DAKOTA STATE MAGAZINE Spring 2019

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DAKOTA STATE UNIVERSITY

FOR OUR ALUMNI, PARENTS, AND FRIENDS This issue features the College of Education

FROM THE PRESIDENT



José-Marie Griffiths President, Dakota State University

Dear fellow friends of Dakota State University,

"Education is a human right with immense power to transform. On its foundation rest the cornerstones of freedom, democracy, and sustainable human development."

This statement, by the international statesman Kofi Annan, would have resonated with the early pioneers who settled this Plains region over a hundred years ago. I still marvel at their strength and wisdom. I am sure many of you can bring to mind specific people, your great-grandparents or grandparents, who were among them. They overcame intense physical challenges in those early days, just to build and keep a roof over their heads and food on the table.

However, in true South Dakota style, those pioneers matched the intensity of their physical strength and perseverance with an intense determination to live lives based on strong values. They would not settle for anything less than to create communities of "freedom, democracy, and sustainable human development." And they understood that to do so, one of their earliest investments had to be in education. And so DSU began.

This issue of our magazine highlights the first college of Dakota State, our College of Education. One hundred and thirty-eight years and counting, it continues to be vibrant and energetic, a transformative and innovative learning and teaching leader in South Dakota and beyond.

Dakota State is in a period of impressive growth and pioneering advancements. Our faculty, students, and staff continue to demonstrate a level of expertise and forward thinking that is sought after by important endeavors. As an example, Dean Ben Jones, head of another of DSU's colleges, the College of Arts and Sciences, was selected by South Dakota Governor Kristi Noem to serve as the state's interim Secretary of Education. We are proud

that Dr. Jones exemplifies DSU's experienced voice and trusted leadership in education in South Dakota, and that he has this opportunity to use his knowledge and skill to further enhance the state's educational systems.

Thank you for your interest and engagement with DSU. As such, you share that connection with DSU's founders, and our heritage mission of ensuring access to the human right of education and its "immense power to transform" for generations, past, present, and future.

#DSUeducationrising

KOTA

Warmly, Dr. José-Marie Griffiths, President Dakota State University



UNIVERSIT

FROM THE DEAN



Dr. Crystal Pauli College of Education

The College of Education is home to DSU's heritage program, the first teacher preparation program in the Dakota Territory. We've come a long way since 1881. Early students could not have imagined teaching in a yearlong residency program, interacting with avatars or online classes. I doubt they could have envisioned a program like exercise science with courses in kinesiology, biomechanics, and exercise physiology. Times have changed!

As Dean, I am privileged to work with faculty, staff, and students who want to impact their world and make it a better place. The College of Education partners with regional school districts, as well as corporate and health care providers, to give education majors and exercise science majors rich experiences in fields that will enhance knowledge, skills, and professional dispositions and lead to life-long careers. Those careers begin successfully upon graduation as all programs had 100 percent placement in 2017.

The College of Education is a busy place with faculty engaging in numerous activities, many of which are featured in this magazine. Additional activities outside the classroom include:

- Diversity/Technology Conference facilitated by Sandi Steinhoff-Muller.
- Girl Scout Cookie University sessions taught by Residency 1 student teachers under the direction of Dr. Kris Harms and Sandi Steinhoff-Muller, with assistance from Level I students.

- Student Lunch 'n Learn led by Kindra Schneider with contributions from faculty.
- SD Healthy YOUth Summit with sessions taught by Level III students under the direction of Drs. Mark Geary and Kris Harms.
- STEAM Camp led by Drs. Jennifer Nash and Kevin Smith, with presentations by other faculty.
- Dr. Scott Klungseth has been chosen as one of twenty inaugural National Play Ambassadors by the Genius Play Initiative.
- Sanford Inspire Program championed by Dr. Katie Anderson and Kindra Schneider.
- Sanford Harmony Program championed by Dr. Gabe Mydland and Stacy Anderson.
- Belize Service Learning Trip led by Jennifer Munger and Sue Filler.

We enjoy hearing from alumni and welcome visits to the office any time alums are in the area. Exciting things are happening in the College of Education. We are rising!

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Cover image: (from left) Elementary Education majors Zach Sutera, Tatum Ronke, Katrina Perry, Kelly Johanson, Shannon DeBoer, Miranda Chedester, Parker Christenson, and Carson Gross pose for a photo in front of the College of Education's new VALE mural. The mural, designed by Chuck Bennis, was completed during the fall of 2018 and offers a creative backdrop for students as they practice teaching in the VALE. Dakota State Magazine is published by the DSU Marketing & Communications Department and the Alumni Office. Distributed at no cost to over 11,000 alumni, donors, and friends.

Send address updates and class notes to: advancement@dsu.edu or DSU Alumni Office, 820 N Washington Ave, Madison, SD 57042



Technology and education combine in high school extra-curricular activities. His DSU education helps Dan Swartos '04 deal with these changes as executive director of the South Dakota State High School Activities Association.

COLLEGE OF EDUCATION

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SWARTOS SERVES ALL STUDENTS IN THE STATE AS SDHSAA DIRECTOR

Technology infused in school extra-curriculars

"At the end of the day that's what it's all about, putting on great events for the kids in our state."

Dan Swartos didn't plan to become the executive director of South Dakota High School Activities Association (SDHSAA) when he graduated from Dakota State.

The 2004 graduate thought he might be a principal someday, but not far into his teaching career he became a superintendent, first at Big Stone City, then McCook Central (both in South Dakota).

He really enjoyed being an administrator, so he thought about it a long time before applying for the SDHSAA position in late 2016.

"I had always been involved in sports and fine arts activities," said the Volga, S.D., native, "so I thought it would be a good way to serve all the students in the state." On July 1, 2017, he took over the reins of the organization that directs and coordinates interscholastic activities of over 40,000 students in 179 high schools in South Dakota.

"It's pretty cool to be in a job where you can impact that many students in the state."

His undergraduate coursework in elementary education and special education had a big impact on things he does now, he said, helping him understand the mindset of students and how they progress through school. In addition, "there were a lot of leadership qualities taught within the curriculum at Dakota State," he said.

He also saw how the faculty members advanced themselves professionally, teachers including Zeno Van Erdewyk, Crystal Pauli, and Tim Fiegen. "That was a big motivator for me to continue on with my own education," Swartos said. In addition to his bachelor's degree, he has earned a master's degree from SDSU, and a Ph.D. in education administration from USD.

DSU classes also taught him communication on a broad scale. That understanding of interpersonal communication helps when working with the media, parents, and coaches. His education, along with his military experience in the Army National Guard, have helped him deal with the stressful situations that come with running a state organization.

Technology education was another plus. "I went through college at an interesting time," he said, "right at the start of the

technological boom." Technology now affects many aspects of the SDHSAA, "from how we work with media partners to the things we put out on social media."

"Dakota State has always been a leader in technology in our state," and a DSU degree "gives you the mindset to embrace change, to see change as something that's exciting instead of something to be scared of."

SDHSAA is embracing the technology changes that are coming in extra-curricular activities.

"We have electronic bibs in track and there is electronic timing for state meets and videos at the finish lines," he pointed out. "In terms of wrestling, we've gone almost exclusively to TrackWrestling, a computer-based program that assigns wrestlers to mats, rather than using paper and pencil."

Even the way people watch the sports has changed, he noted, with many schools streaming games through the NFHS Network. This is a joint venture between the National Federation of State High School Associations, member state organizations, and PlayOn! Sports. South Dakota Public Broadcasting also livestreams many events.

Perhaps the biggest change for SDHSAA will be keeping up with the desires of students and schools. In addition to the legacy sports of football, basketball, wrestling, and track, Swartos said soccer, lacrosse, field hockey, swimming, and diving are gaining popularity.

"A lot of state activity associations are starting to sponsor esports and robotics, and that's something I can see us looking at in the future if our member schools bring it to us. I think we have to look at all of those to get more kids involved," he stated, as they provide "more ways for kids to connect with their schools through activities."

Continuing to stay on top of technology changes will also help the association put on better events for the students.

"At the end of the day that's what it's all about, putting on great events for the kids in our state."

The SDHSAA was founded in 1905 and has been a member of the National Federation of State High School Associations since 1923. The SDHSAA governs high school sports and other activities in the state of South Dakota. *SDHSAA.com* Kari Hall demonstrates how to use the NeuroTracker. Participants wear special glasses and are asked to track certain spheres on the screen.



EXERCISE SCIENTIST CONDUCTS RESEARCH WITH NEUROTRACKER

Technology also useful to students, professors, and athletes

DSU's College of Education has a new computer program on a special piece of equipment that will be utilized for research, teaching, and potentially the athletics department.

The NeuroTracker is a 3-D visual exercise that trains the brain, strengthening the user's mental skills in attention, awareness, working memory, and processing abilities. It was developed through neuroscience research at the University of Montreal.

- "Essentially it's designed to help with training and assessment of high-level cognitive functioning," said Kari Hall, instructor of exercise science.
- "When you think about what we have to do to walk across the street safely, we have to be able to track cars coming, watch the different lights—there are a lot of different things happening."
- Hall received an innovation grant from the office of the Provost/ Vice President for Academic Affairs to purchase a NeuroTracker in the fall of 2018.
- While physical education and exercise science often focus on the physical body, movement, muscles, bones, and joints, there is a cognitive piece because the brain has to tell the body what to do, Hall explained.

She is currently utilizing the NeuroTracker in her doctoral research to see if it can be used to improve balance and help older adults maintain independence.

- "I'm interested in how it's going to work with older adults," Hall said. She hopes the tool will help improve independence for the elderly by improving balance, focus, and preventing rehospitalization due to injuries.
- The NeuroTracker will also be used by students in the classroom, for research by other professors, and will be available for coaches and athletes to use for sports training. Hall is using the NeuroTracker in her motor development class and Dr. Scott Klungseth, assistant professor of exercise science, is using it in his physical education and exercise science course.
- "What I want students to learn is the importance of overall motor behavior," Hall said. "Motor control, motor skills, how important neurocognitive function is to a person as a whole."
- Utilizing the NeuroTracker in the classroom is one way for Dakota State faculty to introduce students to different technology they can utilize in their future careers. It also prepares them to research and take an interest as new technology emerges.

ED MAJORS CONFIDENT WITH LATEST, GREATEST IN TECHNOLOGY

Technology as a student, technology as a teacher

Dakota State University's College of Education faculty hope to instill a mindset in students that encourages them to not only integrate technology into their classrooms, but to be prepared to learn about and utilize new technology throughout their teaching careers, according to Dr. Kevin Smith, assistant professor of mathematics education.

The faculty do this by requiring students to use the latest and greatest technology in class as a student, and then showcasing what it looks like to use the same technology as a teacher.

"The most powerful thing we do for students is offer hands-on experiences that build confidence so they can continue to learn new things after graduation," Smith said.

Technology tools for DSU's classrooms

"An example of technology we strongly believe in is Twitter, especially for future teachers," said Dan Klumper, instructor of social science pedagogy. "It's loaded with great resources, ideas, and tools for professional development, and is available 24/7."

Another online resource popular in the College of Education is Flipgrid, a video discussion platform that allows professors and instructors to engage with students both in face-to-face and online classes.

"I feel like it has totally changed my online classes," Smith said. "Every single week I get a video of every student in my online classes and by the end of the semester I really get to know them. I reply with videos, so we're having a discussion face-to-face, but it's happening asynchronously."

Klumper also sees a benefit in requiring future teachers to speak, articulate, and explain things verbally to prepare them for a classroom setting.

"Instead of relying on text-based discussion boards it really gives them a lot of practice in talking and explaining and thinking something through and processing it and being able to share it verbally," Klumper said.

Additionally, College of Education students are required to utilize technology to create multi-media like videos, visuals, infographics, and podcasts.

"We can talk about these things, but it doesn't have the impact as if we have them do it," Smith said.

Technology tools in DSU's classrooms

In addition to the software, online communication platforms and social media, the College of Education also uses hardware like Dewey the robot and the VALE, or virtual avatar learning experience.

Dewey, a telepresence robot, allows professors to attend meetings and teach classes remotely. It is helpful in classrooms for students who will be absent from class, and online students interested in attending a face-to-face class.

Smith and Klumper describe Dewey as more interactive and powerful than using Skype or Google Hangouts. The student operating Dewey can join small groups and look around the room when someone is speaking.

The classroom is also more interactive through the use of the VALE, which enables students to practice teaching in a low-risk environment with avatar students.

"It's not replacing any field experiences," Klumper said. "It's just offering more opportunities for students to practice their teaching skills in an extremely realistic environment."

"How the avatars act is guaranteed behavior you'll face in the real world," Klumper said.

Current students teach in the VALE twice during their education. Smith hopes to eventually have students teach in the VALE six to eight times during their education.

"Technology provides great opportunities for our students and prepares them by building their confidence," Klumper said.



COLLEGES COLLABORATE ON CYBER CURRICULUM INITIATIVE

Middle school cyber education funded by NSA grant





Rob Honomichl

Dr. Kevin Smith

Dakota State University was one of four universities to receive a 2017 Career and Technical Education grant from the National Security Agency (NSA) for cyber education in middle schools.

This grant enables the College of Education and The Beacom College of Computer and Cyber Sciences to work together to provide training to teachers in partner school districts to help implement more cyber education for middle school students.

After receiving the grant in September of 2017, Dakota State began working with teachers in 2018, according to Rob Honomichl, instructor of information systems.

"Our partner schools are Madison, Brookings, Sioux Falls, Flandreau, Howard, Tri-Valley, and Harrisburg," said Dr. Crystal Pauli, dean of the College of Education.

Honomichl worked with Dr. Kevin Smith, assistant professor of mathematics education, and Dan Klumper, instructor of social science pedagogy, to provide online teaching to prepare middle school teachers for a week of learning on campus. This online portion of the program featured security topics and technology and online tools for the classroom.

"The whole idea is to try and go beyond teaching basic computer skills and begin teaching more computer science topics like programming, coding, and helping students learn to develop mobile apps," Smith said. "Those are all things kids are capable of, but in order for that to happen, the teacher needs to feel comfortable and confident teaching those topics."

The week teachers spent at Dakota State last summer focused on the career opportunities in cyber education and cyber security, and areas to focus on in their own classrooms when teaching computer science.



Participants also attended 25 hours of GenCyber student camps watching different lesson plans being taught to students.

The 19 participants left with three goals for their classrooms: to teach more computer science in the classroom instead of computer skills, to emphasize cyber security career opportunities, and to infuse cyber security topics into existing courses, according to Smith.

Dan Klumper

As students begin using technology at younger ages, it is important to start teaching more about the technology earlier and earlier, Smith explained.

"I think it's important to hit the middle schools especially, and high schools along with it, because students are often unaware of the types of jobs you can get with cyber security and computer science. It's not just sitting in a cubicle writing code all day," Klumper said.

There are cyber and technology jobs in most every field, Honomichl said. "You can work anywhere, [for example] if you want to work in a medical field, there are technology and security positions in hospitals."

As part of the grant, Dakota State was able to order resources for the teachers' classrooms, including: programming books for kids; microbits (a technology that allows students to write code); Edison (a programmable robot); and Raspberry Pi (a tiny computer to practice programming).

Five of the 19 participants in the CTE NSA grant enrolled in Dakota State's Master of Science in Educational Technology (MSET) program.

The collaborators hope to continue to expand the entire area of K-12 cyber education in the state of South Dakota through more grants and faculty and staff support, according to Pauli.

Master of Science in Education Technology

A 30-credit online program focusing on integrating technology in education. More info at *DSU.edu*.



ELEMENTARY EDUCATION NOW OFFERED THROUGH

The goal of the new elementary education opportunity through Dakota State's College of Education is to offer an online program to paraprofessionals and others already working in elementary education.

By targeting people already working in school districts, College of Education Dean Dr. Crystal Pauli hopes the program, approved by the South Dakota Board of Regents in October 2018, will bring more teachers to rural districts.

"Notoriously, a rural school district has an opening and gets a teacher with no ties to the community, who will spend a year or two in the community and then leave," Pauli said.

This program offers the opportunity for students already ingrained in rural communities and rural school districts to complete schooling without leaving their community. In this way, small communities can develop the resources they already have and strengthen their communities. Pauli hopes this new offering will make a teaching degree more accessible, and will help with the shortage of teachers in South Dakota and America.

"For most of my married life we lived in small towns and I didn't really have access to finish my teaching degree," Pauli said of her own experience. "Everybody should have the opportunity to fulfill their dreams. My dream was to be a teacher. I want that for other people, too."

English as a new language minor

"Our state is becoming more diverse and is seeing more children for whom English is not their first language," Pauli explained. "So, it's important that our graduates are able to be effective in the classroom with all children."

The minor expands the course "Teaching English as a New Language," which was added to the regular education curriculum a few years ago. "The 18-credit program offers another layer of training for students, making them even more employable and ultimately better prepared as teachers," Pauli said. It includes a mixture of classes already offered, along with a few new ones, taught by existing faculty; an adjunct will be hired to teach the linguistics course. Those in the program will spend time in a classroom working with a teacher whose primary position is working with children for whom English is a new language.

Alumni will also be able to take the minor courses to add an endorsement to their license.

ACHIEVEMENTS MATTER Especially at DSU

On March 26, 2019, Dr. Clyde Brashier was the first inductee into the Dakota State University Academic Hall of Fame.

Dr. Clyde Brashier earned a B.S. in botany from Louisiana Tech University in 1955, an M.S. in botany from the University of Nebraska in 1957, and a Ph.D. in botany from the University in Nebraska in 1961. After finishing his Ph.D., he became a Professor of Biology at University of Wisconsin-Superior, before coming to Dakota State College in 1967 as Chair of the Division of Science & Mathematics.

During his tenure, he authored 17 successful grants from a number of nationally recognized organizations. Many of his grants addressed issues in science education, environmental education, and water research.

Dr. Brashier retired in 1992 and currently lives in Mississippi.

Congratulations Dr. Brashier!

OUR ACADEMIC HALL OF FAME APPLAUDS THE EXPLORATION, RESEARCH, AND CREATIVE WORK AT DAKOTA STATE UNIVERSITY. WE LOOK FORWARD TO HONORING OUR FUTURE INDUCTEES AND CELEBRATING THEIR RESEARCH AND CREATIVE ACHIEVEMENTS.

college of education FACULTY SPOTLIGHT



Dr. Jennifer Nash

Nash earned a B.S. in Biology at Minnesota State University—Mankato and her Ph.D. in pharmacology at the University of Minnesota. She believes the key to a successful classroom is to create a positive class culture, and offer innovative methods for students to learn content and practice higher-order thinking skills. She is passionate about increasing teacher confidence to teach science, and finding ways to elevate the profession of teacher education in the state. Her research interests include science and STEM education, content-area reading, as well as online education.



Dr. Gabe Mydland

As a member of the College of Education faculty, Mydland teaches General Psychology, Lifespan Development, Human Relations, and Abnormal Psychology. He also works closely with the staff of the Student Success Center to help students meet their academic potential. Mydland has a bachelor's degree from Augustana College, a master of science degree from South Dakota State University, and a doctorate in education from the University of South Dakota.



Dr. Kevin Smith

Smith teaches math education, STEM, and educational technology courses, and is program coordinator for the Master of Science in Educational Technology degree. He has a doctorate in instructional design and technology from the University of Memphis, a master's degree in instructional technology from the University of Nebraska, and a bachelor's degree in mathematics education from Dakota State. Before coming to DSU, he was a high school math teacher in Columbus, Nebr., and a learning technologist and instructional designer for the Federal Reserve Bank of St. Louis and the Council for Economic Education.



Dr. Scott Staiger

Staiger received his Ph.D. in Human Development and Education (wellness emphasis) from North Dakota State University. He is an associate professor of exercise science in his ninth year at Dakota State University. He is an active member of the American College of Sports Medicine and the National Strength and Conditioning Association. His research interests include technology in sports, and physiological aspects of sports performance.



Dr. Scott Klungseth

Klungseth is an assistant professor of education and the faculty athletic representative. He specializes in kinesthetic learning strategies and the integration of physical movement with academics to enhance learning, behavior, and the classroom environment. He has been recognized as a "Top Presenter" at the National Afterschool Association Conference, at the YMCA of Central Florida Summer Training Institute, and at the SHAPE America National Conference. He also serves as the Director of the Watchdogs and Wellness Initiative, a collaborative partnership combating negative health issues throughout the lifespan in the Beresford, S.D. area.

CAMPUS NEWS

DSU biology student Vaille Swenson is the lead author on a scientific paper featuring research inspired by an Instant Pot[®].

LEINEN, SWENSON PUBLISHED IN SCIENCE JOURNALS

Undergrads achieve rare milestone as lead authors

DSU undergraduate student Lucas Leinen knows more about preserves than he ever thought he would.

This senior from Aberdeen, S.D. experimented with 1950s homemade goods canned last summer, part of his work as a summer research fellow. He analyzed several samples a day using a gas chromatograph-mass spectrometer, or GC-MS. This piece of scientific equipment separates and analyzes volatiles, which are the gaseous compounds released when canned goods are opened. What Leinen learned by studying these volatiles was published in February in a special edition of the international scientific chemistry journal "Molecules."

"Lucas's paper is an invited paper, an extremely rare achievement for an undergraduate," explained Dr. Michael Gaylor, associate research professor and Leinen's research mentor.

The department will also use the research as part of another project that began in 2016, when the department was given a jar of preserved pumpkin prepared in 1920. The 100-year-old contents of that jar could offer some interesting insights into the chemical environment in which the food was prepared, but before the student researchers open the rare jar, they needed to "develop a repeatable method," of the experimental process, said Leinen.

Vaille Swenson, a senior biology major, took her 2017 Christmas gift of an Instant Pot[®] and turned it into published scientific research. She realized the popular pressure cooker replicated a lot of the conditions of a piece of equipment commonly used to sterilize equipment in scientific research, an autoclave. She ran experiments with four pressure cookers and discovered that only the Instant Pot killed geobacillus spores, a type of bacteria that have a high heat-tolerance, and are used to test commercial autoclaves.

She wrote about her results in an article published this winter by PLOS (Public Library of Science), concluding that "store-bought pressure cookers can be an appropriate substitute for commercial autoclaves." This information can be used by schools to introduce microbiology to students, or for grossly-underfunded research labs to do microbiology safely, she said.

"For such an impactful study to be conceived, designed, and conducted almost entirely by an undergraduate student makes this scholarly contribution even more meaningful," said Gaylor.



Lucas Leinen is lead author on a scientific paper based on summer research he conducted with foods preserved in the early 1950s in South Dakota.



Logan Stratton took 2nd place in the silver bracket and 28th overall in the Fall 2018 NCL competition.

DSU student achieves top rank in cyber competition

Logan Stratton was just trying to learn something new when he took part in the Fall 2018 National Cyber League (NCL) competition, but apparently, he already knows a lot about cyber operations. The Luverne, Minn. native placed 2nd in the silver bracket, and 28th overall out of 2,450 competitors. Students in this 30-hour competition are divided into three groups by level of experience—gold, silver, or bronze; silver is for intermediate students.

"NCL is a great learning opportunity," Stratton said of the competition. "It is an opportunity to develop interests in new topics."



Dr. Yong Wang

UNDERGRAD RESEARCH GRANT CREATES COMPLETE CYBER EDUCATION PIPELINE

REU grant for cyber research awarded to DSU professors

One more piece of the cyber education pipeline is now in place at Dakota State University.

Dakota State has had K-12 cyber outreach for over five years, through its CybHER program and popular GenCyber camps. Last fall,

a grant from the National Science Foundation (NSF) added research traineeship opportunities for graduate students.

The university has now been awarded just over \$357,000 by the NSF to provide Research Experiences for Undergraduates, or REUs. The grant is for a three-year period beginning March 1, 2019 through Feb. 28, 2022.

"This fills in the undergraduate piece so now we have the whole pipeline," said Dr. Yong Wang, associate research professor in The Beacom College of Computer and Cyber Sciences and the grant's principal investigator. "It perfectly shows our strengths."

The grant proposal described that "there has been a missing link between cyber security research and cyber security education in the classroom," due to a lack of research opportunities. This grant will help bridge that gap, the proposal states.

The students chosen for these 10-week, summer REUs will research a variety of issues involving the Internet of Things (IoT). IoT includes any devices connected to the internet, such as home routers, cable modems, and smart locks.

The REUs are open to all undergraduate students, Wang said, but will target some specific audiences, particularly students from institutions in states with no Centers of Academic Excellence (CAE). These would include schools in North Dakota, Montana, and Wyoming. DSU has three such distinctions, and is a CAE regional resource center. The organizers also encourage women to apply for the REUs.

The first group of student researchers will be on campus this summer.



Dr. Ben Jones

DR. BEN JONES APPOINTED INTERIM SECRETARY OF EDUCATION

Dr. Ben Jones, dean of the College of Arts and Sciences at Dakota State University, is the Interim Secretary of Education for the state of South Dakota by Governor Kristi Noem. Jones has been dean since 2013.

"We are excited for this opportunity for Dr. Jones.

His experience with post-secondary education will bring valuable insight to the education department," said Dr. José-Marie Griffiths, president of Dakota State University.

"Governor Noem has asked me to work on ways to improve

school performance with an initial focus on civic education," Jones said. "I will also develop a plan to increase transparency and accountability within the Department of Education."

"The State Historical Society and the State Library are also within the responsibilities of the Secretary and I am excited to look for ways those two agencies can be a greater resource for South Dakotans," Jones stated.

"I am honored to serve the state in this role," Jones added, "and I look forward to returning to campus in May."

Jones began his six-month leave of absence from the university on January 5, 2019. Dr. Judy Dittman, associate provost/title III director, is serving as interim dean of the College of Arts and Sciences.

CAMPUS NEWS



DSU CYBERFORCE TEAM

The six members of Dakota State University's defensive security competition team have a major accomplishment to add to their résumés.

Peter Engels, Hunter DeMeyer, Kyle Korman, Chris Loutsch, Austin Fritzemeier, and Micah Flack made up the DSU team that placed fourth in the nation at the December 2018 CyberForce Competition. This contest is sponsored by the Department of Energy.

The DSU students scored higher than teams from Purdue University, Brigham Young University, and the California schools



of UC-Davis and UC-Berkeley. Out of the 64 teams competing, the University of Central Florida took first, Kansas State finished in second place, and Oregon State third.

Engels is a senior network and security administration major from Minneota, Minn.; DeMeyer is a junior computer science major from Solon, Ohio; Korman is a junior cyber operations major from Grand Forks, N.D.; Loutsch is a junior cyber operations major from Milbank, S.D.; Fritzemeier is a junior cyber operations major from Brookings, S.D.; and Flack is a cyber operations junior from Bemidji, Minn.



FIRST BANK AND TRUST DAKOTA STATE ART GALLERY **TEOPENS**

The First Bank and Trust Dakota State Art Gallery is now open in its new location on the second floor of the Karl E. Mundt Library.

This new location is bigger and better equipped than the former location on the library's first floor, with features including track lighting and a new 4K projector.

"I envision it being used by contemporary artists who want to use film, video, or sound," said Alan Montgomery, art professor and director of the First Bank and Trust Art Gallery. The space can be used for visual art, and also poetry readings and one act skits, he added.

Several events are already scheduled in the space, including faculty exhibits, visiting artists' shows, and Beadlemania in the spring. This annual student juried art exhibition features senior digital arts and design student projects.

Montgomery's goal is for everyone is to see the gallery as a resource for the community, and particularly for DSU students. "It will expose them to work that challenges the notions of what that might be," he said, inviting everyone to "come into the gallery and lose yourself for a while."



THREE FACULTY FEATURED IN SD GOVERNOR'S BIENNIAL ART EXHIBITION

Three DSU faculty—Angela Behrends, Thomas Jones, and Tim Orme—have artwork featured in the South Dakota Governor's 8th Biennial Art Exhibition. There were 298 entries from 112 artists submitted for the show, and 70 works from 64 artists selected for the show, according to Jodi Lundgren, Curator of Exhibitions at the South Dakota Art Museum.

The works can be seen at four venues in South Dakota through Jan. 19, 2020:

South Dakota Art Museum in Brookings Jan. 25–April 20 John A. Day Gallery in Vermillion Aug. 30–Oct. 11

Dahl Arts Center in Rapid City May 2–Aug. 17 Washington Pavilion in Sioux Falls Oct. 26–Jan. 19

GENERAL BEADLE, WWI MONUMENT FIND NEW HOMES ON CAMPUS

Two historic bronze monuments now have new homes on the Dakota State University campus.

The statue of General William Henry Harrison Beadle was relocated just north of the Tunheim Classroom Building (TCB); the 1921 World War I memorial was relocated to its new home just south of the campus rose garden.

The statue of DSU's third president and the four-ton boulder bearing the names of students who served in World War I spent many years in front of Lowry Hall. They were removed in February 2018 in advance of construction for the new Madison Cyber Labs.

Darwin Wolf, a sculptor from Sioux Falls, worked on the monuments over the summer; he used solvents to clean the bronze works, and then applied a wax coat. He will also provide annual maintenance to preserve the bronze in the future.

On November 26, a crew from Orion Rigging Company placed the monuments in their new locations, spots determined by a university committee chaired by Dr. Ben Jones, dean of the College of Arts & Sciences.



General Beadle's monument is located near the building named in his honor, Beadle Hall, on the DSU campus.

"It's good to have one of the state's founders visible again," said Jones. "Statues, museums, and artwork keep us in touch with who we were, who we are, and who we are going to be," he stated. Wolf agreed. "This type of art is necessary to keep our history in our view," he said.

Jones also noted that the location near Karl Mundt Library, Madison Cyber Labs, TCB, Habeger Science Center, and Beadle Hall "places General Beadle in his element of the past while pushing toward the future, a future he had a hand in creating."

GRIFFITHS NAMED TO NEW AI COMMISSION

Dakota State University President José-Marie Griffiths has been selected by Sen. John Thune to serve as a member of the newlyformed National Security Commission on Artificial Intelligence.

The 15-member commission is part of the John S. McCain National Defense Authorization Act for 2019. The independent commission was established to review advances in artificial intelligence, related machine learning developments, and associated technologies.

Griffiths said "Artificial intelligence is incredibly important to

the fabric of our nation's computing, technology, and cyber infrastructure. Through the work of this committee, we will have an opportunity to know where our nation stands as the technology progresses, who the key players are, and how we compare to other countries."

Griffiths will bring a unique academic perspective to the committee. "This will be an opportunity to ensure that all sectors have a voice on the issues pertinent to artificial intelligence," she said.

Griffiths has previously testified at hearings of the Senate Committee on Commerce, Science and Transportation, including a hearing on 5G technology held in October 2018. Thune is chairman of that committee.



ADVANCING THE MISSION

The mission of the DSU Institutional Advancement division is to provide scholarships and support for our students.

SINGLE-PARENT SCHOLARSHIP IS ALL ABOUT GIVING BACK



Judy Payne is an advocate for giving back.

When she attended Dakota State University, the Madison native was a non-traditional student and single mother, working in an office at a local egg and poultry company, Wenk's Produce.

Because it was a good job, she chose to keep working while taking lunchtime and evening classes to earn a business administration degree.

"The amazing thing about DSU is that the professors cared so much about my getting my education and my degree. They would go to the Nth degree," she said, scheduling meetings in the evening for tests or tutoring.

"That they would recognize the need and care that much meant the world to me, and it does to this day," Payne stated.

As soon as she could after her graduation, she started donating to Dakota State. "It's important to give back," she said.

Because she had chosen to keep working as a student, she made too much to qualify for financial assistance. "There wasn't financial aid for someone in my position," she said, so she started a scholarship geared to single parents. First-hand experience led her to intentionally require a lower GPA, of 2.5, "because as a single parent, they are often working, too, and that's difficult."

She recalls one of the recipients of the Judith M. Payne Annual Scholarship. "We kept in contact for a while. She had a second

child, found a great job, and was so appreciative. That means the world to a donor."

Payne recommends other alumni and friends of the university give back through donations or scholarships. "It doesn't take much to start," she said, suggesting "just give up one expensive coffee a week. You won't miss it."

But students would miss having the degree. "That little piece of paper from DSU was invaluable," Payne said.

Her education from DSU, along with work in community organizations, caught the attention of Bill Janklow, a former state attorney general who had been elected governor by the time she graduated from DSU in 1981. Janklow asked her to join the staff of the Department of Revenue, and she rose to become Secretary of Revenue. In 1987, she became the State Risk Manager, developing the Public Entity Pool for Liability. In 2005, Gov. Mike Rounds appointed Payne Secretary of the Department of Transportation.

After she retired in 2007, she joined the DSU staff as Vice President for Advancement for three years, and then worked with the South Dakota Public Assurance Administration. All totaled, she worked for the state of South Dakota for 26 years, serving under four governors. She is now retired and lives in Sioux Falls, but "Madison and DSU are near and dear to my heart," she said.

"I am so impressed with the direction DSU is going, and how successful students are. It's something to be very proud of."

The Financial Aid and Admissions offices can provide students with information about scholarships, as can the deans of each college. For additional details, contact Jill Ruhd, Development Officer with University Advancement at 605-256-5650 or jill.ruhd@dsu.edu, or check the DSU Foundation website at dsu.edu/about-dsu/foundation.





What is the DSU FOUNDATION?

by Mark Millage, Vice President for Institutional Advancement and Marketing and Communication

My first eight months as vice president at the DSU Foundation have been a whirlwind of people, policies, and programs. The Foundation is the philanthropic arm of Dakota State University. We turn vision into reality and help make dreams come true for donors and students alike.

With guidance from savvy financial advisors, the Foundation manages a growing scholarship portfolio. As enrollment grows at DSU, so too does the urgency for student scholarship support. Our Champion Scholarship program alone is forecasted to grow by more than 45 percent in the next year—topping more than \$1,000,000 in financial awards for the first time in school history!

Our team of development officers works with individual and corporate donors, both alumni and friends of DSU, to raise these monies through one-time gifts and endowments. With a rich history dating back 138 years, Dakota State University is fortunate to have many loyal supporters across the country and around the world. Yet our most enduring relationships continue to be closest to home in Madison. While development officers are fundraisers, the Alumni Office (also housed at the Foundation) serves more in a "friend-raising" capacity. One responsibility of every member of the DSU Foundation team is relationship building. As alumni, friends, or employees of Dakota State University, we are united as Trojans. To support this effort, the Foundation hosts regular events on-campus, regionally, and nationally to showcase the many exciting initiatives underway and under review at DSU.

The DSU Foundation plays an important role in sustaining growth and progress on campus. The Beacom Institute of Technology and the Madison Cyber Labs, the purchase of the former Heartland Technology Center, and the capital campaign for the Athletics Facilities Master Plan all rely on some level of assistance from the Foundation. The Foundation has a hand in countless academic initiatives as well by financially supporting the work of students and faculty inside and outside the classroom.

As friends and alumni of Dakota State University, there are many opportunities throughout the year to support the work of the



Foundation (and, in turn, the important work of our students and faculty):

- Financial support is always needed. As mentioned earlier, growing enrollment necessitates the need for more scholarship dollars. More support is also needed to repair or replace our aging facilities. Our Foundation team can work with you to match your interest with greatest need.
- Attend a DSU event. The academic, athletic, and Foundation/ Alumni communities host events throughout the year—many on campus, and many in your community. Watch your mail or monitor our events calendar at DSU.edu for opportunities to engage and learn more.
- Volunteer to serve on a campus committee or advisory board. We are always in need of a fresh perspective, and our alumni offer some of the best mentoring and networking opportunities for our students. In addition, our Alumni and Foundation boards are actively recruiting new members. Please contact me if you'd like to start a conversation.

As noted earlier, I am the new kid at the DSU Foundation. But in my short time I have been blown away by your enthusiastic support of this great institution. It is clear that by working together we will make great things happen for the DSU students of today and tomorrow!



You can make a simple yet transformational gift through your will or estate that costs you nothing in your lifetime.

> Contact a development officer at Dakota State University to discuss the possibilities. Jona.Schmidt@dsu.edu | 605.256.5857

Members and friends of the DSU Cricket Club include: RamTeja Kantipudi (back left); Bojja Giridhar; club vice president Ganga Basyal; Provost Scott McKay; Piyush Vyas; Hemanth Kota; Director of International Programs Nicole Claussen (front left); Prashanth Gurappagari; club treasurer Kaushik Nagarajan, club captain and president Rajesh Godasu, vice president Loknath Sai Ambati, club secretary Akhilesh Chauhan.

ATHLETICS

CRICKET CLUB PROVIDES LIFE BALANCE FOR GRAD STUDENTS

Today's technology fields are exciting, but several Dakota State University graduate students also like to spend time on another field—a cricket field, or a pitch, as it is called.

"We have a passion for cricket," said Rajesh Godasu, president of the new DSU Cricket Club. His own interest in the bat and ball sport prompted him to find other cricket players at DSU, all students from India who are master's degree students in data analytics or doctoral candidates in information systems.

Club members agree that the love of cricket is in their roots, as they have been brought up with it. Many look up to sports role models such as the "God of cricket" Sachin Tendulkar.

"We are all really motivated with the game," said Ganga Basyal, club vice president. Their academic studies keep them busy, but the sport gives a balance to their work and study, he said.

The club has played in tournaments in Sioux Falls and Omaha, and even held a cricket game last fall in Madison.

"It was probably the first-ever cricket game in Madison," Godasu said. "We give credit to Madison, because the city was very helpful providing us access to Flynn Field."

The university has been supportive as well, with the Provost's office providing funds for the club's travel and for team t-shirts.

When Dr. Scott McKay, provost and vice president for academic affairs, learned about their interest in the sport, he suggested they form a club to give them a sense of community.

"This is a great way for them to get together and travel and socialize through the region, and a great way for them to feel connected to the university," he said.

The club members have been practicing indoors over the winter, focusing on basics such as fielding, batting, and balling.

"Work on these fundamentals will show in league matches next summer," Godasu said.



Cross Country Head Coach Anthony Drealan, winner of the 2019 NSAA Indoor Track & Field Coach of the Year.

DREALAN IS Coach of The Year

Anthony Drealan was selected as the North Star Athletic Association (NSAA) Indoor Track & Field Men's Coach-of-the-Year after guiding the Trojans to its first-ever conference title, ending Dickinson State's (N.D.) 4-time champion. Dakota State tallied a team record of 194 points to claim the men's conference title.

This award and other honors were presented at the conclusion of the NSAA Indoor Track & Field conference championship at Sanford-Jackrabbit Athletic Complex in Brookings, S.D. on Feb. 16.

Drealan was also named the NSAA men's cross country coach of the year in 2018.

COACH, ALUMNI INDUCTED INTO TRACK & FIELD HALL OF FAME

Former long-time head coach and two Dakota State alumni were inducted into the 2019 South Dakota Cross Country and Track & Field Coaches Association (SDCCTFCA) Hall of Fame class on Feb. 23. The induction ceremony was held at the South Dakota National Armory.

Buzz Stevenson coached in high school and collegiate levels in South Dakota. He was active for 45 years, including 25-plus years at DSU. He has been inducted to the Dakota State University, Yankton College, and Huron High School Halls of Fame. He also received the Dan Lennon Award in 2017.

Stevenson's teams have accumulated 14 South Dakota Intercollegiate Conference (later became the South Dakota-Iowa Conference or SDIC) championships and his athletes have produced over 60 All-American honors.



Gene Danielson (left), Buzz Stevenson, and Tom Main were inducted into the South Dakota Cross Country and Track & Field Coaches Association Hall of Fame in 2019.

While at DSU, Stevenson has garnered 14 SDIC Coach-of-the-Year titles and two NAIA Great Plains Regional Cross-Country Coachof-the-Year awards.

Two Dakota State alumni also were inducted into the SDCCTFCA Hall of Fame. Gene Danielsen ('68) coached at McCook Central High School for over 30 years and finished as state runner-up four times and won 13 region championships. Danielsen was inducted into the DSU Athletic Hall of Fame in 2007.

Tom Main ('70) coached Chester High School to five track and field state championships in his 39 years of coaching. Main and his teams also won 16 regional titles and 21 conference championships.



CLASS NOTES

KATAHDIN ELEVATION 5267 FT

APPALACHIAN TRAIL

an Sevenhall PAMOLAHEAK VIE KNIFE EDGE CHIMNET POND CAMPGROUND VIE SADDLE RGARING BROOK CAMPGROUND VIE SADDLE KATAHDIN STREAM CAMPGROUND ABOL CAMPGROUND SPRINGER MOUNTAIN, GEORGIA via the A.T.

BAXTER STATE PARK

Peter Krentz '11, hiked the entirety of the Appalachian Trail (2,190 miles) on Mount Katahdin in Maine from March to August of 2018. Krentz blogged about his journey on the trail and is currently writing a book about his experiences. To read his blog visit: prophetsadventures.com.

5.75 5 5 2,189.1



ICELAND SCENERY IMPRESSES DSU FRIENDS AND ALUMNI

Spring break is stereotypically a time to take a vacation to warmer climates.

Forty Dakota State University alumni, faculty, staff, students, and friends did just that this spring break, but the warmer location was not a tropical beach but the "land of fire and ice," Iceland.

The group, ranging in age from 20 to 80, enjoyed temperatures that were warmer than in Madison as they toured the entire island on the "Ring Road," seeing waterfalls, geysers and hot springs, lava fields, the island's black sand beaches, and the Northern Lights.

Visiting other countries is an educational experience, said Dr. Deb Tech, associate professor of marketing and the coordinator of the trip. Seeing new landscapes, such as the UNESCO (United

Nationals Educational, Scientific and Cultural Organization) site at Iceland's Thingvellir National Park where the world's first democracy was established in 930 A.D., and the North American and Eurasian tectonic plates drift apart from each other. It also provides an opportunity to meet people of other cultures, giving travelers a sense of the world's rich diversity.

Over the past few years, groups from DSU have traveled to Peru, Cuba, and Indochina.

"These trips provide opportunity to meet people in the DSU community and build relationships," she said. For example, "we meet online students that have never set foot on campus."

A 2020 trip is tentatively planned for England and Ireland.

LOOKING BACK: 90 YEARS OF THE NATIONAL GUARD IN MADISON

Company A, 109th Engineer Regiment

Alumnus Michael Reiprich, chief information officer for the South Dakota Air National Guard, recently sent some information and photos to the Alumni Office.

"It was just after World War One that the Madison unit of the South Dakota National Guard became an engineer unit, a tradition that has lasted for nearly a century. On March 15, 1922 Company D, Second Battalion, 136th Engineers (Combat) entered the force structure with Capt. Richard J. Lyons as Commander. It was later re-designated as Company A, 109th Engineer Regiment (Combat) on January 1, 1924.

The following officers have commanded this organization since its reorganization: Capt. Richard J. Lyons, March 15, 1922 until March 13, 1925; Capt. Floyd Benway, March 14, 1925 until December 31, 1928. Capt. Parker W. Newcomb assumed command the unit from January 1, 1929 and was still the commander when these photos were taken in 1938.

On December 20, 1938, photos were taken of the enlisted men of Company A, 109th Engineer Regiment stationed at Madison, S.D.



1938 Company A, 109th Engineer Battalion, Madison, SD

1st row, from left: Faye Crabbs, Kenneth Koehne, Irving Lee, Robert McDonald, Joe Graves, Leslie Beck, Leonard Erickson, Vernon Eggebraten, and Glen Herting.

2nd row: Albert Gorman, Robert Ellis, Donan Fisher, Elwood Simpson, Lloyd Sherwood, Arthur Hinsvark, Orlo Norfjor, Leonard Price, and Howard Sharp.

3rd row: Sheldon Christensen, Gerhardt Erion, Bryon Hanson, Robert Stubben, Lawrence Kruger, Kermit Hanson, Bruce Wheeler, Richard Johnson, and John Bowen.





ACCOMPLISHMENTS

Ray Peterson '68

(Education)

was inducted into the South Dakota Hall of Fame in September of 2018. A group of his classmates from General Beadle State College was on hand to congratulate him at the ceremony in Chamberlain, including Dale Schmidt '66; Terry Nelson; Linda Petheram Nelson '67; Dennis Bossman '66; Gloria Riecke Schmidt '67; Beryl Braford Bossman '66; and Sandra Moose '66.



Joyce Farrell '70 (Education)

was inducted in to the South Dakota Volleyball Coaches Association Hall of Fame, November 2018. She is a member of the Dakota State University Hall of Fame.

Josh Hogue '05

(Business Management and Marketing) promoted to Senior Vice President at Reliabank in Watertown.

April Denholm '06

(English for New Media) named 911 director for Lake County, S.D.



Wade Merry '79 (Business Administration)

has been elected to the South Dakota Golf Hall of Fame. Merry became the fourth person to be named executive director of the South Dakota Golf Association (SDGA) when he was hired to replace Jay Huizenga in January of 2005 and is the 59th member of the Hall of Fame. During his tenure as executive director from 2005-2018, the SDGA expanded its offerings of championship golf in South Dakota, developed an annual golf expo and created a permanent home for the South Dakota Golf Hall of Fame. Merry was also instrumental in the growth of the SDGA Junior Golf Foundation, which oversees junior golf and The First Tee of South Dakota, a statewide youth development initiative serving more than 26,000 young people across the state. Merry also worked for the Argus Leader and served as sports editor before his time at SDGA. He is now a development officer at the DSU Foundation.

Dave Anderson '97

(Management) has joined the PGA REACH foundation as director of development.

Shane Scholten '97

(Fitness Wellness Management) has been promoted to associate professor of exercise and sport sciences and granted tenure at Augustana University in Sioux Falls, S.D. He served as interim department chair and currently serves as an elected member of the Co-Curriculum Council.



David Preheim '03 (Computer Education)

named Southeast Area Assistant Principal of the Year.

Dr. Josh Pauli '02, '03

(Computer Information Systems, Master of Science in Information Systems) has joined the LifeScape Board of Directors. Pauli is currently the Vice President for Research at Dakota State University.

Jennifer Reecy '99

(Education, Special Education) is chief employee experience officer at First National Bank in Sioux Falls.

Ron Flynn '72

(Education) was inducted into Irene-Wakonda Hall of Fame.

CLASS NOTES



Floyd Rummel '03

served for six years as the chair of the Dakota State University Foundation Board of Trustees. He stepped down at their spring meeting and was succeeded by new chair Suzy Collignon-Hodgen '98. He will remain on the board as a regular member.

Andrea Lindberg '07

(Professional Accountancy) named Real Estate Loan Officer for Dakotaland Federal Credit Union in Watertown.

Tom Pischke '04

(Computer Information Systems) re-elected to as District 25 House of Representatives.

Dewayne Higgs '11

(Master of Science in Information Systems)

Computer Information Systems program coordinator at Amarillo College (TX) named as Top 20 under 40 by Amarillo Chamber of Commerce in November 2018.



Jared Truman '16

(Computer Graphics) has joined the marketing sublimation specialists team at JDS Industries in Sioux Falls. Truman brings more than a year of experience with sublimation.

Shantel Krebs '98

(Business Administration) has been named the administrator of Avera Academy, a new dual-credit program expected to launch next school year.



Jordan Schuh '11

(Cyber Operations)

DSU's student support counselor and autism specialist, was named the winner of the 2019 South Dakota Higher Education Association Marcus Boesen Memorial Award, for outstanding contributions to the overall development of students, to their educational institution and to South Dakota Higher Education Association and/ or student affairs.

Brian Corlett

former instructor in the College of Education, has been hired as Colman-Egan (S.D.) School superintendent.

WEDDINGS/BIRTHS

Sarah Sproul Hatcher '15

(English for New Media) married Alex Hatcher on March 17, 2018. She has been the Lead Content Writer at Weisser Distributing in Tea, S.D. since January 2017, and in August 2018 Alex jumped onboard at Weisser as MIS Data Analyst and IT Guru.



Jayda Swenson '15 (Education) Justin Templeton '16 (Biology) were married June 22, 2018 in Watertown.



Christopher Raymond '04 (Computer Science) and wife Jennifer had a baby girl, Elizabeth Rose, on Dec. 4, 2018. She weighed 7 lbs. 11 oz., and measured 20 inches long.

IN MEMORIUM

- Steven Anderson Paul James Salem Max Schrader Cheri D. Siegfried Steven Jon Frislie Fred Smith Jerry Dragseth
- Lynne M. Rick Rosalie Ann Lemme Ardell Thurow David C. Karlen Margaret Ruckdaschel Derrick Olson Dustin Patch



Institutional Advancement 820 N Washington Ave Madison, SD 57042 605-256-5693

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GIVE. GATHER. GROW.

31st Annual Gala 2019. 1st Annual Day of Giving.



\$58,774.14 Giving Day total \$109,560 Gala total

First PREMIER Bankcard/ PREMIER Bank

> Journey Group Lawrence & Schiller

High Point Networks JLG Architects Avera Health DA Davidson East River Electric Power Cooperative Fujitsu Great Western Bank SDN Communications Innovate Nonprofit