

NDSU Center for Nutrition and Pregnancy approved

NDSU's new Center for Nutrition and Pregnancy (CNP) received formal approval from the State Board of Higher Education in December.

Operating through research grants, contracts from state, regional and federal grant agencies and the private sector, the center was developed to provide coordinated research activities focusing on the impact of nutrition during pregnancy on the health of the mother, fetus and offspring.

According to the center's investigators, research during the past 60 years has demonstrated that maternal nutrition has a dramatic impact on birth weights and long-term health and productivity in humans and animals. The CNP will perform interdisciplinary, cutting-edge research focused on the influence of under-nutrition, over-nutrition and specific nutrients on placental and fetal growth and development, maternal metabolic adaptations to pregnancy, and long-term health of the neonate and adult offspring. The studies will be conducted using several animal models, including adolescent or aged pregnancies, pregnancies of different fetal and maternal genotypes, and pregnancies with single or multiple fetuses.

"The overall goal is to understand how nutrition impacts prenatal and postnatal development," said Joel Caton, professor of animal and range sciences and co-director of the center.

The center's investigators comprise an established team of nutritionists and physiologists who are internationally recognized for their work in this area. They include Lawrence Reynolds, professor of animal and range sciences and center co-director who specializes in placental and maternal physiology; Caton, who specializes in nutritional physiology; principal investigator Dale Redmer, professor of animal and range sciences who specializes in cellular aspects of placental physiology; principal investigator Anna Grazul-Bilska, assistant professor of animal and range sciences who specializes in embryonic development; collaborator Stephen Ford, University of Wyoming Center for Fetal Programming, who specializes in placental and fetal physiology; collaborator Jacqueline Wallace, Rowett Research Institute, Aberdeen, Scotland, who specializes in nutrition and fetal and placental physiology; collaborator John Finley, USDA Human Nutrition Center, Grand Forks, N.D., who specializes in micronutrient physiology; and collaborator Josh B. Taylor, USDA Sheep Station, Dubois, Idaho, who specializes in nutritional physiology.

It is expected that the center will be able to compete for large grants from federal agencies, as well as industry grants, with the establishment of coordinated research activities among the team of investigators. It also plans to actively promote collaboration between researchers at NDSU, other universities, research institutions and agencies, and industry. Additionally, it is anticipated that the center will provide advanced training for faculty and students in existing academic units and research centers at NDSU.

Reynolds, Redmer and Wallace recently submitted a three-year, \$300,000 grant proposal, "Impacts of Age, Nutrition, and Number of Fetuses on Pregnancy in Adolescents: Placental Growth and Vascular Development," to the March of Dimes Foundation. A five-year, \$1.5 million expanded version of the proposal will be submitted in February to the U.S. National Institute of Health. Caton and Reynolds also have submitted a five-year, \$3.08 million pre-proposal, "Integrative Graduate Training in Nutrition and Pregnancy," to the U.S. National Science foundation. The pair recently was informed that of the 425 pre-proposals initially submitted, theirs was one of approximately 100 invited to submit a full proposal. *cont.*

Business Office closed Jan. 28

The Business Office will be closed Tuesday, Jan. 28, for financial aid disbursement. Departments are asked to hold their deposits until Wednesday, Jan. 29.

Blood drive scheduled for Jan. 15

The Office of Human Resources has scheduled an NDSU blood drive for 12:30-3:30 p.m. Wednesday, Jan. 15, on the west side of the Memorial Union. Donors must bring identification and a list of medications taken in the past month. To schedule an appointment, call Kelly Larson at 1-8961.

Next Issue

Publication date: Wednesday, Jan. 22
Submissions due: noon Jan. 15
Old Main 204
Voice: 231-8326
Fax: 231-1989
ellen.puffe@ndsu.nodak.edu
www.ndsu.edu/university_relations/news

"These are examples of the types of multidisciplinary and large 'center' grants for which the CNP enables us to be competitive," said Reynolds. "The results of these efforts will have a tremendous impact on human health and livestock productivity in North Dakota. In addition, the graduate and undergraduate training efforts of the CNP will provide outstanding career opportunities for current and future North Dakota citizens."

'Prairie Crosses' documentary wins national awards

Prairie Public Television's documentary "Prairie Crosses, Prairie Voices: Iron Crosses of the Great Plains" has been honored with two prestigious "2002 Communicator Awards." The national recognition includes the "Crystal Award of Excellence" in the broadcast television documentary category and an "Award of Distinction" in the creativity/videography category.

Timothy J. Kloberdanz, associate professor of sociology and anthropology, wrote and narrated the documentary. The program is the third in a series of collaborations between executive co-producers Bob Dambach, PPTV, and Michael Miller, NDSU Libraries bibliographer.

The "Communicators Awards" recognition is an international competition that recognizes outstanding work in communications. There were 3,242 entries from 48 states, the District of Columbia and nine other countries in video competition.

The program follows the history of traditional iron cemetery grave markers as the art form migrated from Germany to Russia and Ukraine and eventually to the Great Plains of the Dakotas, Kansas and Canada.

Major funding for the documentary was provided by the North Dakota Humanities Council, NDSU Libraries, the North Dakota Council on the Arts, which receives funding from the state legislature and the National Endowment for the Arts, and the members of Prairie Public Broadcasting. The program has been distributed to PBS stations across the nation.

Governor's office accepting applications for band, chorus members

Gov. John Hoeven has invited college musicians to apply for positions in the governor's official state band and chorus for 2003.

The Governor's Band and Governor's Chorus represent North Dakota's musical talent, achievement and commitment to community participation. The governor and first lady will select the band and chorus members from the applications received.

Interested college-aged musicians should submit a letter of application, references and a musical recording to the Office of the Governor, State Capitol, 600 East Boulevard Ave., Bismarck, N.D., 58501 by Friday, Jan. 31. Band and chorus members will be announced in February.

NDSU picture to hang in Morrill museum

A picture, a sense of history and the enthusiasm of two alumni have combined to help NDSU make a noteworthy connection with its roots.

A photograph of the university's Morrill Hall will soon hang in a museum honoring Justin Smith Morrill, the 19th century leader who was responsible for the establishment of the nation's land-grant higher education system. NDSU is North Dakota's first land-grant university.

The project is largely the effort of alumni Joseph and Eileen Larson, Portland, N.D. Last May, they traveled for the first time to the New England states, and visited the Morrill Homestead in Strafford, Vt. The 17-room "Gothic Revival" home designed and built by Morrill has been converted into a museum filled with mementos of his 44-year career as a senator and congressman.

"My grandmother was related to Justin Morrill, so I had an interest," said Joseph Larson, who graduated from NDSU in 1943 with a bachelor's degree in mechanical engineering and at age 85 manages the family farming operation. "I knew about the home because I had a newspaper clipping about it that I had gotten from the family. I was interested in finding out more about it."

The Morrill museum tells the story of the life of the chief sponsor of the Land Grant Act of 1862. The legislation was designed to create a college in each state that would provide a liberal and practical education for farmers, mechanics, artisans and laborers, and teach courses in science, agriculture, engineering and the classics. The act set aside vast tracts of federal land, 30,000 acres for each member of Congress, as an endowment for the colleges. Morrill also introduced a bill in 1890 to establish an annual cash subsidy of \$25,000 for each land-grant institution.

During their tour of the Morrill home, the Larsons saw a plaque that acknowledged colleges from across the country that had helped with contributions to renovate the building into a museum. NDSU was on the list.

"Of the schools, as I recall, there were only seven land-grant colleges, and NDSU was one of them," said Eileen (Dolve) Larson, a 1943 graduate in English and social studies. "The museum had pictures of a couple of the colleges, but not NDSU."

When their tour guide found out the Larsons are ardent supporters of the university, she asked if they could arrange for the museum to receive a photo of NDSU's Morrill Hall, which opened in 1923 as a building devoted to agriculture education and research.

"We thought how wonderful it would be to have a picture of NDSU in that museum," said Eileen Larson, noting they got in touch with university archivist John Bye upon their return. "We're proud and elated that people from all over the United States and the world could come to this museum and see a picture of our NDSU Morrill Hall."

The 8"x 11" photograph will soon be shipped to the Vermont museum. Matted in green and gold in a gold frame, the picture carries a metal nameplate that reads, "Justin Morrill Hall, North Dakota State University, Fargo, N.D."

"There is a sense of tradition," Bye said of working on the project. "Being a land-grant institution makes us unique or distinctive, and people can relate to that. NDSU is really for the benefit of not only our students, but all the citizens of the state."

"The photograph is a small way that NDSU honors the man who started the whole process of the land-grant idea," Bye said. "In that way, it is very important. For NDSU to have a spot in the Morrill home is quite appropriate."

The Larsons, meantime, are delighted the picture will soon be added to the museum's collection. "We'd like to go back sometime to see it," said Joseph Larson.

Varsity Mart Angel Tree results announced

NDSU faculty, staff and students contributed 100 books donated to the Holiday Clearing Bureau through participation in the Varsity Mart's Angel Tree giving program. According to Carl Wichman, trade book buyer, donations this year were up 63 percent over last year's total.

The Holiday Clearing Bureau gives the donated books as an add-on gift to children whose families receive other donated gifts. The children are able to choose their own books as long as the supply lasts.

People

Welch receives pharmacotherapy specialist certification



Justin Welch, clinical assistant professor of pharmacy practice, has received certification in pharmacotherapy by the Board of Pharmaceutical Specialties. Certified pharmacists are recognized for their advanced level of knowledge, skills and achievement.

Welch

Candidates must have practice experience with a substantial component of patient care activities in pharmacotherapy. Welch has a clinical practice at the Veterans Administration Hospital, Fargo, where he precepts pharmacy students.

Certification examinations consist of 200 multiple-choice questions. Re-certification testing is required every seven years to ensure that knowledge and skills are maintained at the specialty level. There are now 1,843 pharmacists nationwide who are board certified in pharmacotherapy.

Events

Tri-College libraries to present research discussion series

NDSU, in a cooperative project of the Tri-College University libraries, is one of 50 sites across the nation selected to present "Research Revolution: Science and the Shaping of Modern Life." The program consists of six film and discussion sessions on scientific discovery and the technological transformation in the world today.

"The six award-winning videos have been chosen specifically to make people ponder about six very important issues of modern day life," said Alan Stevens, life sciences librarian and a library coordinator for the project. "It will be exciting

to watch and to participate. They will make you both comfortable and uncomfortable as you view the films and take part in the discussions afterward."

The free sessions are scheduled for 1-3 p.m. Sundays, Jan. 26-March 2. The first two sessions, "Atomic Age" and "Robotics," will be held at the NDSU Main Library, with free parking in the T lot south of 12th Avenue North. The second two sessions, "Genetics" and "DNA Forensics," will be at Concordia College's Old Main Room 132. The final two sessions, "Global Warming" and "Biodiversity," will be held at Minnesota State University Moorhead's Comstock Memorial Union.

William Tomhave, professor and chair of mathematics and computer science at Concordia College, is the facilitator for the two-hour sessions. Stevens; Theresa Borchert, Concordia College library; and Larry Schwartz, MSUM library, will serve as the library coordinators for the project. The program is funded with a grant from the National Science Foundation through the American Library Association.

Details about the sessions can be found on links on the NDSU Libraries Web site at www.lib.ndsu.nodak.edu or the Tri-College University Web site at www.tri-college.org.

For more information, contact Stevens at 1-7965 or alan.stevens@ndsu.nodak.edu.

Diversity theatre group to perform

"Breaking Ice," a professional theatre performance group from the Pillsbury House Theatre, Minneapolis, is scheduled to perform "Under My Skin" at 7 p.m., Feb. 4, in the Memorial Union ballroom.

The group of five performers takes a fresh, enthusiastic approach to subjects such as diversity. Their mission is "to foster through the arts a better understanding of the self, other persons, cultural traditions and lifestyles." With a focus on issues of diversity, the troupe's performance will incorporate improvisation, music, poetry and dramatic scenes.

The event is being sponsored by Residence Life, Student Activities, Residence Hall Association, Office of Student Life, Cooperative Sponsorship, Multicultural Student Services, Women's Week Committee, Campus Attractions, YMCA of NDSU and the Office of Equal Opportunity.

For further information, contact Jennifer K. Krueger, Residence Life assistant director for leadership and community development, at Jennifer.Krueger@ndsu.nodak.edu or 1-6255.

Radiation safety short course scheduled

"Laboratory Use of Radioactive Material" is scheduled for 12:30-4:30 p.m. Friday, Jan. 24, in the Memorial Union Peace Garden Room.

The course is designed for new or potential users of radioactive materials in the laboratory or field application. It also serves as a refresher course for those currently using radioactive materials.

Topics include basic theory of radioactivity, biological interactions with radiation, radiation protection, minimizing exposure level, rules and regulations, and safe handling, decontamination and lab procedures. The instructor is William Diamanti, safety officer.

Course fee is \$25 for NDSU and cooperative agreement institutions, and \$50 for all others. To register, contact Diamanti at william.diamanti@ndsu.nodak.edu or 1-9535. Participants should bring a scientific calculator.

Shorts and Reminders

Development Foundation grant deadline reminder

Faculty and staff are reminded that the deadline for the NDSU Development Foundation's three available grants, and a competitive grant to support agricultural research efforts, is Friday, Jan. 17.

The Centennial Endowment Fund can provide maximum awards of \$5,000, with a total of \$22,750 available; the NDSU Development Foundation Board of Trustees Endowment can provide maximum awards of \$1,000, with a total of \$4,700 available; and the NDSU Development Foundation Libraries Endowment has \$3,700 available. There is a total of \$8,000 available from the Gordon A. Larson Research Foundation for agricultural research for the 2002 academic year.

Application forms are available by sending e-mail to joann@ndsualumni.com. Applicants will be notified of funding decisions prior to April 15.

Abuse counselor available

Counseling and Disability Services reminds faculty, staff and students that Rape and Abuse Crisis Center counselor Melissa Longtine is available for counseling services on Mondays from 8 a.m.-5 p.m. To schedule an appointment, call 1-7671. Longtine also is available for educational presentations on sexual assault or domestic violence. To schedule a presentation, contact her at the Rape and Abuse Crisis Center at 293-7273.

Union Food Court specials for Jan. 15-22

Soup of the day

Wednesday: zesty Italian and knoepla
Thursday: tomato and southwestern chicken chili
Friday: minestrone and beer cheese
Monday: cream of broccoli and turkey rice
Tuesday: beer cheese and chicken noodle
Wednesday: cheeseburger and vegetarian vegetable

The Corner Deli

Wednesday: roast beef
Thursday: turkey club
Friday: corned beef
Monday: turkey
Tuesday: beef and cheddar wrap
Wednesday: ham

A La Carte

Wednesday: popcorn chicken wrap
Thursday: chicken fried steak
Friday: chicken chimichanga
Monday: hand-carved turkey
Tuesday: taco salad
Wednesday: chicken parmesan

Pizza Express

Wednesday: meatball
Thursday: southwestern chicken
Friday: Red River
Monday: once around the kitchen
Tuesday: Tuscany
Wednesday: creamy garlic chicken

The Union Grab and Go

Wednesday: roast beef
Thursday: beef broccoli
Friday: roasted turkey
Monday: meat loaf
Tuesday: spaghetti and meatballs
Wednesday: chicken Szechwan

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

Positions Available

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

Administrative Secretary
NDSU Research Foundation/Office of Technology Transfer
\$22,000+/year
Jan. 23

Custodian/#640
Physical Plant
\$16,752+/year
Jan. 23

P.M. Cook/#1034
12 months; 40 hours/week
11 a.m.-7:30 p.m.; M-F; summer hours may vary; weekends as necessary
Dining Services-RDC
\$9.25/hour
Open until filled

Grant and Contract Officer
Restricted Fund Accounting
\$30,000+/year
Jan. 17

Director/#546
International Programs
Salary commensurate with experience
Jan. 20

International Student Adviser/Admissions Specialist/#3742
Office of International Programs
\$25,000+/year
Jan. 23

Licensing Associate
Sponsored Programs/Research Foundation
Competitive and commensurate with education and experience
Jan. 31

Director/#590
Financial Aid
\$50,000 minimum/year
Feb. 15

Sign Language Interpreter/Student Services
(Hours negotiable)
Mathematics/Financial Aid
Salary commensurate with education/experience
Open until filled

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

Research Opportunities

The Office of Sponsored Programs Administration announces the following funding opportunities and deadlines. Refer to the Web site or contact person provided with each listing for more information. For other grant opportunities, see www.ndsu.nodak.edu/research/funding/ or you may conduct an online funding search via SPIN, available at www.ndsu.nodak.edu/research/funding/spinplus.shtml.

Environmental Education

The Environmental Protection Agency requests applications for the 2003 fiscal year Environmental Education Grant Program. The program supports projects that design, demonstrate or disseminate environmental education practices, methods or techniques including the assessment of environmental and ecological conditions or specific environmental issues or problems. Because the 2003 federal budget is not yet final, future funding for the program is uncertain. In the past, approximately \$3 million has been available for the program. A 25 percent cost share is required and proposals are due by Friday, Feb. 14. For more information visit www.epa.gov/enviroed/grants.html. (Federal Register, Dec. 19)

Image-Guided Health Interventions

The National Institute of Biomedical Imaging and Bioengineering (NIBIB) invites applications for research and development in image-guided interventions including biopsies, surgery and image-guided therapies. The goal is to create new technology in areas related to image-guided interventions because of the need for minimally invasive, image-guided treatment of disease and injury. The NIBIB intends to commit approximately \$5 million in fiscal year 2003 to fund up to 25 new awards. A research project grant applicant may request a project period of up to five years. An exploratory or developmental grant applicant may request a maximum budget of \$275,000 and a project period of up to two years. Eligible organizations include for-profit or nonprofit organizations; public or private institutions, such as universities, colleges, hospitals and laboratories; units of state and local governments; eligible agencies of the federal government; and domestic or foreign institutions. Applications

are due by Tuesday, March 25. More information is available at <http://grants.nih.gov/grants/guide/rfa-files/RFA-EB-03-008.html>.

Agricultural Marketing

The U.S. Department of Agriculture is accepting applications under the Federal-State Agriculture Marketing Improvement Program for conducting studies or developing innovative approaches related to marketing U.S. food and agricultural products. Areas of particular interest include the development and testing of new or more efficient methods of processing, packaging, handling, storing, transporting and distributing food and other agricultural products; and assessing customer response to new or alternative agricultural products or marketing services, and evaluating potential opportunities for U.S. producers, processors and other agribusinesses in both domestic and international markets. It is expected that approximately \$1.3 million will be available. Proposals are due by Friday, Feb. 14. For more information, contact Janise Zygmunt at (202) 720-2704. (Federal Register, Nov. 21)

Cognition and Student Learning

The U.S. Department of Education's new Institute of Education Sciences invites applications for research projects to improve student learning by bringing advances in cognitive science and neuroscience to bear on significant education problems. The IES requests applications that address basic or higher-order cognitive processes and link those processes to improving important student outcomes related to such national problems as underachievement in reading, mathematics, science, writing and English language literacy. Basic and higher-order cognitive processes include attention, working memory, learning processes (acquisition and retention), storage in and retrieval from long-term memory, interference and inhibition, executive function and monitoring, memory strategies, meaning extraction, inference and critical thinking, analogical reasoning and non-verbal reasoning. Letters of intent are due by Wednesday, Jan. 29, with final applications due by Friday, March 21. See <http://ies.asciences.com> for RFA NCER-03-03.

Calendar

January

Through Feb. 2—Theater design and technology exhibition, Reineke Visual Arts Gallery. Reception 7:30 p.m., Saturday, Jan. 18. Call 1-8360 for more information.

- 18 Women's basketball vs. UND, 6 p.m., Grand Forks
- 20 Physics—Colin Denniston, Johns Hopkins University, "Dynamically Controlled Interfaces in Complex Fluids," 11 a.m., South Engineering 208
- 24 Wrestling vs. South Dakota State, 7:30 p.m., Bison Sports Arena
- 26 NDSU faculty brass quintet concert, 2 p.m., Beckwith Recital Hall. Free.
- 28 Wrestling vs. Augsburg College, time to be announced, Bison Sports Arena
- 29 Wireless networking open forum sponsored by Information Technology Services, agriculture communications and the Computing and Information Technologies Planning and Goals (CITPG) committee, 9 a.m., Memorial Union Prairie Rose Room
- 31 Women's basketball vs. University of South Dakota, 6 p.m., Bison Sports Arena
- 31 Men's basketball vs. University of South Dakota, 8 p.m., Bison Sports Arena

February

- 1 Women's basketball vs. University of Northern Colorado, 6 p.m., Bison Sports Arena
- 1 Jazz Festival Concert, 7 p.m., Festival Concert Hall. Tickets are \$5 for adults, and \$2 for children, students and seniors.
- 1 Men's basketball vs. University of Northern Colorado, 8 p.m., Bison Sports Arena
- 4-26 Eric Johnson and Jay Pfeifer exhibition, Reineke Visual Arts Gallery. Reception 7:30 p.m. Saturday, Feb. 8. Call 1-8360 for more information.
- 4 "Under My Skin" by the Breaking Ice theater performance group, 7 p.m., Memorial Union Ballroom
- 6 Women's basketball vs. Augustana, 6 p.m., Bison Sports Arena
- 6 Opera workshop performance, 7:30 p.m., Beckwith Recital Hall. Free.
- 6 Men's basketball vs. Augustana, 8 p.m., Bison Sports Arena
- 7 Theater—"Dramaturgical Theatre Experience," 8 p.m., Beckwith Recital Hall. Tickets are \$2.
- 12 Wrestling vs. Northern State, 7 p.m., Bison Sports Arena
- 20 Women's basketball vs. University of Nebraska-Omaha, 6 p.m., Bison Sports Arena

- 20 Chamber Music Recital: Andy Froelich, professor of music, 7:30 p.m., Beckwith Recital Hall. Free.
- 20 Men's basketball vs. University of Nebraska-Omaha, 8 p.m., Bison Sports Arena
- 21 University Chorus and Brass Ensemble concert, 7:30 p.m., Festival Concert Hall. Tickets are \$5 for adults, and \$2 for children, students and seniors.
- 22 Lively Arts Series—Kartik Seshadri, sitar player, 7 p.m., Festival Concert Hall. Tickets are \$13 for adults, \$10 for senior citizens and NDSU employees, \$7 for non-NDSU students and children, and \$6 for NDSU students, and are available at the Memorial Union Ticket Office.
- 22 Wrestling vs. St. Cloud State, 7:30 p.m., Bison Sports Arena
- 24 Varsity Band, jazz combos and jazz lab band concert, 7:30 p.m., Festival Concert Hall. Tickets are \$5 for adults, and \$2 for children, students and seniors.
- 27 Women's basketball vs. St. Cloud State, 6 p.m., Bison Sports Arena
- 27 Staff free preview night of "A Midsummer Night's Dream," 7:30 p.m., Askanase Auditorium. Call 1-9442 for tickets.
- 27 Men's basketball vs. St. Cloud State, 8 p.m., Bison Sports Arena
- 28 Little Country Theatre—"A Midsummer Night's Dream," by William Shakespeare, 7:30 p.m., Askanase Auditorium. Tickets are \$10 for adults, \$8 for seniors and students, and \$4 for NDSU students.

March

- 1 Women's basketball vs. UND, 6 p.m., Bison Sports Arena
- 1 Men's basketball vs. UND, 8 p.m., Bison Sports Arena
- 1-30 Juried high school art exhibition, Reineke Visual Arts Gallery. Reception-1 p.m., awards-1:30 p.m., Saturday, March 1.
- 2 Wrestling—North Central Conference championships, times to be announced, Bison Sports Arena
- 2 Little Country Theatre—"A Midsummer Night's Dream," by William Shakespeare, 2 p.m., Askanase Auditorium. Tickets are \$10 for adults, \$8 for seniors and students, and \$4 for NDSU students.
- 6-8 Little Country Theatre—"A Midsummer Night's Dream," by William Shakespeare, 7:30 p.m., Askanase Auditorium. Tickets are \$10 for adults, \$8 for seniors and students, and \$4 for NDSU students.

April

- 29 Staff free preview night of "subUrbia," 9 p.m., Askanase Auditorium. Call 1-9442 for tickets.

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