# IT'S HAPPENING AT STATE

September 1, 1999
NDSU

### Audits received on Physical Plant, changes to come

President Joseph A. Chapman is ordering changes in procedures, better training for employees and stricter internal controls within NDSU's Division of Business and Finance, specifically the Physical Plant department. The action is based on two auditors' reports received Aug. 23.

The reports were triggered last spring by allegations of misuse of state property, improper disposal of surplus property and use of state resources for personal gain. On Chapman's second day as president last June, he asked the State Auditor's Office to investigate and ordered NDSU's own internal auditor to do the same.

Chapman said he was relieved that neither report found anything on a scale to recommend criminal action against anyone, or that there were grounds for immediate employee dismissal or other serious job action. However, he said he was troubled by conclusions that many policies were unknown to workers and that certain practices, such as borrowing state property for personal use, were considered by some as a 'perks' of their job.

"There seems to have been a climate in which some employees felt intimidated. It seems there was work being done outside of normal job assignments. It seems there may have been favoritism in certain areas or lack of support in other areas. I think the important thing is we need to have the attitude of the employees addressed so that we get back to providing service," Chapman told reporters during a news conference Aug. 24. "The important message here is we are not going to tolerate this kind of behavior in the future. We will have procedures and sanctions in place to show that we mean that."

The two auditors' reports list many recommendations. Chapman directed Dick Rayl, vice president for business and finance, to report back within 30 days with a detailed plan that addresses the recommendations and has measurable outcomes to assure that progress is made in all areas of concern.

Chapman noted it was the good intentions of many NDSU employees which prevented serious fraud from occurring, since policies and practices allowed for the possibility of fraud. "They (Physical Plant personnel) have tremendous pride in what they do. These are good people who are very serious about their commitment to the university and their obligation to the state. We don't want to lose sight of the fact there are a lot of very good people in the Physical Plant department," he said.

Still, changes are needed, he said, and changes will occur. "We're simply doing prudent fiscal and management practices," Chapman said. "All the divisions within the university will be periodically audited and monitored to make certain we are in compliance with state and university regulations and policies."

In addition, Chapman said a regular series of reminders and information about policies will appear in It's Happening and training sessions will be held on campus.

# Administrative offices closed, no classes Sept. 6

Administrative offices will be closed and no classes will be held Monday, Sept. 6, in observance of Labor Day. Classes and regular 8 a.m.-5 p.m. office hours resume Tuesday, Sept. 7.

Business Office to be closed Sept. 7 The Business Office will be closed Tuesday, Sept. 7, for financial aid disbursement. Departments are asked to hold their deposits until Wednesday, Sept. 8.

#### Next Issue

Publication date: Wednesday, Sept. 8 Submissions due: noon Sept. 2 Old Main 204

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### Chapman's statement on audit findings

The complete text of President Chapman's opening statement to the Aug. 24 news conference regarding the audits of the Physical Plant follows.

"On my second day as NDSU's president, I said that as a public institution, North Dakota State University is rightfully held to the highest standards of accountability. Even the appearance of impropriety must be avoided.

"With those words, I asked the State Auditor's Office to look into troubling allegations being made about practices within NDSU's Division of Business and Finance and, specifically, the Physical Plant department. At the same time, I also directed NDSU's own internal auditor to look into the matter. Yesterday, I received those reports and today I am directing that certain actions be undertaken.

"But before I get into those specific responses, let me first say that while I am relieved that neither report found anything on a scale to recommend criminal action against anyone, or that there were grounds for immediate employee dismissal or other serious job action, I am troubled by conclusions that many policies were unknown to workers and that certain practices, such as borrowing state property for personal use, were considered by some as 'perks' of their job.

"The two auditors' reports confirm our earlier impressions that conditions existed which allowed for abuse. These conditions are going to change. One of our first steps in this was the assignment of NDSU's internal auditor to my office. Today, armed with the findings and recommendations from both auditors' reports, I am directing Vice President for Business and Finance Dick Rayl to report back to me within 30 days with a detailed plan which addresses all findings and recommendations raised in the reports. This plan should have measurable outcomes to assure that we are making progress in all areas of concern.

"The auditors offer many recommendations on how we track jobs, internal billings and equipment assignments.

- I want to know that these recommendations will be put into practice.
- I want to know that supervisors receive adequate training on why we have policies so that they are used in the day-to-day operations of the department.
- I want to be assured that the new surplus property procedures recently put in place are understood by all parties.
- I want to know if the Physical Plant structure in place now is the best it can be.
- And I want all segments of the campus to understand that state property is not to be used for personal purposes.
- "I think it is important to note that just because conditions existed which could have allowed serious fraud to occur, it was the good intentions of so many NDSU employees which prevented that from happening. Still, changes are needed and will now happen."

### Initial enrollment figures look promising

If campus seemed a little busier when classes began on Aug. 24, you were right. Initial enrollment projections show NDSU should have more than 9,700 students this academic year.

"We're very pleased," said President Joseph Chapman on the first day of classes. "It's possible we'll break records, but we don't yet know that for sure. Our enrollment will go up from where we are now because we'll add part-time students, night students and others."

As of Thursday, Aug. 26, there were 9,593 students, not including cooperative education students, which is an increase of 171 over last year on the third day of classes. Official enrollment figures will be compiled at the end of the third week of the fall semester.

Currently, the projections indicate the freshman class will be about 75 students larger than a year ago. Coupled with an increase of 98 incoming students seen from fall 1997 to 1998, that is an indication that an earlier decline in the number of freshmen students has been reversed.

Chapman attributed the increase to the quality of NDSU's programs and its marketing efforts. "We're getting the word out. We're tailoring our programs and trying to address the needs of students. We're doing a full range of student-related activities," he said.

George Wallman, vice president for student affairs, said, "All of this is remarkable given selective admission, core course requirements and a strong economy. The increase in the freshmen class is very significant because with our increased student retention comes a four-to-five year impact of having more students."

In 1998, NDSU's official enrollment was 9,626 students, including those in cooperative education placements.

# Physical Plant alerts campus to need for shared leave

The Physical Plant has an employee currently on unpaid leave due to illness who is eligible for the Shared Leave program. University employees are asked to help if possible.

Donette Peterson, loss prevention specialist, has exhausted her annual leave and sick leave. NDSU Policy Manual Section 147 states that an individual may donate a portion of his or her annual leave under the following guidelines:

- If you choose to donate annual leave, you must donate it in full-hour increments and you must retain a leave balance of at least 40 hours for your own use.
- If you choose to donate sick leave, you can donate up to 5 percent of your accrued leave hours in full-hour increments.

Anyone who would like to donate hours should contact Cheryl Cicha at 1-7912. If necessary, leave voice mail stating your name and building. Forms will be forwarded to you.

# Two NSF grants bring latest technology, instruction to NDSU

Researchers at NDSU are beginning work on projects funded by two National Science Foundation grants that will bring the latest technology and instruction techniques to campus. One project is a joint effort with Montana State University through NSF's Experimental Program to Stimulate Competitive Research (EPSCoR). The second is a national effort teaming plant scientists from across the country. In total, NDSU's share of the grant money exceeds \$725,000.

The goals of both research projects are discovery and education. But the researchers also hope applications will be forthcoming that will provide solutions to agronomic problems such as plant disease or herbicide resistance.

#### A virtual education center

The NSF-EPSCoR project will improve NDSU's research infrastructure through the addition of an automated DNA sequencer and DNA microarray equipment.

"These are absolutely the most modern tools being used in plant genome research," said Phil McClean, professor of plant sciences and one of the principal investigators in the project. "NDSU is the first university in the region to get this equipment."

An automated DNA sequencer can read the code or sequence of genes important for crop productivity and allow researchers to make comparisons and selections among genes. Similarly, microarray equipment allows researchers to study how genes confer plant traits—but this equipment allows researchers to study many genes simultaneously. Working with McClean in this phase of the project are Shahryar Kianian, assistant professor of plant sciences, and Jim Lorenzen, associate professor of plant sciences.

The project's second objective is to create a resource on the Internet for students. Serving as a repository of information on all aspects of plant genetics, the site will contain source materials for many of the plant genetics courses taught at NDSU and Montana State University. Even though the site will be designed with student needs in mind, McClean said it will be accessible by anyone with an interest in plant genomics. He will direct the web development efforts at NDSU for this project.

The site also will allow students to interact with international experts in plant genomics. "We want to make this Web site internationally accessible because the more people we can bring to the site, the more beneficial it will be for NDSU and MSU students," McClean said.

In addition, the research involves continuing the development of an educational tool called the Virtual Cell, which is an Internet-based, interactive game. Students from around the world can log on and play this game at the same time. McClean, Brian Slator, associate professor of computer science, and Alan White, chair of botany/biology, are collaborators on this component.

While the Virtual Cell may represent a futuristic look at higher education, McClean says conventional teaching methods remain as practical as ever. "We are not just sending our students off on their own into cyberspace," he said. "This program is instructor guided and fits within the context of existing classes."

#### Project to map wheat genes

The second NSF project involves 14 researchers from universities and government agencies around the country who will use technological advances to discover more about the function of genes and the potential for their manipulation. NDSU's representative on this team is Kianian, who specializes in wheat germ plasm enhancement.

This project will sequence and map 10,000 wheat genes to each of the 21 chromosomes. Kianian's role is to locate genes and determine the function of those genes, as it relates to plant fertility.

"It is fortuitous that both NSF grants came in at the same time," said Kianian, who will use the DNA sequencer and the microarray equipment to study the genes in wheat and durum. "Our goal is to make NDSU one of this nation's centers of excellence for plant genomics, and these grants move us along that road."

As with the other NSF-funded research effort, Kianian said the gene mapping project has a major educational component as well. He said graduate students from NDSU and elsewhere will be taught by experts in their fields and be exposed to a diversity of experimental techniques due to the number of researchers collaborating on the effort.

# Memorial Union Scheduling Office has new name

The NDSU Memorial Union Scheduling Office has been renamed "Reservations and Event Services." The change is intended to give a more concise and less confusing title for the services available to students, faculty and staff.

"The previous name was intended to schedule meeting rooms in the Memorial Union," said Jodi Arzt-Buresh, reservations and event services manager. "But we provide more services than just scheduling meeting rooms. We provide the users of the facility the ability to promote their organization or event by assisting with contact table space, meal or refreshment breaks, technical assistance and other support necessary to plan a successful event."

Arzt-Buresh said the previous title was confusing to some students who wanted to change their academic schedules.

For assistance with events, contact Susan Peterson, reservations and event services assistant, at 1-8417, or by e-mail at *speterso@gwmail.nodak.edu*, or Arzt-Buresh, at 1-9447, or by e-mail at *jburesh@gwmail.nodak.edu*.

### Conversion to broadbanding continues

New State Board of Higher Education policies affecting staff pay changes went into effect July 1. The bulk of the job category to job family changes took place Aug. 1, with minor editing changes continuing throughout August.

A Web site containing job family specifications and other broadbanding information is pending approval by the Human Resource Council of the North Dakota University System. As soon as that site and its contents are approved, employees and supervisors will receive notification of job family assignments.

Next phases will include functional title guidelines and a refinement of salary survey data.

# NDSU Research Foundation announces request for proposals

NDSU faculty are encouraged to design research projects in anticipation of the Oct. 1 application deadline for the Research Development Support Program competition sponsored by the NDSU Research Foundation.

The foundation receives revenue from patents, royalties and technology transfer generated by NDSU research activity. In the fall of 1997, it initiated the Research Development Support Program, resulting in nine small grants in each of the past two years designed to stimulate additional scholarly activity by assisting NDSU faculty in the conduct of their research plans.

In fall 1999, the foundation will hold its third round of competition. NDSU employees holding faculty rank—tenured, tenure-track or special long-term appointment as it pertains to experiment station and extension employees, are eligible to apply. There are no restrictions regarding a faculty member's former grant activity or length of time at NDSU.

Detailed application guidelines are available at www.ndsu.nodak.edu/ndsu/sizer/RDSPgrant.html.

Proposals must be submitted to the Office of Research Administration by Oct. 1. Awards will be announced following a competitive merit review process and will be made available by late December. Once awarded, funds will be available for one year.

Applicants may request up to \$5,000 for expenses directly related to a research project. Several project categories will be funded in this program:

- Innovation Awards are for research and development projects that anticipate future patent or copyright activity and have future commercial potential.
- Investment Awards are for preliminary research projects designed to lead to larger projects funded by larger grants from outside sources.
- Impact Awards are for small finite research projects that will have a relatively large impact for a small amount of funds and can be completed with the proposed budget in one year.

# Nominations sought for Tapestry of Diverse Talents

Nominations are being sought for the Tapestry of Diverse Talents. The tapestry is a pictorial mosaic comprised of individuals who reflect the cultural pluralism of NDSU. It is located across from the second floor administrative office in the Memorial Union. Individuals are recognized at the end of each semester and their photographs are displayed for approximately one year.

Nominees may be NDSU students, faculty, staff and alumni. Candidates should be people who have contributed to the multiculturalism of NDSU, who promote multiculturalism and contribute to intercultural awareness.

Letters of nomination will be accepted until 5 p.m. Friday, Oct. 22. The letters should provide specific examples of how the nominees meet the requirements. They may be sent via campus mail to: Robb Ryan Q. Thibault, 360 Memorial Union or by e-mail to *thibault@plains.nodak.edu*.

The fall induction ceremony is scheduled for Friday, Dec. 10, in the Alumni Lounge of the Memorial Union. For more information contact Thibault at 1-8566.

# Beilstein Crossfire database trial continues at Library

The NDSU Libraries, with the assistance of the chemistry department and funding from the NDSU Development Foundation, is once again providing access to the Beilstein Crossfire database.

This database is the on-line equivalent of the Beilstein Handbook—a standard reference work for organic chemistry—and contains extensive information on nearly 8 million organic substances covered in chemical literature from 1771 to the present. The database is the most complete collection of structures, properties and reactions with references to the literature in organic chemistry. Chemical structure, substructure, reaction, property and keyword searches can be combined to create sophisticated queries.

Using the database requires a client. Follow the directions for downloading the Beilstein Commander client software at the secure web page <a href="http://dp3.lib.ndsu.nodak.edw/beilstein/">http://dp3.lib.ndsu.nodak.edw/beilstein/</a>.

## People

# Cole retires after 21 years of helping students, improving campus life



Lillian Cole, a counselor in Counseling and Disability Services, retired Sept. 1. She will continue there part-time to help train her replacement and provide limited counseling services.

Cole

Cole joined what was then the Counseling Center after earning her master's degree in counseling and guidance at NDSU in 1978.

Since then she's dedicated herself to making the university a better place to study and work.

Her main focus has been career counseling for students. During her 21 years of service, she's assembled a comprehensive career resource center with information that helps students determine potential occupations. She's helped thousands of students with self-assessment, career planning and personal counseling.

"I have loved what I've done, I couldn't have gotten into a better place," she said. "What I would wish for my students is that they have an experience like I have had."

Cole's contributions have gone well beyond helping individual students. She was a member of several graduate committees, mentored graduate students in counseling and guidance, taught Education 124 (career planning), was pivotal in establishing the Staff Senate, helped develop the academic forgiveness policy for students and counseled staff and faculty on retirement issues.

She also has done much for returning adult learners on campus. She worked to strengthen the organization for non-traditional students and helped establish a lounge for them in the Memorial Union. Every Friday morning she's hosted "Dropin Coffees" for returning adult learners.

Gary Narum, associate vice president for student affairs, was director of the counseling center in 1978 and hired Cole. "In terms of all the students she's worked with in career counseling and other activities, she's had a huge, almost immeasurable impact," he said. "Her work with non-traditional students has truly been exemplary, and has filled a void here at NDSU."

In 1994 Cole received an administrative/professional staff recognition award. The award recognizes outstanding achievement on the job, exceptional contributions toward the effectiveness and efficiency of NDSU, outstanding service to other employees, students or visitors, and distinguished efforts in staff development or recognition.

"She has a passion for her work that is unparalleled," said Peggy Gaynor, director of counseling and disability services. "She provides a very graceful, mature presentation that engenders confidence in students, faculty and staff alike. We will miss her."

A reception for Cole is scheduled for Tuesday, Sept. 7, from 2-4 p.m. at the Alumni Center. A short program is planned for 3 p.m.

### Botany professor Galitz retires



Donald S. Galitz, professor of botany, retired in July after 31 years of service to NDSU. He had a dual appointment in the Department of Botany and the Experiment Station. He will continue half-time during the 1999-2000 academic year as co-director of the Group Decision Center.

Galitz

Galitz joined the NDSU faculty in 1968. He has taught introductory plant physiology, tissue culture, general plant metabolism, nitrogen metabolism, general biology and ethics in biotechnology. "My greatest satisfactions have come from teaching and the accomplishments of students I've had in class," he said.

In his Experiment Station appointment, Galitz has conducted research in nitrogen metabolism in plants and has been part of a team dedicated to solving problems with the perennial weed leafy spurge.

Galitz has served on numerous committees at NDSU, including the Radiation Safety Committee, which he's been part of since he joined the faculty and has chaired for over 20 years. He is a member of the American Society of Plant Physiology, the Botanical Society of America and several other professional organizations. In 1997 he received the Samuel Postlethwait Service Award from the Teaching Section of the Botanical Society of America.

Galitz earned his bachelor's degree in biology and chemistry from Monmouth College, Monmouth, Ill., and his master's degree and doctorate in agronomy from the University of Illinois.

### Chang receives award, presents papers

Sam K. C. Chang, professor of food and nutrition with a tenure in the cereal science department, received the 1999 Professional Achievement Award at the annual meeting of the Chinese American Food Society in Chicago in July.

Chang and his technician David Cai, and graduate students Yumei Cao, Gan Su and Home-jer Hou presented four research papers related to the chemistry and utilization of food soybean at the annual meeting of the Institute of Food Technologists in Chicago this summer.

Chang is scheduled to present a paper at the International Oriental Foods Conference in Beijing, China, in October. He also is planning to visit soybean food industries in Slovakia in November.

He joined the faculty at NDSU in 1984 and was the coordinator for the interdisciplinary undergraduate food science program from 1993-1997. Chang received his doctorate in food science and technology from the University of Nebraska-Lincoln. He has published and presented more than 100 papers nationally and internationally, and has assisted plant breeders in the release of six bean varieties.

It's Happening, September 1, 1999

# Chapman names Venette to head agricultural academic programs



Venette

A veteran faculty member and researcher has been named associate dean for academic programs in North Dakota State University's College of Agriculture. James Venette, an NDSU faculty member for 23 years, will assume his new duties Sept. 1 as leader of the university's academic agriculture programs. As such, he joins Vice President, Dean and Director for Agricultural Affairs Patricia

Jensen and the heads of the NDSU Extension Service and the North Dakota Agricultural Experiment Station as senior managers of the university's agricultural efforts.

"I welcome Jim as part of the agricultural administration team," said Jensen. "His enthusiasm for students and faculty, as well as the depth of his knowledge of NDSU, will serve us well. His vision for NDSU was well articulated during his interviews and the students with whom he met placed their confidence in that vision."

Venette is widely known for his scientific work as a pathologist and for his dedication to students, which has included not only teaching and mentoring, but extracurricular activities like judging high school science fairs.

"I want to thank my colleagues, staff and my students for their support during the last 23 years," said Venette. "I look forward to working with the agricultural team and the entire faculty of the College of Agriculture in supporting our dean's efforts to provide relevant programs for traditional and nontraditional students."

In making the appointment, President Joseph A. Chapman said Venette's strong rapport with students is a good match with the university's efforts to make students aware of the entire spectrum of agricultural program offerings, from traditional studies to newer areas such as biotechnology and food safety.

"There are many job opportunities for students of agriculture," said Chapman. "Dr. Venette's selection during this national search was made because throughout his career he has demonstrated strong leadership traits, outstanding teaching ability and both faculty and students find they can depend on his advice."

Venette is a professor of plant pathology who last year also served as interim chair of the plant pathology department.

# Web instruction research group wins top paper award

The NDSU Worldwide Web Instructional Committee won an Outstanding Paper award at the 11th Annual World Conference on Educational Multimedia, Hypermedia and Telecommunication. The international conference is the largest of its kind devoted to research on the use of technology in education.

The instructional committee is an ad hoc collection of faculty from different disciplines and colleges at NDSU who conduct research into advanced approaches for developing virtual educational environments. Financed primarily by the National Science Foundation, its members are involved in a range of projects for creating immersive, Internet-based "worlds" where students learn by exploring and doing.

The paper, "Virtual Environments for Education at NDSU," gives an overview of the committee's research projects and describes the many common elements that bind the individual projects into a coherent set. It was co-written by Brian Slator and Paul Juell, associate professors of computer science; Phil McClean, professor of plant sciences; Bernie Saini-Eidukat, assistant professor of geology; Don Schwert, professor of geology; Alan White, chair and associate professor of botany; and Curt Hill, Valley City State University computer science department.

A revised and expanded version of the paper has been accepted for publication in the Journal of Network and Computer Applications, an Academic Press journal, where it will appear in the fall.

Slator also has been invited to serve as one of four panel members on a joint international videoconference with the PBS Adult Learning Service scheduled for 1:30-3 p.m. Oct. 7.

The videoconference will broadcast via satellite and streaming video on the web from Jacksonville, Fla., to colleges and universities in Canada, the United States and Mexico; about 300 institutions will participate. The videoconference topic is "Exemplary Models of Web-based Learning." Slator will describe the instructional committee's virtual environments for education projects, with special emphasis on the simulations in the science and mathematics fields. For more information on the instructional committee and the PBS videoconference, see <a href="https://www.ndsu.nodak.edu/wwwic/">www.ndsu.nodak.edu/wwwic/</a> and <a href="https://www.ndsu.nodak.edu/wwwic/">www.pbs.org/</a> als/exemplary/.

### Peterson published in research journal

Larry R. Peterson, chair and professor of history, recently had his article, "Is the Family Disappearing? Northern Great Plains vs. National Trends in Family Structure," published in the spring 1999 edition of Great Plains Research.

Peterson's study compared recent trends in family structure between the nation and the northern Great Plains states of Montana, Nebraska, North Dakota and South Dakota, using census data from 1950 to 1990. He focused on patterns in two-parent and non-two parent families, and on married women in the labor force. Peterson examined the data to evaluate trends in the Northern Great Plains states to determine if they matched the national trends that American families have been declining since 1960. His analysis of family structures measured by the census showed similar patterns among the four states, the region and the nation.

He also analyzed of the rate of change from each previous census from 1930-1990. The strong correlations in rates of change among the states, the region and the nation suggested that the experiences of families in the northern Great Plains states lagged rather than differed significantly from national trends.

Peterson concluded that families in the Northern Great Plains states are changing in the same ways and at the same rates as families in the rest of the nation. Their experiences are not considerably different from families in California or New York. He disagrees with the theorists who say the movement away from the traditional family as a two-parent household indicates a decline. Those theorists, in Peterson's view, have limited their definition of a family and underestimate how non-traditional families might operate and nurture the people in them.

Peterson received his bachelor's degree in English from Moorhead State University and his doctorate in American Studies from the University of Minnesota. He has been at NDSU since 1977. He has been doing research on long-term trends in the history of families on the Northern Great Plains since 1987.

## NDSU/USDA poster wins exhibit award

A poster presented at the 53<sup>rd</sup> annual International Microscopy Society of America meeting in Portland, Ore., in August, has received the society's prestigious Traveling Exhibit award. The poster was presented by Thomas Freeman, professor of plant pathology, Dennis Nelson and Jim Buckner, USDA-ARS, Biosciences Research Laboratory, and Glenn Jackson, USDA-ARS, Western Cotton Research Laboratory, Phoenix. The international award was presented to the top five posters in both the biological and physical science divisions. The biological/physical science division consisted of 300 presenters from 23 countries.

The poster, "Wax Particle Morphology and Ultrastructure of Two Species of Adult Insects: Prey and Predator," compared the origin, structure and chemical composition of waxes as well as the ultrastructure of wax glands of the silverleaf whitefly, an important agricultural pest, with one of its natural predators, the dustywing insect. The award-winning posters are circulated to regional microscopy meetings and are available upon request to other societies and universities for one year.

# Ziejewski helps develop new soccer protective headgear

Mariusz Ziejewski, associate professor of mechanical engineering and director of the impact biomechanics laboratory, recently received grants totaling more than \$50,000 to help test and develop a new headgear for soccer players.



Students Eno Yliniemi and Vijesh Unnikrishnan work on the soccer head gear with Ziejewski in the lab.

The project began when three men in St. Paul, Minn.. started looking for protective headgear for their children to wear while playing soccer. Two of their sons had suffered

concussions during soccer games, and they felt the boys needed protection from further head injuries. After discovering there was no such protective headgear on the market, the men decided to design their own.

The mechanical engineering department at NDSU took the soccer dads' concepts and helped develop them into a reliable product. "Their design was based on intuition," Ziejewski said. "We put some engineering principles behind their ideas and were a partner in developing the product."

Ziejewski was assisted in the development and testing by Hans Goettler, professor of mechanical engineering, who served as co-principal investigator of the project, and several senior level and graduate students.

Finished designs are now on the market. The research team at NDSU is continuing to develop more models of the headgear for different levels of impact.

# Engineering, computer science faculty participate in international symposium

Due to incomplete information provided, the following story appeared in the Aug. 25 issue of "It's Happening at State" with incorrect information. The correct version is as follows:

Twenty-four faculty members from engineering and computer science departments participated in the International Symposium on Intelligent Multimedia and Distance Education Aug. 2-7 in Baden-Baden, Germany. The event was held in conjunction with the 11th International Conference on Systems Research, Informatics and Cybernetics. Orlando Baiocchi, chair of electrical and computer engineering, and Mahbubur Rahman Syed, visiting professor to electrical and computer engineering from Monash University in Australia, were co-chairs of the symposium. Syed presented a keynote paper entitled "How Information Technology is Transforming Our Society" in the opening plenary session.

It's Happening, September 1, 1999

Symposium presentations by NDSU faculty, staff and students included "Developing Visualizations for AI Course Use," Paul Juell, associate professor of computer science;

"The Technology-Enhanced Learning Circle: A Faculty Development Model for Online Instruction," Nancy Olson, assistant director of continuing education, co-written by Elizabeth Smith, instructional designer, Sandy Sprafka, distance education technology coordinator, and Nancy Lilleberg, multimedia coordinator, all of ITS;

- "Evolution of a Web Course: A Case Study," Nancy Olson, co-written by Baiocchi, James Landrum, graduate research assistant, electrical and computer engineering, and Jerry Olson, technical coordinator in continuing education;
- "Development of a Signal Integrity Curriculum for Distance Education," (poster session) Joel Jorgenson, assistant professor of electrical and computer engineering;
- "Utility Model for Goal-Directed Planner," Kuo-Di Jian, graduate student, and Ken Nygard, chair of computer science;
- "Edge Loss or Error Due to Convolution," co-written by David Farden, professor of electrical and computer engineering;
- "An Integrated Visual Workbench for Sensor Signal Analysis," Scott Obowa, graduate student, and Khan Iftekharuddin, assistant professor of computer science and electrical engineering;
- "Biometric Authentication for Secure Smart Card Applications," "Thin Photorefractive Crystal Based Joint Transform Processor," and "New Educational Paradigms in Distance Education," all co-written by Syed.

In addition, Juell chaired a presentation session, and Nancy Olson chaired a panel discussion on issues related to distance education. Panel members represented eight universities in seven different countries.

The symposium organizing committee includeded Val Tareski, associate professor of electrical and computer engineering; Iftekharuddin, Juell, Baiocchi, Nancy Olson and Syed.

The international program committee represented 17 countries and included William Perrizo, professor of computer science; Nygard, Baiocchi and Syed.

NDSU faculty who reviewed papers included Stefan Balaz, associate professor of pharmaceutical science; Ken Ebeling, professor of industrial and manufacturing engineering; Kenneth Magel, professor of computer science; Ganapathy Mahalingam, assistant professor of architecture; Phil McClean, professor of plant sciences; Wayne Reitz, assistant professor of mechanical engineering; Brian Slator, associate professor of computer science; Iftekharuddin; Juell; and Nygard.

Syed will chair and host the conference next summer at NDSU.

### **Events**

# Festival Concert Series announces new season

The Festival Concert Series has scheduled five performances for its 1999-2000 season. The events range from a patriotic musical tribute to an improvisational comedy troupe to an evening of traditional Irish dancing. All performances will be in Festival Concert Hall, Reineke Fine Arts Center.

- Five by Design in "Radio Days" is scheduled for 8 p.m. Friday, Sept. 10. The performance is a musical tribute to the vocal groups of the big band era. The program weaves together the music, vintage clothing and portions of radio programming from the war years. The Minneapolis-based quintet has performed across the United States and as far away as Istanbul, Turkey.
- Mary Ellen Childs' CRASH is planned for 8 p.m. Saturday, Oct. 23. The percussion ensemble provides entertainment for both the eyes and ears by combining music, dance and theater for a truly original, energetic show. Cymbal players on wheels and other unusually choreographed pieces of music in motion have earned the group raves from The New York Times, The Chicago Tribune and The Village Voice.
- Brave New Workshop is scheduled to perform at 8 p.m. Friday, Jan. 21. The satirical comedy theatre was founded in 1958 by Dudley Riggs and is the oldest theatre of its kind in the country. Original sketches and songs dealing with current events are performed in a variety of styles, all with the common undercurrent of humor. The cast also performs a set of improvisation after the scripted show, taking cues from the audience for a one-of-a-kind, "instant theatre" spectacle.
- Traditional Irish folk dancing comes alive with Common Ground, which is scheduled for 7 p.m. Tuesday, March 21. The performance traces the roots of Irish step, American tap and clog dancing through related contemporary forms of dance. All three styles are driven to an extreme level of performance that leaves the audience's hands clapping and toes tapping.
- Peter Ostroushko and Dean Magraw are scheduled to provide an evening of music at 8 p.m. Saturday, April 29. The duo's meaningful lyrics are accompanied by the music of guitar, fiddle and mandolin. The versatility of the musicians and their influences from around the world makes for a musical lesson in world culture.

Season tickets are \$52 for adults, \$40 for senior citizens and NDSU employees, \$24 for non-NDSU students and children and \$20 for NDSU students. For tickets call 1-8458 or TicketMaster at 235-7171, stop by the Memorial Union Ticket Office or any TicketMaster outlet.

### Safety short courses offered

A radiation safety short course is planned for 8 a.m.-noon Thursday, Sept. 2, in the Memorial Union Peace Garden room. The course is designed for new or potential users of radioactive materials in the laboratory. Topics will include basic theory of radioactivity, biological interactions, radiation protection methods, minimizing exposure levels, rules and regulations, safe handling, decontamination and emergency procedures. To pre-register call 1-7759. the fee is \$25.

A laboratory and chemical safety short course is scheduled for 1:30-4 p.m. Thursday, Sept. 16, in the Memorial Union Peace Garden room. The course is required of all new NDSU personnel who will be using chemicals or work in a laboratory. Topics include chemical safety, personal protective equipment, MSDS, review of incidents, hazardous waste collection and disposal and emergency procedures. There is no fee and pre-registration is not required.

### **Shorts and Reminders**

Memorial Union announces regular hours of operation Regular hours of operation for the Memorial Union will be

6 a.m.-11 p.m. Monday through Friday and 1 p.m.-11 p.m. on Saturdays and Sundays.

During vacation breaks, the Memorial Union hours are 6 a.m.-5:30 p.m. Monday through Friday, and closed on weekends.

#### **NDSU Libraries Labor Day hours**

All NDSU Libraries will be closed Labor Day weekend, Saturday-Sunday, Sept. 4-5. The Main Library will be open from 1 p.m.-midnight Monday, Sept. 6, and branch libraries (Architecture, Chemistry, Pharmacy) will be open 5-10 p.m. Regular academic hours resume Tuesday, Sept. 7.

For a current listing of hours consult the Libraries' web page at *www.lib.ndsu.nodak.edu*, use the HRS command on the online catalog or call the information tape 1-9456.

#### **Open Positions**

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

Administrative Secretary/#2411 College of Business Administration \$16,500+/year Sept. 7

Administrative Secretary/#1894 Child Development and Family Science \$17,000+/year Sept. 9

Food Service Worker/#4294 (9-month position; 7 a.m.-3:30 p.m.; M-F; occasional catering help, summer hours as available) Dining Services - Memorial Union Dining Center \$5.60/hour Sept. 10

Custodian/#1238 Residence Life \$7.36/Hour Sept. 15

Custodian/#700 (M-F; 5 a.m.-1:30 p.m.) Physical Plant \$14,560 minimum/year Sept. 3

WWW Development Specialist Information Technology Services \$29,500 minimum/year Sept. 3

Ruminant Nutrition Technician (2 positions) Animal and Range Sciences \$17,000 minimum/year (75% FTE) Sept. 3

Riparian Forester/#4745 North Dakota Forest Service - Walhalla, N.D. \$21,216 minimum/year Sept. 1

WWW Site Developer Plant Sciences \$25,000 minimum/year Sept. 3

Head of Technical Services/#0518 NDSU Libraries \$32,652+/year Oct. 3

Research and Communication Specialist Quentin Burdick Center for Cooperatives \$36,000+/year Sept. 10

Position openings also are available through the NDSU Web site at www.nodak.edu/human-resources/.

### Union Food Court Specials Aug. 30-Sept. 8

#### The Corner Deli

Monday: turkey Tuesday: roast beef Wednesday: corned beef

Thursday: ham Friday: tuna salad Monday: CLOSED Tuesday: roast beef Wednesday: pastrami

#### More Than a Burger

Monday: hamburger

Tuesday: bacon cheeseburger Wednesday: breaded chicken Thursday: cheeseburger Friday: fish sandwich Monday: CLOSED Tuesday: chicken poppers Wednesday: broiled chicken

A La Carte (formerly Wok This Way)

Monday: shaved barbecued beef Tuesday: hand-carved roast pork Wednesday: stir fry chicken Thursday: hand-carved roast beef

Friday: fish strips Monday: CLOSED

Tuesday: hand-carved roast beef Wednesday: barbecued pork

#### Soup of the Day

Monday: vegetarian vegetable

Tuesday: beer cheese Wednesday: tomato rice Thursday: wild rice Friday: navy bean Monday: CLOSED Tuesday: corn chowder Wednesday: beef barley

\*Items are subject to change without notice.

Call the Dining Services Lunch Line daily at 1-9501 to check out the soup of the day and other specials.

Questions or comments may be dropped in the suggestion boxes located in each dining center and the Union Food Court, or call Kim at the Union Dining Center and Catering office at 1-8122.

### Calendar

#### September

- 3 Psychology —Raymond G. Miltenberger, "Training and Generalization of Sexual Abuse Prevention Skills for Women with Mental Retardation," 3:30 p.m., Minard 209.
- 6 Labor Day holiday, administrative offices closed, no classes
- 10 Festival Concert Series presents Five by Design in "Radio Days," 8 p.m., Festival Concert Hall
- 11 Trip to Sidewalk Arts Festival, Sioux Falls, S.D.; for more information contact the Gallery at 1-8239
- 17 Peter Mayer concert, 7 p.m., Memorial Union Gallery; tickets available at the Memorial Union information desk
- 24 Robert Jones, assistant professor of music, faculty recital, 8 p.m., Beckwith Recital Hall
- 27-Oct. 6 Exhibit of American Institute of Architects, North Dakota chapter, Memorial Union Gallery; for information call 1-7900

### October

Through Oct. 6 exhibit of American Institute of Architects, North Dakota chapter, Memorial Union Gallery

- 8 Opening of "Walter Piehl: Sweethearts, Roping Fools and Cowgirl Suite" exhibit at the Memorial Union Gallery. Artist on-site painting Oct. 7 and 8, reception 4-6 p.m., Oct. 8. Exhibit runs through Nov. 10. For information call 1-8239
- 8 Blue Key Homecoming show, 7:30 p.m., Festival Concert Hall
- 8-9 Little Country Theatre presents "It Is So, If You Think So," 8 p.m., Askanase Auditorium
- 9 Homecoming, Gallery hours 10 a.m.-2 p.m.
- 14 Fall choral concert, 8 p.m., Festival Concert Hall
- 14-16 Little Country Theatre presents "It Is So, If You Think So," 8 p.m., Askanase Auditorium
- 18 High School Choral Festival concert, 7 p.m., Festival Concert Hall
- Family Weekend, Gallery hours 9:30 a.m.-6 p.m.
- Jazz Ensemble concert, 8 p.m., Festival Concert Hall

- 23 Festival Concert Series presents Mary Ellen Childs' CRASH, 8 p.m., Festival Concert Hall
- 23 Community pumpkin carving festival, 1-4 p.m., Art Building
- 24 Gold Star Marching Band concert, 2 p.m., Festival Concert Hall
- 25 Advising week begins for spring semester

#### November

Through Nov. 10 "Walter Piehl: Sweethearts, Roping Fools and Cowgirl Suite," Memorial Union Gallery; for information call 1-8239

- 1 Spring semester registration begins
- 3 Jazz Combos concert, 8 p.m., Beckwith Recital Hall
- 5 Heartland Brass Quintet concert, 7:30 p.m., Beckwith Recital Hall
- 11 Veteran's Day, administrative offices closed, no classes
- 12-13 Little Country Theatre presents "Oleanna," 8 p.m., Walsh Studio Theatre
- 18-20 Little Country Theatre presents "Oleanna," 8 p.m., Walsh Studio Theatre
- Thanksgiving Day, administrative offices closed, no classes
- Administrative offices open, no classes
- 29 Classes resume

#### December

- 3-5 Madrigal Dinners, 6:30 p.m., Festival Concert Hall, Grand Lobby
- 6 Tri-College Percussion Ensemble and Marimba Choir concert, 8 p.m., Festival Concert Hall
- 7 Jazz Ensemble and Jazz Lab Band concert, 8 p.m., Festival Concert Hall
- 8 Brass Ensemble and Gold Star Concert Band concert, 8 p.m., Festival Concert Hall
- 10 Annual Chili Feed and SAS Art Sale, 11:30 a.m.-1:30 p.m., Art Building
- 10 Annual Holiday Ceramic Sale, noon-6 p.m., Art Building

- 10 Last day of classes
- Winter choral concert, 2 p.m., Festival Concert Hall
- 13-17 Final exams
- 20-Jan. 10 Winter recess, no classes

### January

- 10 Orientation and registration for new and returning students
- 11 Classes begin
- 17 Martin Luther King Jr. holiday, administrative offices closed, no classes
- Administrative offices open, classes resume
- 21 Festival Concert Series presents Brave New Workshop, 8 p.m., Festival Concert Hall

#### February

- 21 President's Day, administrative offices closed, no classes
- Administrative offices open, classes resume

### March

- 13-17 Spring break, no classes
- 21 Festival Concert Series presents Common Ground, 7 p.m., Festival Concert Hall
- 22 Classes resume
- Advising week begins for fall 1999 semester

### April

- 3 Fall registration begins
- 21-24 Holiday/recess, no classes
- 29 Festival Concert Series presents Peter Ostroushko and Dean Magraw, 8 p.m., Festival Concert Hall

page 12

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