

## Chapman has busy summer

NDSU President Joseph Chapman is spending much of the summer meeting with alumni, friends, legislators and others around the state. Since becoming NDSU's 13th president on June 1, his schedule has included weekly trips across the region.

"I am really enjoying this opportunity to meet and talk with people from all parts of North Dakota. I'm learning a great deal," said Chapman. "I set an active summer travel schedule because I know this fall I will be spending most of my time on campus with faculty and students. I am impressed by the work of NDSU's research stations and all the fine people I'm meeting."

In June, he attended the Theodore Roosevelt Medora Foundation meeting in Medora, Streeter Field Day and the State Board of Higher Education meeting at Dickinson State University.

July has included Field Day events at Hettinger, Dickinson, Williston, Carrington and Minot and the SBHE retreat in Valley City. Upcoming travels through the middle of August include Sidney, Mont., Field Day; an alumni event in Kennebunkport, Maine; and Oakes Field Day.

Chapman's wife, Gale, and daughters, Valerie and Jennifer, are now at home in the president's residence after moving from Bozeman, Mont.

## Bonds approved for Health and Wellness Center

Plans for the NDSU Health and Wellness Center are moving forward after the State Board of Higher Education approved issuing self-liquidating bonds for the project. The item was on the board's June 17 consent agenda.

"This a significant step," said Gary Narum, associate vice president for student affairs. "The students are very anxious about getting the bond sale approved because by moving quickly, we can take advantage of low interest rates."

With interest rates hovering slightly below 6 percent, Narum said there is a favorable climate to lock in the interest on the bonds. "The sooner, the better," he said. "We'd like to do it in August, before the summer is over. It looks like interest rates may be going up."

Geston Duffy Architects, Fargo, is doing the project design work on the \$4.5 million project, with Harold Thompson serving as principal architect. Construction drawings should be finished this fall.

"We're moving ahead," Narum said. "The students are excited. They're the ones who have put so much time and effort into this. When they voted to raise their fees \$38 per semester to fund the project, they spoke to what is important to them and what they value."

The facility will be located on the western edge of campus, east of 18th Street and southwest of Newman Outdoor Field. Construction is expected to begin in March and be completed in about 15 months.

## Application filed for defined contribution qualification

An application was filed June 30 with the Internal Revenue Service for an advance determination as to whether our Defined Contribution Plan meets the qualification requirements of Section 401 of the Internal Revenue Code of 1986, with respect to the plan's Amendment and Restatements.

The application is considered a routine step in insuring full compliance of the TIAA/CREF retirement program. Copies of the application may be viewed on the Human Resources news and announcement web page at [www.ndsu.nodak.edu/human-resources/news.htm](http://www.ndsu.nodak.edu/human-resources/news.htm) or outside the Human Resources office at 205 Old Main.

## Work-study request forms sent

The forms to request work-study students to work for departments for the 1999-2000 school year were sent in campus mail last week. If you did not receive the form and you would like to have one mailed to you, please call Sharon Albrecht in the financial aid office at 1-7535 or send e-mail to [salbrech@gwmail.nodak.edu](mailto:salbrech@gwmail.nodak.edu). The deadline to return the form is Friday, July 16.

## Surplus sale planned for Aug. 13

A surplus sale is scheduled for noon-2 p.m. Friday, Aug. 13, in the Auxiliary Enterprises Building. Sales are held the second Friday of each month. Contact Peter Hart for more information at 1-8348.

## Next Issue

Publication date: Wednesday, Aug. 18  
Submissions due: noon Aug. 12  
Old Main 204  
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## DEPSCoR requests proposals

The Department of Defense Experimental Program to Stimulate Competitive Research (DEPSCoR) Awards Program has been announced for fiscal year 2000. Each of the 18 EPSCoR states is eligible to apply for up to \$5 million for three years. The Department of Defense requires that each state submit its proposal from the State EPSCoR Steering Committee. Each EPSCoR state proposal must consist of no more than 15 separate fundable proposals.

Five copies of the complete formal principal investigator proposals are due in one of the ND EPSCoR offices by noon Monday, Aug. 2. Following an external peer review process, no more than 15 proposals will be chosen and returned to the principal investigators for a final update of the proposal. The deadline for submission of the final version (11 copies—original plus 10) of the selected proposals to one of the ND EPSCoR offices is noon Tuesday, Aug. 31. ND EPSCoR will coordinate the state's submission to Department of Defense.

A complete copy of the request for proposals is available from the ND EPSCoR web page at [www.ndsu.nodak.edu/epscor](http://www.ndsu.nodak.edu/epscor) or by calling the EPSCoR office at 1-8400 or the campus research office at 1-8045.

Since 1993, 15 NDSU researchers have been awarded nearly \$3.4 million through DEPSCoR. The purpose of ND EPSCoR, a North Dakota University System program, is to make North Dakota more competitive nationally in science, engineering, and mathematics research and development.

## Architecture alumni donate \$35,000

John Reynolds Klai II has made a gift of \$25,000 to the architecture and landscape architecture department for the purchase of digital imaging equipment for student use. Klai, BA '77 and BArch '78, is now principal of Klai::Juba Architects, Las Vegas.

The gift follows a \$10,000 purchase and permanent loan of new books to the Architecture and Landscape Architecture Library by the Klai::Juba firm, as the first installment of the Klai::Juba Book Collection. Dan Juba, the firm's second principal, earned a bachelor's degree from NDSU in 1977 and an architecture degree in 1978.

Paul Gleye, chair of the architecture and landscape architecture department, said, "The generosity of two of our graduates, John Klai and Dan Juba, has resulted in the largest gifts ever presented to the department. Their support will substantially enhance our ability to provide leading-edge educational resources for our architecture and landscape architecture students."

## Physical Plant alerts campus to need for shared leave

The Physical Plant department 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.

Shirley Lief, custodian for engineering technology in Walster Hall, 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 these 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 Mark Herz at 1-1012. If necessary, leave voice mail stating your name and building. Forms will be forwarded to you.

## NDSU has new assistance program provider

Effective July 1, The Village will provide services for the faculty/staff assistance program for NDSU.

The program provides problem assessment, short-term counseling and referral to community resources to NDSU employees at 15 offices in North Dakota and Minnesota. However, service is available nationwide. The services are available to benefited faculty and staff and their immediate family members free of charge.

The service offers assistance in marital and parenting concerns, emotional crises, financial and legal difficulties, substance abuse evaluations and work-related problems. Employees may arrange appointments with a counselor by calling 1-800-677-8220.

Faculty and staff orientation meetings will be scheduled in September. For more information contact Lyn Pletta, benefits coordinator, at 1-8965 or by e-mail at [pletta@badlands.nodak.edu](mailto:pletta@badlands.nodak.edu), or contact The Village.

Faculty and staff should continue to refer students in need of services to the Counseling and Disability Services office, located in Ceres Hall.

## People

### Chapman named honorary member of conservation group

NDSU President Joseph Chapman was named an honorary member of the Species Survival Commission in May. The commission is a network of 7,000 volunteers who work to produce the scientific foundation for effective conservation. It was founded in 1949 and its headquarters are in Switzerland.

Chapman was recognized for his years of contributions to the commission.

### Li to retire Aug. 16

Kam Wu Li, professor of mechanical engineering, will retire Aug. 16. He joined the mechanical engineering faculty in 1967. He received his doctorate from Oklahoma State University, his master's degree from Colorado State University and his bachelor's degree from Hong Kong's Chu Hai College.

Li's accomplishments during his 32-year-career at NDSU include selection for fellowships to work at MIT and Berkley and an ASEE Ford Foundation resident fellow award for work at the Northern States Power Co. in 1971 and 1972. He was recognized several times for excellence in the classroom, the most recent being the College of Engineering and Architecture Teacher of the Year Award in 1995.

He is a member of the American Society of Mechanical Engineers, the North Dakota Academy of Sciences, Pi Tau Sigma, Kappa Mu Epsilon, Sigma Tau and Sigma Xi.

Li has been published in 37 publications and has written two textbooks. His research was supported by the National Science Foundation, Northern States Power, the Department of Defense and NDSU. He served in many positions on campus including associate dean for the College of Engineering and Architecture; interim chair of the mechanical engineering department; a member of the program review committee at NDSU; and a member of the University Senate and University Senate executive committee. He was also chairman of University Senate Research Committee, a member of the NDSU Graduate School Council, a member of the College of Engineering and Architecture PT&E committee and was a member of the executive committee in the College of Engineering and Architecture. Li's biographical information appears in several publications, including Who's Who in the World.

He and his wife, Margaret, reside in Moorhead and have two sons, Christopher, a business executive in Florida, and Charles, a surgeon in the Minneapolis area.

### Mehta receives Hewlett Packard award

Sudhir Mehta, professor of mechanical engineering, received the Hewlett Packard Award for Excellence in Laboratory Instruction. Mehta was one of two professors in the nation to receive the award and \$1,000 honorarium.

To be eligible for the award, nominees must be members of the American Society for Engineering Education. They must be professors who motivate and inspire students in laboratory



Sudhir Mehta is congratulated by Otto Helweg, dean of engineering and architecture, on his Hewlett Packard award for excellence in teaching.

work and who have been innovators in the development of lab courses, course materials, facilities or equipment and have enriched students' experimentation experiences.

Mehta has produced several innovative techniques in his lab courses, including integration of hypermedia and Internet technology. More than 60 universities have requested copies of the CD ROM he produced that covers lab instructions for 14 experiments in engineering measurements courses.

He joined the faculty at NDSU in 1984 and is now in charge of applied high tech and measurements laboratories. He received his doctorate and bachelor's degrees from IIT in Bombay, India, and his master's degree from State University of New York at Buffalo.

### Kellogg presents paper at conference

Kenneth G. Kellogg, assistant professor of civil engineering, presented a paper at the International Society of Offshore and Polar Engineering conference in Brest, France, in May. The paper was titled "Influence of Moisture and Low Temperature on Notched Izod Impact Toughness in a Pultruded Reinforced Composite."

Kellogg co-wrote the paper with Alan R. Kallmeyer, assistant professor of mechanical engineering; Ratna Babu Chinnam, assistant professor of industrial and manufacturing engineering; and Piyush K. Dutta, U.S. Army Cold Regions Research and Engineering Laboratory.

Kellogg and Kallmeyer have initiated a collaborative research effort with Dutta to investigate the effects of low temperature environments on composite materials. The paper reported research conducted by Kellogg and Dutta at Cold Regions Research and Engineering lab in 1998, and addresses the effects of cold temperatures and moisture on the impact resistance of a pultruded glass reinforced composite.

## Duysen retires

Murray E. Duysen, professor of botany and plant sciences, retired in June after 34 years of service to NDSU.

During his time at NDSU, Duysen taught plant physiology to both undergraduates and graduate students. He was a member of approximately 25 graduate committees each year, and advised several master's and doctoral candidates.

In addition to his teaching appointments in botany and plant sciences, Duysen conducted research in the Agricultural Experiment Station's Department of Crops and Weed Sciences. His research interests include plant growth and development, the chloroplast as a model of plant development, gene regulation of chloroplast development, and environmental stress and plant development. He was involved for more than 25 years with the North Central Regional Committee, a group of scientists studying how plants intercept light energy and convert it into a product.

"I've been very fortunate to be able to teach and do the research that I'm interested in at a place like NDSU," Duysen said. "I've been here 34 years, but it feels like I walked in yesterday."

Duysen earned his bachelor's degree in biology in 1959 from the University of Omaha, his master's in botany and plant physiology in 1962 and his doctorate in botany and plant physiology in 1966, both from the University of Nebraska. He is a member of the American Society of Plant Physiologists, Sigma Xi and Phi Beta Kappa.

He and his wife, Roberta, live in Fargo.

## Gillispie's tunable laser featured on magazine cover

A new product developed by Gregory Gillispie, professor of chemistry, was featured on the cover of the June issue of Lasers & Optonics magazine. The international publication features articles about laser technology and new product announcements.

Gillispie's tunable laser is a device used by chemists, physicists and engineers for scientific research. It allows the user to change the wavelength, or color, of the light emitted from the machine.

Readers of the trade magazine may submit information and photos of new products to be considered for publication. Gillispie feels fortunate to have been featured on the cover and gives partial credit to the photo, taken by NDSU photographer Dan Koeck, for the prominent placement. The laser is distributed through Gillispie's company, Dakota Technologies, Fargo.

## Srivastava receives competitive National Science Foundation grant

The Molecular Biochemistry division of the National Science Foundation awarded a \$330,000 competitive research grant to D. K. Srivastava, associate professor of biochemistry, to pursue his research on protein chemistry and enzymology. Srivastava was one of 12 applicants in the nation to receive the award.

His research group is investigating the basic principles that underlie the recognition among biological macromolecules. His research is significant to a variety of areas of modern biochemistry/biotechnology, including designing drugs and pesticides, eliciting novel catalytic properties in enzymes and recognizing compounds that can be converted into commercially valuable products.

Srivastava's group is trying to understand the sequence of events that accompany the binding of structurally diverse ligands to the active site of a recombinant enzyme, medium-chain acyl-CoA dehydrogenase (involved in the breakdown of fatty acids in the physiological systems) and its site-specific mutations.

By employing the techniques of molecular biology, synthetic organic chemistry, spectroscopy, rapid-kinetics, thermodynamics and computergraphic modeling, Srivastava and his co-workers are investigating how the enzymes extract different amounts of energy from different regions of the substrate structures during binding and catalysis. Srivastava's research provides evidence that enzymes perform far more sophisticated functions than those envisaged by contemporary protein chemical studies in recent years.

"It appears that enzyme proteins possess some sort of memory, which allows them to discriminate between one region of the substrate structure to the other, and from one type of substrate to the other. Such properties are neither conceivable by examining the high-resolution structural data of proteins, nor by undertaking the conventional enzymological/protein chemical studies," Srivastava said.

Srivastava joined the biochemistry department at NDSU in 1989. He has received continuous research funding from sources such as National Institutes of Health, the National Science Foundation, the United States Department of Agriculture and the American Heart Association since he joined NDSU. He also has been regularly publishing three to four research papers each year in biochemical journals.

## Urban presents lectures in Europe

Marek W. Urban, professor and chair of polymers and coatings, presented invited lectures in Europe and the United States this summer.

On June 22-25, he gave two lectures in Switzerland, at the University of Zurich and Dow Europe. He presented a lecture at the 25th International Conference in Coatings July 7 in Athens, Greece. He also was a discussion leader at the prestigious Gordon Research Conference in Films and Organic Coatings held July 12-16 in Colby Sawyer, NH.

## Griffin elected officer of national transportation association

Gene Griffin, director of the Upper Great Plains Transportation Institute, has been elected president of the American Road and Transportation Builders Association's Educational Division. He also will serve as a member of the association's board of directors and executive committee. The group was established in 1902 and is the only national association to exclusively represent the legislative and regulatory interests of the \$160 billion-per-year U.S. transportation construction industry in Washington, D.C.

Griffin will lead more than 40 top American transportation educators and researchers in recommending and advocating improvements to the nation's transportation investment policies before Congress and the federal government. The goals of the division include improving transportation research, education and technology transfer.

Griffin has more than 25 years of experience in the transportation community. He has served as director of the Upper Great Plains Transportation Institute since 1980, and is responsible for administering the Institute's transportation education, research and outreach programs. He is a nationally recognized scholar in the areas of rail, motor carrier, public policy, low volume roads and rural and agricultural transportation.

He also is the past president of the Transportation Research Forum's agricultural chapter, past president of the Council of University Transportation Centers and is a member of the Transportation Research Board.

Griffin has a bachelor's degree in mathematics and a master's degree in economics from NDSU.

## New faculty members joining mechanical engineering department

Mohammad Alimi will join the mechanical engineering faculty this fall. He received his doctorate in engineering mechanics from the University of Alabama, Tuscaloosa. His research interest is in the area of thermal fatigue and he has been involved in undergraduate curriculum development at the University of Science and Technology in Isfahan, Iran. Prior to coming to NDSU, he was a visiting assistant professor at the University of Alabama. His primary focus at NDSU will be teaching in the undergraduate courses.

Michael Stewart comes to the mechanical engineering department from the University of Arkansas, where he had been an assistant professor. He earned his doctorate at the University of Illinois, Urbana. His research interests lie in the area of experimental and computational fluid dynamics and heat transfer.

## School of Education team attends summer institute

A team of NDSU faculty from the School of Education was one of five teams from various universities to attend The Collaboration's 1999 Summer Institute in Northfield, Minn., in June. The event focused on revising pivotal courses through reflective practice. Team members attending the institute were Cynthia Leung, assistant professor of education; Ted May, assistant professor of education; James Wigtil, professor of education; and Anissa Wilhelm, assistant professor of education; and Justin Wageman, who will join the faculty on a temporary basis beginning in August.

The NDSU team goal was to enhance the quality of the NDSU pre-service teacher education program by evaluating current courses and adjusting them to fit Interstate New Teacher Assessment and Support Consortium standards.

The Bob and Patty Hendrickson Fund for faculty professional development administered by the College of Human Development and Education provided one team member scholarship and The Collaboration provided an additional team member scholarship.

## Mahalingam elected to committee, to present papers in Japan

Ganapathy Mahalingam, assistant professor of architecture, was elected as an alternate member to the steering committee of the Association for Computer-Aided Design In Architecture. The association consists of an international body of academics and professionals working to further research in the field of computer-aided architectural design.

Mahalingam's article, concerning the research challenges facing the field of computer-aided architectural design, will be featured in an upcoming special issue of the association's journal. His paper titled "A Parallel Processing Model For The Analysis And Design Of Rectangular Frame Structures" has been accepted for presentation as "Work in Progress" at the association's 1999 conference and publication in the proceedings.

Another of Mahalingam's papers, "A New Algorithm For The Simulation Of Sound Propagation In Spatial Enclosures," has been accepted for presentation at the international Building Simulation '99 Conference to be held later this year in Kyoto, Japan.

## Dairy student wins national competition

Matt Laubach, a senior in animal and range sciences, received first place at the American Dairy Science Association Student Affiliate Division undergraduate student competition in Memphis, Tenn., in June. His presentation was titled "Freestall Bedding Materials Affect Milk Quality and Udder Preparation Time." He competed against other undergraduates from universities across the nation.

The competition was for undergraduates interested in recent developments in dairy science. Laubach's presentation included results of a similar research project he and David Carlson, a junior in animal and range sciences, conducted last winter under the direction of Chung Park, professor of animal science, and J.W. Schroeder, extension dairy specialist.

Laubach plans to be working on a master's degree in dairy production this fall.

## Four students chosen for McNair Scholars Program

Four NDSU students, Scott A. Reule, Heather Krein, Donald Klocke and Mike Weston, have been selected to participate in the McNair Scholars Program.

McNair Scholars are selected from NDSU undergraduates who meet the program criteria and who show an aptitude and an interest in agricultural, engineering, science, mathematics or pharmacy research. To be eligible for selection, McNair Scholars need to be income eligible, first-generation college students or from groups traditionally underrepresented at the graduate level for doctoral study. The program encourages scholars to pursue careers in college teaching and research upon completion of the doctorate. Each scholar is supported by an NDSU faculty and library mentor.

Reule, a junior in biotechnology, plans to pursue a doctorate and specialize in orthopedics or pediatrics. His faculty mentor is Gregory Cook, assistant professor of chemistry, and his library mentor is Lura Joseph.

Krein, a junior in psychology, plans to seek a doctorate in psychology and work as a school psychologist with children who have learning disabilities. Her faculty mentor is Odette Gould, assistant professor of psychology, and her library mentor is Kathy Enger.

Klocke, a senior, will pursue a doctorate in molecular biology/biochemistry and research genetic mechanisms of human and animal disease. His faculty mentor is Verlin Hinsz, professor of psychology, and his library mentor is Kathie Richardson.

Weston, a junior, plans to seek a doctorate in psychology. His faculty mentor is Robert Sparks, associate professor of biochemistry, and his library mentor is Enger.

The McNair Scholars Program was named after Ronald E. McNair, one of the members of the Challenger space shuttle crew. NDSU was selected as a site by the U.S. Department of Education for one of the original 14 McNair programs in the nation in 1989. It is administered by the Office of TRIO under the Division of Student Affairs.

## Events

### Gov. Schafer to attend Governor's School graduation

Gov. Ed Schafer will attend graduation ceremonies for the North Dakota Governor's Schools in Business/Entrepreneurship, Laboratory Sciences and Mathematical Sciences held on the NDSU campus. The ceremony will be held at 10 a.m. Saturday, July 17, in the Memorial Union Ballroom.

Celebrating its 10th year, the school provided a six-week learning experience for 58 high school students from 41 North Dakota communities, including four from Fargo. Previously focused on science and mathematics, the school offered business-related activities for the first time.

"We are very pleased the governor will be able to come to our graduation," said Allan G. Fischer, school director and former NDSU interim president, "He will speak to the young people and their families. We also anticipate he will hand out certificates and congratulate the students as they walk across the stage."

Before the graduation ceremony, sculptures, print work and photography by the students will be displayed during a continental breakfast for students and parents at 9:30 a.m. in the Peace Garden Room, Memorial Union.

## Shorts and Reminders

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

Motorpool Dispatcher/#4051  
Physical Plant  
\$16,200/year  
July 19

Administrative Secretary  
Psychology  
\$7.18/hour  
July 13

Legal Assistant  
Office of General Counsel  
\$12.00+/hr  
July 22

Cook/#1093  
Dining Services - UDC  
\$7.60/hr  
July 27

Food Service Worker/#1076  
Dining Services - UDC  
\$6.15/hr  
July 27

Recruit Police Officer/#978  
Physical Plant  
\$1772/month  
July 27

Program Coordinator/#3218  
Career Center  
\$24,000/year  
July 15

Food Technologist/#1431  
Cereal Science  
\$24,000+/year  
July 26

Director, Memorial Union (extended)  
Memorial Union  
Salary: Commensurate with experience  
August 6

## Calendar

### July

30 Last day of summer classes

### August

13 Last day of summer office hours

23 On-site registration

24 Fall semester classes begin

### September

6 Labor Day holiday, administrative offices closed, no classes

### October

25 Advising week begins for spring semester

### November

1 Spring semester registration begins

11 Veteran's Day, administrative offices closed, no classes

25 Thanksgiving Day, administrative offices closed, no classes

26 Administrative offices open, no classes

29 Classes resume

### December

10 Last day of fall semester classes

13-17 Final exams

20-Jan. 10 Winter recess, no classes

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