

COLLEGE HAPPENINGS

June 11, 2019

FROM THE DEAN

Importance of Philanthropy

This week I'm in Minneapolis with Andy Dahl, Director of Development for the College of Engineering, where we're meeting with alumni of the college with the goal of cultivating relationships that will lead to philanthropic support for our students and faculty. We also will be attending the Minnesota Twins baseball game tonight with hundreds of NDSU alumni for "North Dakota State University Night at Target Field." Meeting with successful alumni on these fund raising trips is one of the aspects of my job that I particularly enjoy. It is so interesting to hear how our graduates took what they learned as students in the College of Engineering and used their education to propel them to successful careers. Typically, our conversations shift to talking with them about their philanthropic goals and how NDSU can be a part of those goals.

During our strategic planning this past year, we identified six "Strategic Pillars", areas of focus that drive program excellence, each starting with the letter P.

1. Partnerships—Build enduring relationships with internal and external stakeholders who are active participants (both beneficiaries and benefactors) with us in our mission.
2. Prioritizing Students—Recruit and retain motivated, hardworking students and provide a world-class experience by continuously improving programs and student learning.
3. Preeminent Research—Grow impressive, high-quality scholarship that creates value for industry and society.
4. People Driven—Invest in our people and build teams to drive transformative research, teaching and student experience.
5. Preparing Leaders—Teach students to be creative problem solvers who have the skills to motivate and inspire.
6. Philanthropy—Attract and effectively use resources with transparency and accountability to advance the public good.

In an environment where resources are increasingly limited, that last pillar, Philanthropy, is becoming more important as a means to move our college to greater heights and to provide resources to help strengthen the other pillars.

This past year, we were able to support two new named faculty fellows, the [Welch Faculty Fellowship](#) and the [Spencer G. and Carol A. Duin Endowed Fellowship](#). On November 14, we'll be celebrating the appointment of a third faculty fellowship. These named faculty fellowships and chairs provide important resources to retain, attract, and support our faculty, but we have far too few of them and are working to secure funding for more. In addition, growing the number of four-year renewable scholarships, will continue to be important to recruit the best and brightest students and maintain or strategically grow our enrollments.

It's for these reasons that increasing philanthropy through engagement with donors, alumni, and other stakeholders will be a key strategic initiative for the college in the years ahead.



IN THE NEWS

[NDSU researchers study North Dakota's unique water resources](#)

[Students accelerate electric vehicle technology](#)

[Apparel student invents new eco-friendly textile](#)

CONGRATULATIONS

Please let [College Happenings](#) know about honors, awards, new grants and other announcements so we can share them with other faculty and staff.

1ST ANNUAL COE STAFF LUNCHEON

We're excited to invite the CoE staff to the **First Annual CoE Staff Luncheon** on Tuesday, August 13 from 11:30 a.m. – 1:30 p.m. The event will include an update on the State of the College from Dean Kessler and an opportunity for you to ask questions.

Watch your email for the invitation. We hope to see you there!

2019 ORIENTATION DATES

NDSU faculty and staff play a critical role in welcoming new first-year and transfer students to campus on their orientation dates, even if you don't have a direct role in the orientation program. Statements like "The friendliness of everyone working on campus made me feel so welcome" are among the most frequent open-ended comments provided and we want to keep that going!

Here are the dates of orientation sessions throughout the summer, and thank you in advance for helping welcome new students to the campus and College of Engineering.

First-Year Scholars Students

Invited students include those receiving select scholarships such as National Merit and Presidential, those who have committed to participate in the Honors Program, and those who earned substantial college-level credits and sent their transcript by the given deadline.

- **June 13, 14**

First-Year Students

- **June 20, 21, 24-28**
- **July 9-12**
- **August 1, 2**

Transfer Students

- **June 14**
- **July 11**
- **August 2**

PROMOTION, TENURE AND EVALUATION MATERIALS

The 2019-20 Promotion, Tenure, and Evaluation (PTE) Materials are now available to access from the [Promotion and Tenure website](#). This website contains the NDSU PTE Timeline, Guidelines for Promotion and Tenure Portfolio Preparation, Probationary Period Extension Form, Policy and Procedure Checklist, the Portfolio Cover Sheet, and information on University-Wide PTE Advisory Committee.

Portfolios are due to the Office of the Provost no later than December 19, 2019. If you have any questions regarding PTE, please contact [Canan Bilen-Green](#).

FUNDING OPPORTUNITIES

NDSU Impact Fund

The NDSU Foundation and Alumni Association Grants Committee is now accepting applications for the Impact Fund Grant Program for the 2019 academic year. The application deadline is **Monday, August 5, by 5 p.m.**

[The NDSU Impact Fund Grant Program](#) provides funding for projects that have a direct and positive impact on the lives of students. Annual contributions from alumni and friends of the University support this fund. Applications are accepted from faculty, staff and recognized student groups. The Impact Grant Fund Program offers grants of \$20,000 to \$75,000.

Find the application form and additional information for The NDSU Impact Grant Program at the NDSU Foundation website: <https://www.ndsufoundation.com/impact-fund>.

For any further questions, please email Jennifer Reinhold, Grants Committee Liaison, at jennifero@ndsualumni.com.

RECENTLY FUNDED GRANTS

- Benjamin Delbert Brooks (PI). Developing a Trivalent, mRNA Subunit Vaccine with Sterilizing Immunity for Herpes Simplex Virus 2. \$95,700 from the National Institutes of Health. 07/01/2018 – 06/30/2023.

RECENTLY SUBMITTED PROPOSALS

- Beena D Ajmera (PI), Mijia Yang (CPI). Reducing Foundation Costs of Tall Buildings through Innovative Geotechnical Parameter Assessment. \$19,770 from the **Council on Tall Buildings & Urban Habitat**. 11/01/2019 – 04/30/2020.
- Majura Fortunatus Selekwa (PI), Jacob Glower (CPI), Xinnan Wang (CPI). Planning Grant: Engineering Research Center for Intelligent Robotic Systems (CIROS). \$99,998 from the National Science Foundation. 08/01/2019 – 07/31/2020.
- Chad A Ulven (PI). ZILA Works Technology Demonstrator. \$2,000 from Zila Works. 04/15/2019 – 12/31/2019.
- Xiangfa Wu (PI). DOE EERE:300+*C PEM Electrolyzer. \$199,989 from the Department of Energy. 10/01/2019 – 03/31/2022.
- Robert Allan Sailer (PI). Design, development and transition of manufacturing of Innovative cooling devices using CO2 as coolant. \$166,238 from Frostime LLC. 07/01/2019 – 06/30/2021.
- Robert Allan Sailer (PI). RND FAST TRACK: Ruggedization of production equipment and alternative ingredient identification for Dakota Sweet Crude. \$20,347 from the ND Department of Commerce. 07/01/2019 – 06/30/2020.

- Robert Allan Sailer (PI). RND FAST TRACK: Ruggedization of production equipment and alternative ingredient identification for Dakota Sweet Crude. \$20,349 from Doodlebug Beverages. 07/01/2019 – 06/30/2020.
- Robert Allan Sailer (PI). Ruggedization of production equipment and alternative ingredient identification for Dakota Sweet Crude. \$12,789 from Doodlebug Beverages. 07/01/2019 – 06/30/2020.
- Robert Allan Sailer (PI). RND FAST TRACK: Commercialization and Development Support for Frostime products: Blizbox and FrostMed. \$25,000 from Frostime LLC. 07/01/2019 – 06/30/2020.
- Robert Allan Sailer (PI). RND FAST TRACK: Commercialization and Development Support For Frostime Products: Blizbox and FrostMed. \$25,000 from the ND Department of Commerce. 07/01/2019 – 06/30/2020.

RECENT PUBLICATIONS

For 2019, 56 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:

- Kanwal, Tehsin, Sayed Ali Asjad Shaukat, Adeel Anjum, Saif Ur Rehman Malik, Kim-Kwang Raymond Choo, Abid Khan, Naveed Ahmad, Mansoor Ahmad, and Samee U. Khan. 2019. "Privacy-Preserving Model and Generalization Correlation Attacks for 1:M Data with Multiple Sensitive Attributes." *Information Sciences* 488 (July): 238–56. <https://doi.org/10.1016/j.ins.2019.03.004>.
- Ritt, Cody L., Bret J. Chisholm, and Achintya N. Bezbaruah. 2019. "Assessment of Molecularly Imprinted Polymers as Phosphate Sorbents." *Chemosphere* 226 (July): 395–404. <https://doi.org/10.1016/j.chemosphere.2019.03.087>.
- Sidhu, Harjot, Dennis Wiesenborn, Burton Johnson, Ewumbua Monono, and Eric Eriksmoen. 2019. "Coating of Hulled Seeds Improved Field Plantability and Grain Yield of Extra-Large Confectionary Sunflower Achenes." *Crop Science* 59 (3): 1182–90. <https://doi.org/10.2135/cropsci2018.06.0400>.
- Xia, Wenjie, Nitin K. Hansoge, Wen-Sheng Xu, Frederick R. Phelan, Sinan Keten, and Jack F. Douglas. 2019. "Energy Renormalization for Coarse-Graining Polymers Having Different Segmental Structures." *Science Advances* 5 (4): eaav4683. <https://doi.org/10.1126/sciadv.aav4683>.
- Yuan, Hui, Huanhai Xin, Linbin Huang, Zhen Wang, and Di Wu. 2019. "Stability Analysis and Enhancement of Type-4 Wind Turbines Connected to Very Weak Grids Under Severe Voltage Sags." *IEEE Transactions on Energy Conversion* 34 (2): 838–48. <https://doi.org/10.1109/TEC.2018.2882992>.

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.



