university, NDSU has a mission to serve the public and it has enjoyed many relationships with private individuals, corporations and groups. With the funding challenges we face, those relationships should continue and expand," said Magel. "At the same time, NDSU's integrity as an academic institution demands that the relationships benefit broad public needs and they must be consistent with the university's role as a seeker of truth."

The committee's recommendations listed six principles, including:

- NDSU needs corporate and other external support. NDSU should encourage efforts to foster relationships with external entities that are consistent with the other principles;
- NDSU faculty must control all curricula and course offerings associated with NDSU;
- NDSU must control all staffing decisions for NDSU activities;
- NDSU faculty must be able to decide upon their own research programs and must be able to publish results freely (perhaps with a reasonable delay when requested by a funding source);
- No external entity shall be given exclusive access to NDSU facilities, personnel, students or curricula;
- It must be clear to any interested outsider (such as alumni, potential donors, accreditors, legislators and the media) that these principles are being followed.

The report also includes representative consequences for each of the principles.

The committee was formed in fall 1999 at the request of Vice President for Academic Affairs Craig Schnell. Committee members include Magel; Thomas Colville, professor of veterinary and microbiological sciences; David Danbom, professor of history; Donald Miller, professor and chair of pharmacy practice; Thomas Riley, dean of arts, humanities and social sciences; and Frank Yazdani, associate professor of civil engineering.

Magel said senators and faculty members with questions or comments about the recommendations may contact any committee member or e-mail him at [Kenneth\\_Magel@ndsu.nodak.edu](mailto:Kenneth_Magel@ndsu.nodak.edu).

## Interior design and architecture students' project to aid NDSU Libraries

NDSU architecture and interior design students are using a class project to assist the NDSU Libraries as it tries to return to normal following the June flood. Through the end of September, the students will work on tentative plans and drawings for the renovation of the lower level of the Main Library, which was extensively damaged by contaminated water.

Seen as a learning experience for students and a benefit for the library, the students' work will be presented to the professional architect selected for the renovation project.

Pamela Drayson, NDSU Libraries director, said the diagrams will help convey important ideas to the architect. "Right from the beginning we want to incorporate the students' point of view, and the outcome has got to be stronger because of that," she said. "This project is an effective use of some wonderful resources here at NDSU. There aren't many libraries around the country that have the luxury and availability of an architecture program and an interior design program."

The participating classes are taught by Susan Ray-Degges, associate professor of apparel, textile and interior design, and Ronald Ramsay, associate professor of architecture and landscape architecture.

The 19 students in the "Senior Interior Design Studio" class will interview other students and library staff, and develop proposals on how best to use the Main Library's lower level.

"We're always excited to do real-life projects," Ray-Degges said. "Also, the students are direct users of the space and they are usually your best guess on how they perceive the space and how it might function. This gives the students an opportunity to have some input on something they all use."

In addition, 16 third-year architecture students are involved with the project. They have been divided into three teams that will each propose ideas and prepare isometric drawings.

"This is the kind of project I call 'packing the suitcase,' which is typical of the kind of practice many architects have today," said Ramsay. "Very often they are not designing new buildings, they are retrofitting or reallocating space in existing structures. So, this is a real good project for that kind of issue. In this case, the columns, floor, ceiling, walls and most mechanical systems are already in place. Students will have to find functions within those volumes."

The project gives the students valuable practical experience and, perhaps, a good basis from which to build a career. "When they graduate, they will have photos, drawings, diagrams and concept sheets. That will strengthen their portfolio," Drayson said. "They will have had a great learning experience and they'll have the documentation to prove it."

Drayson said future class projects may include plans for the renovation of the Pharmacy Branch Library, the Chemistry Branch Library and the second floor of the Main Library.

## Architecture students begin downtown project

Sixteen fifth-year NDSU architecture students have relocated their design studio to quarters in downtown Fargo for the fall semester to assist with a proposed project to link Fargo and Moorhead. Under the supervision of adjunct instructor Jeff Morrau, the students will work on a project called "Revisiting the Cultural Bridge" that will illustrate possible ways buildings, bridges and activities can bring the two cities together as a single community, and how the Red River can serve as its focus.

"Our students will reach out into the community to talk with residents, workers, businesspersons, government officials, arts organizations and others to identify visions that can unite the two communities," said Paul Gleye, professor and chair of architecture and landscape architecture. "They will talk with the River Keepers, the Army Corps of Engineers, city and county engineers and planners, and other technical experts to mold these visions into viable flood-conscious proposals. In the end, the students will develop four separate projects that could act as models for linking together the downtowns of Fargo and Moorhead."

The projects will be presented to the public in December.

The studio, undertaken in cooperation with the Downtown Community Partnership and the cities of Fargo and Moorhead, is housed in the Black Building on Broadway, in the former Elm Tree Square Cafe space. The students completed the move Sept. 11.

"The public is welcome to visit the studio at any time," Gleye said. "We hope the downtown location will encourage contact between the students and the public, and we welcome the public's interest and input."

## North Dakota EPSCoR program seeks research mentors

North Dakota EPSCoR is soliciting faculty members in the science, engineering and mathematics departments at NDSU and the University of North Dakota to provide guidance and mentoring to the next generation of researchers. Mentoring opportunities are available in conjunction with three EPSCoR sponsored programs.

- "Science Bound" targets graduating high school students who show an interest in the science, engineering and mathematics fields. Students work on original research projects with the mentor.
- The Advanced Undergraduate Research Awards (AURA) program provides summer undergraduate research opportunities.
- The faculty laboratory and research experience program encourages collaboration between NDSU and UND researchers and the faculty of the state's comprehensive and liberal arts colleges and universities.

Faculty are invited to register research topics on the ND EPSCoR Web page at [www.ndsu.nodak.edu/epscor/science\\_outreach](http://www.ndsu.nodak.edu/epscor/science_outreach) by Sept. 29. For more information contact David R. Givers at 1-7516 or [David\\_Givers@ndsu.nodak.edu](mailto:David_Givers@ndsu.nodak.edu).

## IVN turns 10; to host cyber seminars

The North Dakota Interactive Video Network (IVN) is celebrating its 10th anniversary. To celebrate past achievements and promote the future use of technology in the state, IVN is planning monthly cyber seminars on the network during the 2000-2001 academic year.

The first cyber seminar is scheduled for 11 a.m. Thursday, Sept. 21, in IVN classroom EML 183. U.S. Sen. Byron Dorgan and NDUS Chancellor Larry Isaak will be the featured speakers. Dorgan will discuss the current status and future challenges of developing technology in rural states, while Isaak will focus on the continued development of technologies for distance education in North Dakota. The event is open to the public.

Future "IVN is 10" cyber seminars will include the role of North Dakota in United States strategic defense, the use of tele-technologies in tele-medicine, and other topics. The seminars will be conducted on the third Thursday of each month through May.

For more information, contact the IVN office at (701) 777-6486.

## NDSU part of inter-institutional distance education program

NDSU, partnering with seven other Midwest universities, recently received funding from the U.S. Department of Education for a project titled "A National Model for Inter-Institutional Postbaccalaureate Distance Education Programs." The project was one of 10 to be funded through the "2000 Learning Anywhere Anytime Partnership Awards."

The Education Department is providing \$1,073,779 to support the three-year project. The principal investigators for NDSU are Virginia Clark, dean of human development and education, and Greg Sanders, associate dean of human development and education.

The project, which will utilize inter-institutional teams of faculty, academic deans, registrars, continuing education directors, graduate deans and chief financial officers, will revamp the policy and practice environment for postbaccalaureate education, simplify inter-institutional partnership arrangements and provide for academic and fiscal accountability of such programs.

A recently launched inter-institutional Web-based master's degree and postbaccalaureate certificate program in family financial planning will serve as the primary test bed for resolving policy issues, organizational and financial problems and infrastructure barriers. The project will result in the dissemination of a national model for inter-institutional postbaccalaureate distance education programs and incorporation of a collaboration coaching model at each participating university to smooth the way for the development of other inter-institutional programs.

## Researchers seek volunteers with Tourette syndrome

NDSU psychology researchers are seeking volunteers with Tourette syndrome for a new study. The research will explore the power of self-suppression in controlling symptoms. Clinical psychology graduate student Amy Meidinger, under the mentorship of Ray Miltenberger, professor of psychology, is conducting the study for her master's degree thesis.

Tourette syndrome is a neurological disorder in which patients exhibit motor and vocal tics which are sudden, rapid and recurring in nature. Motor tics typically involve the head, neck and facial regions and may include eye blinking, grimacing, neck jerking or repetition of another person's movements. Vocal tics frequently include words or sounds such as grunting, sniffing or throat clearing.

"We're investigating a new area of research that, to the best of our knowledge, has not been done before," said Meidinger.

In the study, "An Investigation of Tic Suppression in Tourette Syndrome," volunteers will be asked to attempt to suppress tics over a specific time frame. Researchers will observe their efforts and continue to monitor their behavior after the time limit has elapsed.

"This is something people with Tourette syndrome may be very interested in. We don't really have any idea how long people can voluntarily suppress their tics," Meidinger said, noting that treatment may be offered for volunteers. "We want to see to what extent they can suppress their tics."

Tourette syndrome affects four to five individuals in every 10,000 and is more common in males than females. Symptoms usually occur in childhood or early adolescence, but must be present by age 18 in order to be diagnosed. Patients often describe the impending tic as a nearly irresistible urge that can be suppressed for varying lengths of time, however when the tic does occur relief is typically incomplete or temporary.

Adults and children age six and above with a diagnosis of Tourette syndrome and the ability to understand verbal instruction to suppress tics are invited to participate. A minimum commitment of five hours is required. For further information or to volunteer for the study, contact Meidinger at 1-8624 or Miltenberger at 1-8623.

## People

### College of Business Administration announces awards

The NDSU College of Business Administration has recognized three of its faculty with its annual teaching, service and research awards. James Clifton, lecturer of accounting, was recognized with the Teacher of the Year Award; Michael Garrison, professor of business administration, received the Outstanding Service Award; and Gerrard Macintosh, associate professor of business administration, was recognized with the Excellence in Research Award.



**Clifton**

"My reaction was one of absolute surprise," said Clifton, who teaches intermediate accounting, principles of accounting and governmental and not-for-profit accounting. "The award was one of my goals to achieve and I'm immensely pleased that I got it."

Clifton, who originally was an NDSU faculty member from 1988-90, left campus to work in private business for a time. His love for teaching was the reason he returned in 1998. "I enjoy working with the students and watching the light bulb come on," he said. "I also enjoy being in a constant learning mode myself. I always try to be well ahead of the students."

Clifton earned his bachelor's degree and his master of accountancy degree at the University of North Dakota. He received his Certified Public Accountant certification in 1988.



**Garrison**

Garrison was honored for his service activities both on campus and in outreach efforts. "I'm quite honored to be recognized by my colleagues for my service to the university, college, community and profession. It's an important award for me," said Garrison, who joined the NDSU faculty in 1980.

Garrison's list of activities is extensive, including active involvement with several committees and task forces of the Academy of Legal Studies in Business, most recently the national assessment task force on legal studies education. He has served as editor and reviewer for the *American Business Law Journal*.

He participates in the Business Education Partnership Committee of the Chamber of Commerce of Fargo Moorhead, which sponsors a business ethics conference. Garrison also is a member of the Town/Gown Board of the Northern Plains Ethics Institute and the Tri-College World Studies Committee.

On campus, he was the chair of the Special Committee on University Governance and was heavily involved in drafting the college's accreditation report as chair of the College Strategic Planning Committee.

Garrison earned a bachelor's degree in economics from NDSU and juris doctor degree from the University of North Dakota School of Law.



**Macintosh**

Macintosh was recognized for his research in sales, focusing on such areas as marketing relationships, consumer behavior and personal selling.

"I'm honored and surprised," said Macintosh, who joined the NDSU faculty in 1997 after more than 10 years in the banking and insurance industries. "All my research is applied, so I'm working with business people. I research timely issues, so it is interesting from both the theoretical and application perspectives. I enjoy discussing my research in the classroom."

In nominating Macintosh, James Hansen, associate professor of accounting, said, "He is well respected in the field and his work, which has been published in the top marketing journals in the country, is often cited by other researchers. He certainly is one of the top researchers in the college."

Macintosh earned his bachelor's and master's degrees from UND. His doctorate in marketing is from the University of Nebraska, Lincoln.

The teaching, service and research awards were presented Aug. 24 during the college retreat.

### Goos, Johnson published

R. Jay Goos, professor of soil science, and Brian Johnson, research associate, have had three new articles accepted for publication in journals.

"A Comparison of the Availability of Three Zinc Sources to Maize Under Greenhouse Conditions," was published in a recent issue of *Biology and Fertility of Soils*. "A Comparison of Three Methods for Reducing Iron-deficiency Chlorosis in Soybean" is in press for the *Agronomy Journal*, and "Response of Spring Wheat to Phosphorus and Sulfur Starter Fertilizers of Differing Acidification Potential" has been accepted and is in press for the *Journal of Agricultural Science*.

### Patnode performs at music festivals

Matthew Patnode, assistant professor of music, recently performed in two music festivals. The Hard-Bop Saxophone Quartet, for which Patnode plays soprano and alto saxophone, performed at the 12th World Saxophone Congress in Montreal in July. Patnode also was a guest saxophone soloist and clinician at the annual "Jass" Festival, Aug. 3-5, in Minot, N.D., where he performed with two jazz bands.

Patnode joined the faculty at NDSU in 1999. He teaches applied saxophone, flute, bassoon, chamber music and jazz studies. He holds degrees in saxophone performance from Arizona State University and State University of New York at Potsdam. Patnode also has studied at the Conservatoire National de Musique in Bordeaux, France, and was awarded the Prix de Vermeil in saxophone.

## Graduate earns high CPA exam score

NDSU graduate Denesh Gunasekerampulle, BS '98, received the third highest score on the May North Dakota Certified Public Accountant exam. Gunasekerampulle, who passed the exam in his first sitting, also was listed among the top 120 scores recorded nationwide.

Gunasekerampulle, a native of Sri Lanka, graduated with majors in business administration and accounting. He recently accepted employment at the Chicago office of PricewaterhouseCoopers, LLP, and will work in the company's Midwest Investigators Group, focusing on forensic accounting.

"Once again we have someone in the top three in North Dakota, something we do fairly consistently," said James Hansen, associate professor of accounting, noting that over the past nine exams, NDSU graduates have placed in the top three positions 13 times. "The success of our graduates shows the consistency of the strong program we have at NDSU and the good students we get. They do a wonderful job."

Other NDSU alumni who were recognized for passing the CPA exam in one sitting were James Ford, BS '00; Amy Seykora, BS '00; and Jason Wahl, BS '99.

Also passing the exam were NDSU graduates Bruce Bauske, BS '98; Kris Benson, BS '99; Leah (Hatlestad) Corner, BS '97; Tony Hauck, BS '98; Eric Mettler, BS '98; Robert Nelson, BS '99; Jeremy Ulmer, BS '97; and Galyn Wentz, BS '97.

In addition, Carrie McCaslin, BS '99, was in the top 10 in the recent Minnesota CPA exam. She also passed in one sitting.

## Events

### Ag engineering societies plan annual conference in Moorhead

The North Central Sections of the Canadian and American Societies of Agricultural Engineers will hold their annual conference Sept. 29-30 at the Red River Inn and Conference Center, Moorhead. Engineers, technical professionals and students from Saskatchewan, Manitoba, Minnesota, South Dakota and North Dakota will be participating in the conference. Faculty and students from NDSU are invited to attend.

The conference will include technical presentations, a discussion by Case engineers on the development of the Quadtrac, industry tours, a quarter-scale tractor display in the ABEN department and a student design competition.

Registration for students is \$5. The preliminary program and registration forms are available at the FTP site: [FTP://134.129.127.234/](ftp://134.129.127.234/). Look under the directory "2000 CSAE-ASAE NC Intersectional Meeting."

Contact Ken Hellevang at 1-7243 or [kjh-eng@ndsuxext.nodak.edu](mailto:kjh-eng@ndsuxext.nodak.edu) for complete registration information. Pre-registration is due Sept. 20.

## Tony Miltich to perform in Gallery

Singer/songwriter Tony Miltich is scheduled to present a concert at 7:30 p.m. Friday, Sept. 22, in the Memorial Union Gallery. Miltich is a Minnesota native who has played and performed across the region much of his adult life. He will present a mixture of original music and familiar tunes.

Admission is \$5 for NDSU students; \$6 for others. Tickets are available at the Memorial Union Ticket Office.

## Luncheon planned to discuss assessment techniques

NDSU faculty are invited to participate in a luncheon scheduled for 11:45 a.m. Thursday, Sept. 21, in the Memorial Union Ballroom. The event will recognize faculty from the Department of Health, Physical Education and Recreation for their work with assessment activities. It is also an opportunity for faculty to learn about assessment practices used in the department. A sandwich buffet will begin at 11:45 a.m. and all activities will be concluded by 1 p.m.

Bradford Strand, chair and professor of health, physical education and recreation, will present "Seven Steps to Successful Assessment" and initiate discussion of how assessment activities are organized in his department. This short presentation will be followed by a question-and-answer session conducted by the faculty of the HPER department.

The luncheon is sponsored by the members of the University Assessment Committee as part of a series of events made possible by a grant from the Bush Foundation.

Susan Hatfield, assessment of student learning expert from Winona State University, will return to NDSU to serve as a consultant with colleges and departments on assessment practices and to present an open forum on assessment. Hatfield is scheduled to visit NDSU Oct. 16-18. As her visit to NDSU approaches, the University Assessment Committee will invite departments and colleges to schedule time to meet with her and discuss their activities and objectives in assessing student learning.

Suggestions for topics for future assessment luncheons may be submitted at the luncheon to any member of the University Assessment Committee, or by calling 1-8262.

Members of the University Assessment Committee include: Strand; Richard Chenoweth, director of summer school; Bob Harrold, professor of animal and range sciences; Allyn Kostecki, director of TRIO programs; Mary Kuzel, assistant professor of pharmacy; Joe Latimer, instructor of business administration; Jeff Low, clinical assistant professor of pharmacy; Jim Lindley, associate professor of ag and biosystems engineering; Bill Martin, assistant professor of mathematics; Ines Rothe, graduate student in plant sciences; J.W. Schroeder, extension specialist in animal and range sciences; Richard Shaw, associate professor of English; and William Slanger, director of institutional analysis.

## Domestic violence seminar planned

A training seminar focusing on domestic violence is planned for 8 a.m.-4 p.m. Thursday, Oct. 12, at the Armory in Bottineau, N.D.

The event is being sponsored by the "STOP" Violence Against Women Training Committee, a statewide group. Nona Wood, associate director for student rights and responsibilities, is a member of the committee that developed the seminar. She is the higher education representative on the committee. Other committee members instrumental in planning the event are Lonnie Olson, state's attorney for Ramsey County, and Detective Sgt. Nancy Murphy of the Minot Police Department.

Registration, which is \$10 and includes a noon meal, is due by Sept. 29.

The committee is planning to offer other training opportunities throughout the year. For more information about this or upcoming events, contact Wood at 1-7754.

## Softball team to be honored at banquet

The NDSU national championship women's softball team will be recognized at a banquet Friday, Sept. 22, at Fargo's Doublewood Inn.

A social is scheduled to begin at 6:30 p.m. with dinner following at 7 p.m. The program will feature NDSU head coach Mitch Hanson, presentation of the 2000 Bison national champion women's softball team and a season highlight tape.

Tickets are \$15 per person and can be reserved by calling Lois at 1-8869 until noon Thursday, Sept. 21.

Prior to the banquet, at 3:30 p.m., an alumni game is scheduled at the Ellig Sports Complex. The event will showcase the newly remodeled softball field.

## New economy to be focus of state business conference

The North Dakota Business Conference is scheduled for Oct. 10-11, at the Holiday Inn, Fargo. An expert on the digital economy, the chairman of the U.S. Chamber of Commerce and Gov. Ed Schafer will headline the conference.

Its theme is "North Dakota @ The Crossroads," and it is coordinated by the Greater North Dakota Association, North Dakota's State Chamber of Commerce.

To register for the conference, or for more information, call GNDA at (701) 222-0929 or 800-382-1405. Or register online at [www.gnda.com](http://www.gnda.com). To request information send e-mail to [gnda@gnda.com](mailto:gnda@gnda.com).

A full conference agenda can be found on GNDA's Web site at [www.gnda.com](http://www.gnda.com).

## Volunteer Network to host information fair

The 2000 Volunteer Network Agency Fair is scheduled for 9:30 a.m.-2 p.m. Wednesday, Sept. 20, on the Memorial Union Concourse.

The event is for students, faculty and staff to learn about the volunteer opportunities in the Fargo-Moorhead area. Members of the Volunteer Network staff will be available to provide information about the program. More than 30 agencies from the area are scheduled to attend.

For more information contact Nicole Kahl, student director, at 1-1055.

## Shorts and Reminders

### Union Food Court specials Sept. 20-27

#### The Corner Deli

Wednesday: roast beef  
Thursday: Italian combo  
Friday: chicken  
Monday: turkey  
Tuesday: corned beef  
Wednesday: roast beef

#### More Than a Burger

Wednesday: 1/4 pound hamburger  
Thursday: popcorn chicken  
Friday: double cheeseburger  
Monday: 1/4 pound hamburger  
Tuesday: bacon cheeseburger  
Wednesday: breaded chicken

#### A La Carte

Wednesday: hand-carved roast beef  
Thursday: pork chop suey  
Friday: taco salad  
Monday: chicken strips  
Tuesday: French dip  
Wednesday: fisherman's fillet

#### Pizza Express

Wednesday: creamy garlic chicken  
Thursday: Tuscany  
Friday: once around the kitchen  
Monday: Hawaiian  
Tuesday: farmhouse  
Wednesday: meatball

\*Items are subject to change without notice.

Call the Dining Services Lunch Line at 1-9501 to check out the daily specials. Questions or comments may be dropped in the suggestion boxes in the dining center and the Union Food Court, or call Kristina at the Union Buffet at 1-8122.

**Positions Available**

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

Administrative Secretary/#3406

Graduate School

\$19,000+/year

Sept. 26

Food Service Worker/#1040

(Monday-Friday; weekends as necessary)

6:30 a.m.-3 p.m.

Dining Services – RDC

\$6/hour

Sept. 26

Food Service Worker/#2166

(Monday-Friday; weekends as necessary)

11:30 a.m.-8 p.m.

Dining Services – RDC

\$6/hour

Sept. 26

Food Service Worker/#1183

(Monday-Friday; weekends as necessary)

11 a.m.-7:30 p.m.

Dining Services – WDC

\$6/hour

Sept. 27

Bakers Helper/#1124

10-month position/40 hours per week

5 a.m.-1:30 p.m. (Monday-Friday)

Dining Services - Bakery Department

\$6.75 minimum/hour

Sept. 22 (extended)

Pizza Attendant/#4532

Dining Services – UDC

\$6.15 minimum/hour

Sept. 8 (internal); Sept. 22 (external)

Weekend Swing Cook

(nine-month; part-time, non-benefited)

Saturday – 8 a.m.-4:30 p.m.; Sunday – 10:30 a.m.-7 p.m.

Dining Services – RDC

\$7.25/hour

Open until filled

Equipment Operator/#597

Physical Plant

\$16,640 minimum/year

Sept. 27

Electrician/#0970

Physical Plant

\$30,000 minimum/year

Sept. 27

Maintenance Worker/#5028

Residence Life

\$23,000 minimum/year

Sept. 28

Teacher Technician - Preschool Room/#0223

CDFS/Center for Child Development

\$1,350 minimum/month (nine-month position)

Sept. 20

NAPP Coordinator/#3829

Pharmacy Practice

\$28,000 minimum/year

Oct. 1

Chemist/#1568

Cereal Science

Salary dependent on qualifications

Sept. 27

Rangeland Specialist/#1468

Animal and Range Sciences

\$29,000 minimum/year

Oct. 20

Research Specialist

Zoology

\$23,000 minimum/year

Oct. 1

Microcomputer Hardware Technician/#5017

Ag Communication

\$26,000 minimum/year

Sept. 26

Information Specialist/#1963/2274

Ag Communication

\$25,500 minimum/year

Sept. 18

Director

Center for Writers

Salary dependent on qualifications

Oct. 1

Position openings also are available through the NDSU Web site at [www.ndsu.nodak.edu/hr/](http://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 1-7035 or refer to the web site or contact person provided below. For information about other grants available, 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." You also may do a funding opportunities search via SPIN, available at [www.ndsu.nodak.edu/ndsusizer/SPINplus/SPINplus.htm](http://www.ndsu.nodak.edu/ndsusizer/SPINplus/SPINplus.htm).

### Environmental Protection Agency

### Environmental Education Projects

[www.epa.gov/enviroed](http://www.epa.gov/enviroed)

**Deadline: Nov. 15**

Grants of \$25,000 or more will be made by EPA headquarters for projects that increase the capacity to deliver coordinated environmental education programs across states; use environmental education as a catalyst to advance education reform goals; or develop model projects to educate the public about environmental issues in their communities through community-based organizations or via print, film, broadcast or other media.



**Department of Labor  
Community Audit Demonstration Projects (DoL/ETA)  
www.doleta.gov - refer to announcement SGA/DFA-110  
Deadline: Nov. 17**

The Labor Department's Employment and Training Administration has announced a demonstration program to support promising practices in strategic planning and research related to community audits for assessing local labor market and economic trends. Community audits are strategic planning practices that enable decision-makers to get a handle on rapidly changing demographic and economic trends and their job-related impacts.

**National Science Foundation  
Information Technology Research  
www.nsf.gov/pubs/2000/nsf00126/nsf00126.txt  
Deadline are given as three-day ranges, determined by zip code and type of project.**

The National Science Foundation is inviting applications for innovative high-payoff research that explores new scientific, engineering and education areas in information technology. Up to \$500,000 is available for small projects; from \$500,000 to \$5 million for group projects; and up to \$15 million for large projects. The maximum project period is five years.

**NST-NATO  
Postdoctoral Fellowships in Science and Engineering  
www.nsf.gov/pubs/2000/nsf00145/nsf00145.htm  
Deadline: Nov. 28**

The National Science Foundation is inviting applications for 12-month postdoctoral research fellowships for research abroad and to host scientists from NATO partner countries. U.S. applicants may apply for scientific research at appropriate government and nonprofit scientific institutions in NATO member or partner countries.

**National Pork Producers Council  
1. Research Solicitation for 2001 Funding - Deadline: Oct. 27  
2. Supplemental Request for Proposals - Deadline: Sept. 28**

The National Pork Producers Council (NPPC) is soliciting research proposals dealing with pork production (environment and swine health) and pork products (quality, safety and nutrition). Specific areas of solicitation and the priority topics within an area are described individually. The supplemental request for proposals solicits proposals to study the feasibility of identification of swine and traceability of the product throughout the pork chain and can include the possibility of a second phase involving development of a system or model for the U.S. pork chain and pilot testing of this concept in a practical situation. NPPC strongly encourages a team approach with multi-disciplinary and international involvement on the team. Consideration should be given to engineers, economists and/or meat scientists for team members.

**National Academy of Recording Arts and Sciences (NARAS)  
Research on Music  
www.grammy.com/grantprogram  
Deadline: Oct. 1**

Applications for grants from the National Academy of Recording Arts and Sciences are sought. Proposed projects may fall in any of three categories: 1) archiving and preserving America's music and recording heritage; 2) research related to music, such as music education methodology in early childhood or the effects of music study on early childhood development; and 3) the health and well-being of music professionals.

**National Aeronautics and Space Administration (NASA)  
Spacecraft Technology  
http://spacescience.nasa.gov or contact Nancy Jenkins at njenkins@hq.nasa.gov  
Deadline: Oct. 10**

Proposals for exploratory research to begin long-range development of spacecraft technology are invited by NASA. This initiative is specifically interested in technology development focused on revolutionary architectures for very large, ultra-lightweight structures and apertures. Proposals are sought for exploratory research in two areas: 1) large apertures for breakthrough imaging; and 2) large apertures for solar sails.

## Calendar

### September

Through Sept. 24 Studio/scholarship recipient exhibition, Reineke Visual Arts Gallery

20 Entomology—Mac Butler, "Who Hears a Horton? Entomology Under the Midnight Sun," 1 p.m., Hultz 272

21 Biotic Resources—James (Pat) Ward, Jr., "Ecological Responses by Mexican Spotted Owls to Environmental Variations in the Sacramento Mountains, New Mexico," 3:30 p.m., Stevens 230

22 Fubuki Daiko: Japanese Taiko Drums performance, 7:30 p.m., Festival Concert Hall; call 1-7969 for ticket information

22 Tony Miltich concert, 7:30 p.m., Memorial Union Gallery; \$6 general admission tickets available at Memorial Union ticket office

22 Biotic Resources—Hildy Reiser, "Development of a Natural Resources Program for the Department of Defense," 10 a.m., Stevens 230

22 Animal and Range Sciences—Robert Harrold, "How Do Students Learn—And Why Do Faculty Need to Know?" 3 p.m., Hultz 104

22 Psychology—Paul D. Rokke, "Applying Cognitive Psychology to the Study of Psychopathology," 3:30 p.m., Minard 209

22 Plant Sciences—Michael Walsh, University of Western Australia, "At Harvest Weed Seed Destruction to Minimize the Impact of Herbicide Resistance," 3:30 p.m., Loftsgard 114

23 Soccer vs. University of North Dakota, 1 p.m., Ellig Sports Complex

23 Football vs. University of South Dakota, 7 p.m., Fargodome

24 Soccer vs. Truman State, 1 p.m., Ellig Sports Complex

26-28 TIAA-CREF representative on campus for personal consultation; call 1-800-842-2009 to schedule a one-on-one appointment; ask for Liz

26-Oct. 21 James Falck exhibition, Reineke Visual Arts Gallery

27 Physics—Ananda Shastri, Moorhead State University, "Physics in Brain Imaging: Functional Magnetic Resonance Imaging," 4 p.m., Memorial Union, Prairie Room (335)

29 Psychology—Joshua Smyth, Syracuse University, "Structured Writing About Stressful Experiences: Exploring New Frontiers and Opportunities," 3:30 p.m., Minard 209

30 Football vs. UND, 1:30 p.m., Fargodome

30 Soccer vs. Minnesota State-Mankato, 11 a.m., Ellig Sports Complex

## October

Through Oct. 15 Theodore Waddell exhibit, "15 Years of Prints," Memorial Union Gallery

Through Oct. 21 James Falck Exhibition, Reineke Visual Arts Gallery

1 Soccer vs. St. Cloud State, 1 p.m., Ellig Sports Complex

3 Science, Religion, and Lunch Seminar—Davis Cope, "What is pseudoscience?" noon, Memorial Union 365

6 Volleyball vs. South Dakota State, 7 p.m., Bentson Bunker Fieldhouse

6 Psychology—David Wittrock is scheduled to present a seminar at 3:30 p.m. in Minard 209

7 Volleyball vs. Augustana College, 7 p.m., Bentson Bunker Fieldhouse

13 Reception for Theodore Waddell, 4-6 p.m., Memorial Union Gallery

13 Reception for James Falck exhibition, 7-8 p.m., Reineke Visual Arts Gallery

13 Psychology—Stacey Benson, Southeast Human Service Center, Fargo, "Recidivism Rates of Sexual Offenders," 3:30 p.m., Minard 209

14 Homecoming football game vs. South Dakota State, 1:30 p.m., Fargodome

14 Soccer vs. Augustana College, 11 a.m., Ellig Sports Complex

15 Soccer vs. South Dakota State, 1 p.m., Ellig Sports Complex

17 Free NDSU staff preview night of Little Country Theatre's "A Funny Thing Happened on the Way to the Wedding," 7:30 p.m., Askana Auditorium

17 Science, Religion and Lunch Seminar—John Helgeland, "Contemporary Religious Studies Looks at Evolution," noon, Memorial Union 365

18-22 Little Country Theatre production, "A Funny Thing Happened on the Way to the Wedding," Wednesday–Saturday, 8 p.m.; Sunday, 2 p.m., Askana Auditorium; for tickets, call the Division of Fine Arts Box Office at 1-9442

19-20 TIAA-CREF representative on campus for personal consultation; call 1-800-842-2009 to schedule a one-on-one appointment; ask for Liz

20 Psychology—Amy Wenzel, University of North Dakota, "An Evaluation of Schema-Based Models of Information Processing in Anxiety Disorders," 3:30 p.m., Minard 209

23-Nov. 16 Linda Olson exhibit, "North American Rock Art," Memorial Union Gallery

24 Volleyball vs. UND, 7 p.m., Bentson Bunker Fieldhouse

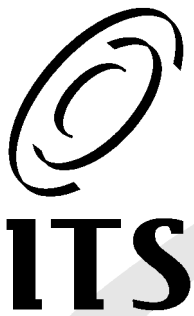
27 Volleyball vs. University of South Dakota, 7 p.m., Bentson Bunker Fieldhouse

27 Psychology—Mark A. Lau, Centre for Addiction and Mental Health, University of Toronto, "Inhibitory Deficits for Negative Information in Major Depression," 3:30 p.m., Minard 209

28 Volleyball vs. Morningside College, 7 p.m., Bentson Bunker Fieldhouse

30 Advising week begins for Spring 2001 semester

31 Science, Religion and Lunch Seminar—Lynn Rust, "Swapping genes: Mechanisms of bacterial evolution Part 1," noon, Memorial Union 365



The list below provides a summary of training sessions, services and important reminders and notifications. Watch for the ITS newsletter for additional information pertaining to these highlighted areas.

• **ITS Help Desk newsletter changes name**

To encompass more than just Help Desk information, ITS has changed the name of its newsletter to [ITS.news@NDSU](mailto:ITS.news@NDSU). This newsletter will continue to provide updated information regarding all ITS services and should be out shortly.

• **Fall training sessions scheduled**

ITS has organized a full schedule of training sessions for fall. Informational brochures have been mailed to faculty and staff listing the session details of time, date and place. If you did not receive the mailing please contact Lorna Olsen at 1-6328 or [Lorna\\_Olsen@ndsu.nodak.edu](mailto:Lorna_Olsen@ndsu.nodak.edu).

• **The Technology Lunchbox series continues**

Back by popular demand is the Technology Lunchbox series, beginning Monday, Sept. 25. The first session, from 12:10-12:50 p.m. in FLC 319, is a demonstration on the Corporate Time Calendar. Bring a lunch.

• **Software highlights**

-New HECN Select agreement with Microsoft will result in lower software prices

-AutoCAD licenses expire Oct. 14

-SAS "grace period" expires Oct. 1 (Renewal is necessary for SAS to function beyond that date)

-Contact Sue Fuss at 1-6111 or [sue\\_fuss@ndsu.nodak.edu](mailto:sue_fuss@ndsu.nodak.edu) for AutoCAD, SAS and Microsoft software licensing.

-Acrobat Online Forms software can be obtained for \$47 if purchased in 10-pack lots. ITS will collect names of staff wishing to become a part of a "10-pack" group. Contact Nancy Lilleberg 1-7140 or [nancy\\_lilleberg@ndsu.nodak.edu](mailto:nancy_lilleberg@ndsu.nodak.edu).

• **Custom Multimedia Graphics Services**

ITS has hired three student graphic designers through Technology Fee funds to help students and faculty with instructional graphics. The designers have such skills as free-hand drawing, custom charts or diagrams, video capturing and editing, optimizing graphics for the Web, animation or processes, graphics for Powerpoint presentations, custom photography, posters and custom clip-art. Contact Nancy Lilleberg at 1-7140 to receive this free service.

• **E-mail migration information sessions planned**

ITS has scheduled four upcoming sessions to help individuals currently using Prairie, Plains or Badlands as e-mail to make the switch to the new IMAP e-mail system before Nov. 1. The next session is scheduled for 1-1:30 p.m. Sept. 28, in the Memorial Union Meadowlark Room. Other sessions will be listed in the upcoming newsletter. Documentation also is available at [www.ndsu.edu/migration](http://www.ndsu.edu/migration).

## NDSU ITS to host PETSc Workshop

ITS will host a workshop by the developers of the Portable, Extensible Toolkit for Scientific Computation (PETSc) Oct. 17-18. PETSc is a suite of datastructures and routines for the scalable (parallel) solution of scientific applications modeled by partial differential equations. The workshop will be conducted using the resources of a new "Access Grid" node at NDSU. For details see [www.ndsu.nodak.edu/accessgrid/petsc.html](http://www.ndsu.nodak.edu/accessgrid/petsc.html) or contact Marty Hoag at 1-8639 or

## ITS adds new staff

A brief profile of each of these new staff members will appear in the upcoming ITS newsletter.

Rodney Cody	WWW Development Specialist
Yancy Funk	Applications Developer for Remedy Development
John Gieser	SENDIT Technology Services Help Desk Consultant
Deb Hegdahl	Cluster and Classroom Service Center Supervisor
Justin Pratt	Web Systems Administrator

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