NDSU | COLLEGE OF ENGINEERING

COLLEGE HAPPENINGS

October 2, 2018

FROM THE DEAN

Family Educational Rights and Privacy Act (FERPA)

On Sunday I celebrated my 44th birthday with my family. I like birthdays, but I think too many can kill you.

The same year I was born, 1974, congress passed the Family Educational Rights and Privacy Act (FERPA), and every faculty and staff member should know some basic principles in the act. Essentially, in your role as a faculty or staff member at a university, you are legally responsible under FERPA to protect the confidentiality of student educational records. You may not release lists or files with student information to any third party outside of the university, because educational records are considered confidential and may require written consent of the student. Such information should be stored securely (this includes electronic files) and should only be available to those entitled to access that information.

Here are some examples of things that you should not do because of your obligation under FERPA:

- Do not link the name of a student with their University ID number, or use the University ID number of a student in a public posting of grades or other information.
- Do not leave graded tests, papers, or other student materials for students to pick up in a stack that requires sorting through the papers of all students.
- Do not discuss the progress of any student with anyone other than the student or necessary university employees (*including parents*) without the consent of the student (there are certain exceptions, including health and safety emergencies).
- Do not access the records of any student for personal reasons.

Additional information about FERPA at NDSU is available in the document "FERPA: What faculty and staff need to know" at https://www.ndsu.edu/registrar/records/ferpa/. If you have any questions regarding access to or release of student records, please talk with your department chair, or contact the Office of Registration and Records.

IN THE NEWS

Researcher honored for work to improve America's electric grid

Making pipelines safer through research

NDSU hosts 50th annual National Power Symposium

North Dakota farmers struggle to store soy

NDSU Department of Construction Management and Engineering, professor recognized

CONGRATULATIONS

Abhishek Banerjee, a Ph. D. student in the **Department of Electrical and Computer Engineering**, won two best paper awards at the recent North American Power Symposium hosted by NDSU.

Please let *College Happenings* know about honors, awards, new grants and other announcements so we can share them with other faculty and staff.

UPCOMING EVENTS

Thursday, October 4th, **College of Engineering Scholarship and Awards Reception**. 3:00 p.m. – 4:30 p.m. at the NDSU Memorial Union Great Plains Ballroom. This event will be a celebration of our student scholarship recipients and donors along with faculty and graduate student award recipients.

Friday, October 5th, **ABEN Seminar Series**. "Transitioning from Academia to the Industry" with Juan Vargas-Ramirez. 3:00 p.m. in ABEN Room 224.

UPCOMING CONFERENCES

NDSU-UND Biomedical Engineering Symposium: Industry Meets Academia

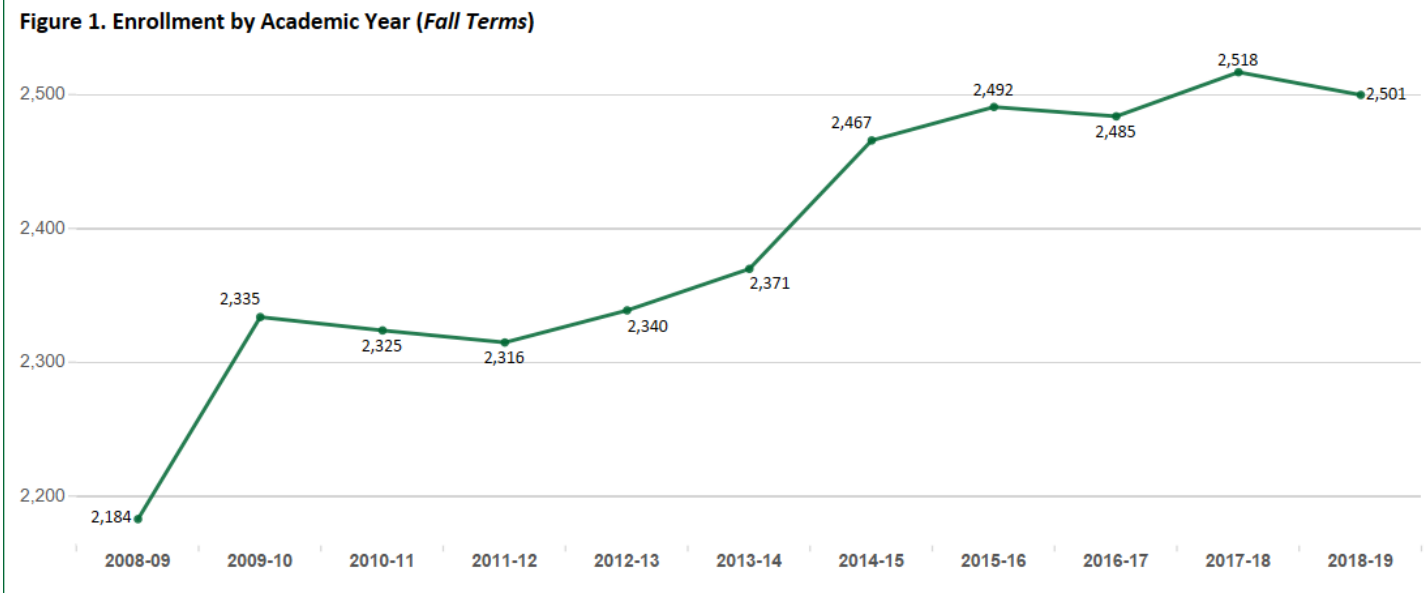
Monday, October 22 at the UND Memorial Union.

A symposium to promote the joint Biomedical Engineering graduate programs and strengthen the collaborations among UND/NDSU faculty and industries. The symposium will provide new opportunities to broaden relationships leading to the development of BME collaborative/competitive research projects and proposals that require interdisciplinary participation, especially from industry.

Please encourage your graduate students to participate in the poster presentations. Registration is free and can be completed online. The deadline to register is October 11.

BY THE NUMBERS

College of Engineering Fall Enrollment



FUNDING OPPORTUNITIES

NSF: Computational and Data-Enabled Science and Engineering

The goal of the Computational and Data-Enabled Science and Engineering (CDS&E) program is to identify and capitalize on opportunities for major scientific and engineering breakthroughs through new computational and data analysis approaches. The intellectual drivers may be in an individual discipline or they may cut across more than one discipline in various Directorates. The key identifying factor is that the outcome relies on the development, adaptation, and utilization of one or more of the capabilities offered by advancement of both research and infrastructure in computation and data, either through cross-cutting or disciplinary programs. The CDS&E program is not intended to replace existing programs that make awards that involve computation and the analysis of large data sets. Rather, the CDS&E program is meant to fund awards that have a significant component of cyber development or cyber science that goes well beyond what would normally be included in these programs.
Deadlines vary by program and division.

NSF: Industry-University Cooperative Research Centers Program

The National Science Foundation (NSF) Industry-University Cooperative Research Centers (IUCRC) program develops long-term partnerships among industry, academe, and government. The Centers are catalyzed by an investment from the NSF and are primarily supported by industry Center members, with NSF taking a supporting role in the development and evolution of the Center. Each Center is established to conduct research that is of interest to both the industry members and the Center faculty. An IUCRC contributes to the nation's research infrastructure base and enhances the intellectual capacity of the engineering and science workforce through the integration of research and education. As appropriate, an IUCRC uses international collaborations to advance these goals within the global context.
Required preliminary proposal deadline: October 17, 2018; full proposal deadline: December 19, 2018

RECENTLY FUNDED GRANTS

- Dilpreet Bajwa (PI). Bioinspired Tuning of Nano Cellulose for Creating a Safe Fire Retardant for Polymer Composites. $235,180 from NIST (National Institute of Standards and Technology). 01/02/2019 – 12/31/2021.

- Qifeng Zhang (PI). NDSU EPSCoR Internal Funding – Seed Award. $10,000 from ND EPSCoR. 09/27/2018 – 05/31/2019.
- Yao Yu (PI). NDSU EPSCoR Internal Funding – Seed Award. $9,982 from ND EPSCoR. 09/27/2018 – 05/31/2019.
- Huojun Yang (PI). NDSU EPSCoR Internal Funding – Seed Award. $10,000 from ND EPSCoR. 09/27/2018 – 05/31/2019.
- Di Wu (PI). NDSU EPSCoR Internal Funding – Seed Award. $9,987 from ND EPSCoR. 09/27/2018 – 05/31/2019.
- Danling Wang (PI). NDSU EPSCoR Internal Funding – Seed Award. $9,840 from ND EPSCoR. 09/27/2018 – 05/31/2019.
- Adam Gladen (PI). NDSU EPSCoR Internal Funding – Seed Award. $10,000 from ND EPSCoR. 09/27/2018 – 05/31/2019.
- Jerry Gao (PI). NDSU EPSCoR Internal Funding – Seed Award. $10,000 from ND EPSCoR. 09/27/2018 – 05/31/2019.
- Nita Yodo (PI). NDSU EPSCoR Internal Funding – Seed Award. $10,000 from ND EPSCoR. 09/27/2018 – 05/31/2019.

RECENTLY SUBMITTED PROPOSALS

- Sreekala G. Bajwa (PI). Advanced UAS/UAV Application Systems, Data Management Systems, and Bioinformatics Tools that Integrate GXEXM Data into Precision Agricultural Crop Management for Regional Relevant Crops. $872,000 from the Agriculture Research Service. 10/01/2017 – 09/30/2019.
- David Ray Steward (PI). NDSU Subaward: Mixed Approaches Towards Effective Collective Management of Groundwater Resources. $87,011 from the U.S. Department of Agriculture. 10/01/2018 – 05/31/2021.
- Beena D Ajmera (PI). Influence of Consolidation Pressure in Reducing the Shear Strength of Soils During an Earthquake. $150,000 from Johnson and Johnson. 08/01/2019 – 07/31/2022.
- Danling Wang (PI). New Sensor Device Based on a Novel Nanostructured 2D, Titanium Carbide, MXene for Application in Early-stage Pancreatic Cancer Diagnosis and Anticancer Therapy. $150,000 from Johnson and Johnson. 06/01/2019 – 06/1/2022.
- Akm Bashir Khoda (PI). Robotic Direct Writing of Mesenchymal Stem Cells for Treatment of Intracranial Aneurysms. $159,500 from the Mayo Clinic College of Medicine. 07/01/2019 – 06/30/2021.
- Dharmakeerthi Nawarathna (PI). Highly Parallel Radio Frequency Transfection of Single-T-cells for Manufacturing mRNA based CAR T-cells for Cancer Immunotherapy. $507,500 from the National Institutes of Health. 05/01/2019 – 04/01/2022.

RECENT PUBLICATIONS

For 2018, 89 publications by authors with the College of Engineering affiliation have appeared in various journals, according to the ISI Web of Science and submissions from faculty. Here are some of the most recent publications:

- Bajwa, Dilpreet S., Tyler Peterson, Neeta Sharma, Jamileh Shojaeiarani, and Sreekala G. Bajwa. 2018. “A Review of Densified Solid Biomass for Energy Production.” *Renewable and Sustainable Energy Reviews* 96 (November): 296–305. https://doi.org/10.1016/j.rser.2018.07.040.
- Grimm, Kendall, and Xuefeng Chu. 2018. “Modeling of Spatiotemporal Variations in Runoff Contribution Areas and Analysis of Hydrologic Connectivity.” *Land Degradation & Development* 29 (8): 2629–43. https://doi.org/10.1002/ldr.3076.
- Naik, Dayakar L., and Ravi Kiran. 2018. “Data Mining and Equi-Accident Zones for US Pipeline Accidents.” *Journal of Pipeline Systems Engineering and Practice* 9 (4): 04018019. https://doi.org/10.1061/(ASCE)PS.1949-1204.0000340.

College Happenings is distributed to the NDSU College of Engineering staff and faculty every other Tuesday.

Read past issues of *College Happenings* here.

Deadline for submissions to *College Happenings* is 12:00 p.m. Fridays.

Contact kyle.bosch@ndsu.edu to submit items for *College Happenings.*

Follow the College of Engineering on social media.