



President's REPORT

DAKOTA STATE
UNIVERSITY
Madison, SD

2010



President's Message

A dynamic, growing, and innovative institution like Dakota State University presents a significant challenge when attempting to provide information that adequately represents the institution.

The intention of this brief report is to capture only some of the highlights that have marked the past year here at DSU.

We could not be prouder of our record enrollments, our renovation and remodeling of facilities, our designation by US News as the highest ranked public university in the Midwest region for the 5th consecutive year, and our tremendous increase in external (grants and contracts) funding. These accomplishments are all signs that Dakota State has taken very seriously its mission to be the lead institution in the field of information technology for the state of South Dakota and the region.

While some might believe we are just a “computer” school, the integration of information tech skills and savvy are what make our graduates in programs such as business, education, exercise science, English for new media and digital arts so competitive in the job market. DSU will continue to be the place that leads the way, expands our knowledge base, and takes the “technology” risks that are needed to compete in this information and knowledge-based

economy. This only happens when the faculty, students, staff, alumni, and friends of the institution support this focus, and clearly, all these groups are part of the team. I hope this report will give you a very meaningful glimpse into this remarkable university.

Douglas D. Fricolton



Points of Pride

Dakota State University was the highest ranked public university
in the category of Midwest Regional colleges
by U.S. News & World Report
for the fifth year in a row.

QR Codes

The term 'QR' stands for 'quick response'. QR codes take a piece of information and put it in your cell phone. Once it is in your cell phone, it may show you a URL that you can click to see a video or give you details about a product or business.

To read the code, your cell phone needs a QR code reader. Many smart phones come equipped with the capability bundled into the phone. If yours doesn't, copy this link into your web browser to find instructions to download a QR code reader on your phone.

<http://alumni.dsu.edu/QRshort.pdf>



Link to a press release
on DSU's #1 ranking
with your smartphone.
Directions are to the left
of the code.

- Fall 2010 enrollment -- record headcount enrollment of 3,101 students.
 - FTE enrollment increased from 1,632 to 1,708
 - On-campus enrollment increased from 1,196 to 1,247
 - Residence hall occupancy increased from 532 to 612
- A recent study indicates that DSU's economic impact on the Madison region is \$52 million annually.
 - 500+ jobs are directly tied to the university
 - Due to growth and external funding increases during the past 18 months, 21 new positions have been added with salaries ranging from \$24,000 to \$65,000.
- The six-year graduation rate increased from 39.7% (fall 2003 cohort) to 44.1% (fall 2004 cohort).
- The retention rate for full-time, baccalaureate degree-seeking transfers increased from 59.3% (fall 2007 cohort) to 65.6% (fall 2008 cohort).

Results of recent surveys:

- 2010 Alumni Survey – 92% of the students who graduated in 2008-2009 were satisfied or very satisfied with their overall professional capabilities.
- 2010 Employer Survey – 88% of the employers indicated DSU students who graduated in 2008-2009 exceeded or greatly exceeded their expectations to learn on the job.
- Student Satisfaction Inventory for Fall 2009 – DSU students' average satisfaction ratings were significantly higher than the national averages in eleven of the twelve areas, including concern for the individual, service excellence, campus life, academic advising and campus support services.

College of Arts & Sciences

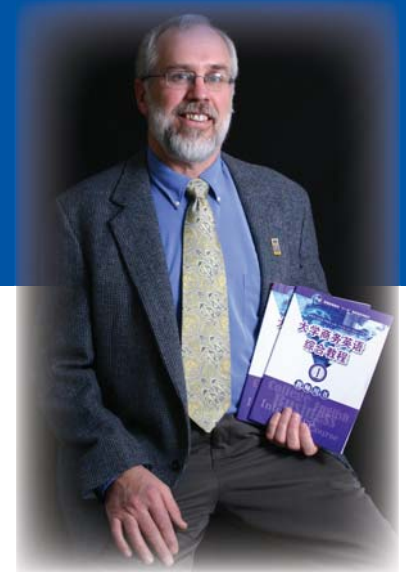


New Curriculum Offerings:

- B.S. in Professional and Technical Communication
- B.S. in English for New Media (replaced English for Information Systems)
- Native American Literature course to be offered on-line
- Sociology minor to be offered on-line

College Highlights:

- Women in Science and Technology (WIST) student organization hosted a series of workshops on careers in science and technology, which were open to area high schools.
- The College hosted its third annual Model United Nations in Spring 2010. Over 100 students from English, speech, and geography classes debated on topics including water quality, global warming, pollution from fish farming, H1N1, international migration, and drug trafficking.
- Students competing in the Region 5 American College Theatre Festival received a Certificate of Merit. The DSU Children's Theatre Troupe "The Pickled Peppers" completed a two-day tour of theatre presentations in area schools.
- Dr. John Nelson has completed a four volume series of textbooks for teaching English to Chinese business students, titled College Business English Integrated Course. The texts are published by Quinhau University Press of Beijing.



College of Business & Information Systems

New Curriculum Offerings:

- B.S. in Computer Game Design (collaborative program with College of Arts & Sciences) started Fall 2008 and has grown to 61 majors in Fall 2010.
- M.S. in Information Assurance curriculum was updated and now includes two specializations: Cybersecurity and Banking & Financial Security.
- D.Sc. in Information Systems program is maintaining maximum enrollment since its implementation in Fall 2006, with a Fall 2010 enrollment of 55. The four graduates of the program have all been hired as faculty members at universities across the country.
- B.S. in Information Systems major was recently updated and now has five specializations: Business Analysis, Change Management, Infrastructure Analysis, Software Development, and Web Development.

College Highlights:

- Senior Lee Wong, a computer and network security major, received a Department of Defense Information Assurance Scholarship awarded through the Space and Naval Warfare Center. The scholarship will pay for the full cost of tuition, required fees and books, plus a stipend to cover room and board for the 2010-2011 school years.
- Over \$250,000 has been invested in virtualization. This infrastructure provides an exceptional environment to provide advanced technology resources (lab activities, software resources, etc.) for faculty, staff and students on and off campus.
- The national exam results for both the Registered Health Information Technologist (RHIT) and Registered Health Information Administrator (RHIA) tests showed a 100% pass rate for DSU graduates testing in the 10/1/2009-09/30/10 time-frame.





College of Education

New Curriculum Offerings:

- B.S.Ed. in Elementary Education/Special Education is now available on-line.
- In Fall 2011, the College will pilot a year-long residency program in conjunction with three elementary schools in Sioux Falls.
- Enrollment in the exercise science and physical education programs continues to grow, with Fall 2010 enrollments of 96 and 57 respectively. Significant additions have been made to the Human Performance Lab to enhance student experiences in classes.

College Highlights:

- Reinforcement of the College's commitment to quality was confirmed in the spring of 2009 through a very successful accreditation process involving the National Council for Accreditation of Teacher Education (NCATE) and the South Dakota Department of Education. All DSU's teacher education programs were fully accredited.
- Professors Vicki Sterling, Jennifer Nash, Don Wiken, and Mark Geary participated in the Verizon Thinkfinity Train the Trainer program in 2009 through a statewide effort by Technology and Innovation in Education (TIE) to develop Thinkfinity resource expertise in South Dakota universities. The goal is to prepare future teachers in the use of 21st century classroom skills so they come in ready to teach the first day of class. Based on their efforts, the faculty have been recognized as Verizon Trainers of the Year.





Outreach / Distance Education

DSU was approved for delivery of a MBA in General Management at the University Center starting in the fall of 2010.

Recently added on-line programs include the following:

- A.S. in Network and Systems Administration (also available at University Center)
- B.B.A. in Management
- B.B.A. in Marketing
- B.S. in Computer Science
- B.S. in Professional and Technical Communications (also available at University Center)
- Bachelors in General Studies
- B.S.Ed. in Elementary Education / Special Education

The Office of Extended Programs oversees all distance education at DSU, including both on-line courses and those offered at off-campus sites such as the University Center in Sioux Falls. In just the past four years, enrollment in on-line courses and those offered at the University Center in Sioux Falls has increased by over 60%, with 21,580 credit hours generated in 2009-2010.

New Services for Distance Students:

- Distance Student On-line Orientation (<http://www.dsu.edu/disted/orientation/index.aspx>)
- Virtual Meet and Greet piloted in August and October 2010
- Online Tutoring piloted Fall 2009; to be fully implemented Spring 2011
- Student Satisfaction Survey initiated Fall 2010; results will be used to enhance and improve services to distance students



Grants and Contracts

In 2009-2010, DSU was awarded 25 grants totaling \$8.7 million. Since July 1, 2010, the university has been awarded over \$2.2 million, with over \$6 million in applications pending.

Dakota State hosted its first session of Research Experiences for Undergraduates (REU) in Summer 2010 under the direction of Dr. Dianxiang Xu, Associate Research Professor. Nine students from across the country participated.

Recent grant awards received at DSU include the following:

- \$2,000,000 contract with South Dakota Bureau of Information Telecommunications for “Broadband Availability”, Stacy Krusemark, PI
- \$45,344 (sub-award with Black Hills State University) for “Education and Outreach Planning for DUSEL Preliminary Design”, Dr. Stephen Krebsbach, PI
- \$1.3 million from the National Science Foundation for “Dakota Defenders Information Assurance Scholarship Program”, Dr. Josh Pauli, PI

The DSU University Research Committee announced the following awards for the FY11 Faculty Research Initiative

- Amit Deokar -- “Flexibility in Business Process Design and Execution: An Empirical Test”
- Jeff Howard -- “Arcana Manor”
- Heather Rissler -- “At the cross-roads of chloroplast evolution: Tetrapyrroles and intracellular signal transduction”
- Zixing Shen -- An Empirical Evaluation of Unified Modeling Language (UML) Notational Elements Using Concept Mapping Approach”
- Barbara Szczerbinska -- “Potassium geoneutrinos – their significance and the detection”
- Michael Tu -- “A Secure and Forensic Sound Two Level Based Update Dissemination Protocol for Peer-to-Peer Data Grids”



Center for Advancement of Health Information Technology

The Center for Advancement of Health Information Technology (CAHIT) was created by DSU to continue current partnerships and develop new partnerships with health care provider, payer, and support industries.

Health IT Regional Extension Center Award: \$5,687,168

In April 2010, DSU received a \$5,687,168 award from the Department of Health and Human Services

to establish a health information technology Regional Extension Center (REC). CAHIT announced HealthPOINT as the health information technology resource and support center for South Dakota.

Health IT Critical Access Hospital Grant: \$576,000

Dakota State University received a \$576,000 grant to provide technical support assistance to critical access and rural

hospital facilities in South Dakota as they convert from paper-based medical records to certified electronic health record technology.

Health IT Workforce Development Grant: \$625,000

Dakota State received \$625,000 as a participant in a training program directed by Bellevue College in Washington.

DSU will coordinate non-degree training in health information technology. Partnering with DSU are Mitchell Tech, Western Dakota Tech in Rapid City, and the University of Alaska-Anchorage.

Health EDventures

Health EDventure's special programs, Healthy KidZ Club and South Dakota Road Trip, have grown to reach over 8,500 K-5 students across South Dakota.



National Center for the Protection of the Financial Infrastructure

Activities underway from National Science Foundation (NSF) and other funding sources include the following:

- \$300,000 NSF grant for capacity building activities (building of labs, student scholarship assistance, and development of research components)
- \$450,000 NSF grant to conduct scientific research in electronic banking issues
- Dr. Dianxiang Xu, Associate Research Professor, and his research assistants have been developing a tool for automated security testing of software applications.

The National Center for the Protection of the Financial Infrastructure was established in 2009. The Research Center studies the security issues of the financial sector, and identifies solutions to these problems.

- Dr. Xu serves as principal investigator for a \$40,000 grant from Samsung Advanced Institute of Technology for “Automated Test Generation for Embedded Concurrent Software”.
- During 2010, the faculty and graduate research assistants of the Center presented at 38 business and academic conferences and published 31 peer-reviewed articles in national journals.

Intercollegiate Athletics

Dakota State University recognized
with Five Star Award



Dakota State University is one of the 204 NAIA college and universities across the country recognized with the Champions of Character Five Star Award. To receive the award, members scored 60 or more points on the NAIA Champions of Character Scorecard. The Scorecard process is based on the NAIA's flagship program Champions of Character, which emphasizes the five core values of integrity, respect, responsibility, sportsmanship, and servant leadership.



Dakota State University sports programs have been involved in a variety of activities in the community. They participated in Habitat for Humanity projects, raised cancer awareness in the months of October and February by wearing pink clothing or sneakers at home contests in volleyball, football and basketball, participated in reading programs with local schools, read NAIA Champions of Character creed prior to home DSU contests and many other activities.



National Association of Intercollegiate Athletics (NAIA) honors:

- Eleven Academic All-Americans in Men's Basketball, Women's Basketball, Cross Country, Football and Volleyball
- Eight All-Americans in Cross Country and Indoor Track and Field
- Twenty-One National Competitors in Men's Cross Country, Women's Cross Country and Indoor Track and Field

Athletic Hall of Fame



Gene Appelwick, Class of 1961

Connie (Robinson) Nyhaug, Class of 1978

Amy Crissinger, Class of 1991

Al Weisbecker, Coach

1989-91 Men's Cross Country Team



Outstanding Service to Alma Mater:

Dwayne and Shirley Jacobson, Class of 1970

Outstanding Educator:

Sharon Delzer, Class of 1965, 1967

Outstanding Alumni

Outstanding Professional Achievement:
Steve Bartel, Class of 1978

Outstanding Professional Achievement:
Renae Spohn, Class of 1984

Outstanding Young Alumnus:
Chris Olson, Class of 2001 and 2004

C. Ruth Habeger Science Center



A 6.2 million renovation of
C. Ruth Habeger Science Center
was completed.

The original building was constructed
in 1972 at a cost of \$1 million.

The building was rededicated
during homecoming 2010.

The renovations transformed the facility into one that accommodates the technology used by today's students. The chemistry lab has special stands for laptops, so students can use the computer while working on projects. Classrooms can be reconfigured to cluster students together. The auditorium is equipped with projectors and surround sound, and power at every seat. The entrance of the building features an atrium with tables and chairs, which is fast becoming a new gathering place for students.



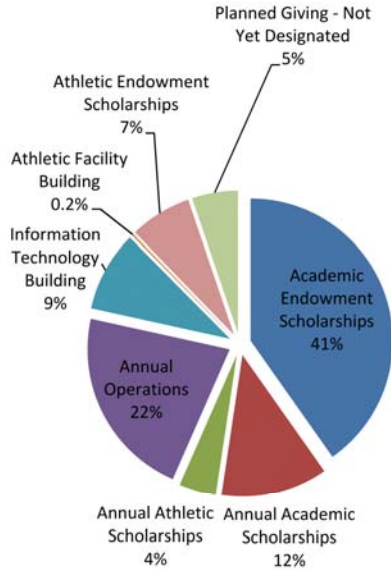
The building is in the process of being certified as a LEED Silver. This certification comes from the US Green Building Council. LEED stands for Leadership in Energy and Environmental Design. The Science Center LEED silver status will be based on a system that rates sustainable site development, water savings, energy efficiency, materials selection and indoor environmental quality.

DSU 2.0, the Capital Campaign

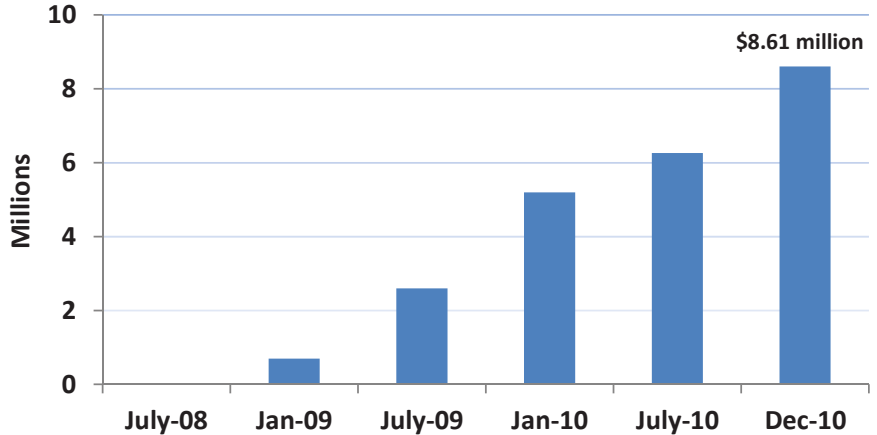
DSU 2.0 is the first comprehensive capital campaign in the university's history. The goal is \$37 million, of which \$17 million is dedicated to scholarships, and operations, another \$10 million to a new technology classroom building, and the final \$10 million to athletic facilities and upgrades.



Where the Money is Going



DSU 2.0 Campaign Progress July 2008-December 2010



The faculty and staff at Dakota State have contributed or pledged \$1.2 million toward the DSU 2.0 Campaign.

Dakota State University is accredited by the Higher Learning Commission of the North Central Association of Colleges and Schools through the Academic Quality Improvement Program. In order to address the challenge of delivering outstanding and cost-effective higher education, DSU has implemented a campus-wide continuous quality improvement (CQI) initiative.



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