

COLLEGE HAPPENINGS

May 28, 2019

FROM THE DEAN

CoE Honor System

Several years ago the College of Engineering and Architecture (CEA) had an Engineering Council comprised of student representatives from our engineering clubs and organizations. In 2009, the Engineering Council implemented the CEA's Honor System, and established a committee called the Honor Commission with one undergraduate from each academic unit. All students have been responsible for knowing and complying with the college's Honor System. And, since 2011, students have signed an Honor Pledge during new student orientation, which is kept in their advising file, signifying that they acknowledge the existence of the Honor System.

The purpose of the college's Honor System was to curtail academic dishonesty through the use of student self-supervision and to penalize those who are dishonest through the use of peer evaluation and penalty. While infractions identified by instructors are covered in current NDSU Policy 335, infractions identified by a fellow student were to be addressed through the Honor Commission. In those cases, the Honor Commission, as peers of the accused, would be assigned the task of interviewing those involved, evaluating all findings and recommending the penalty for the infraction if the student was found guilty of the alleged incident of academic misconduct.

When the Honor System was established, it was to be reviewed annually by the Engineering Council with a formal vote for continuance. Since it was established in 2009, there has been only one hearing of the Honor Commission (a case which took place in 2011). In all other cases of academic misconduct in the college, the infraction was identified by (or reported to) class instructors and covered under current NDSU Policy 335. If the Honor System were not in place in 2011, that one case would have been handled through NDSU Policy 335 too. In addition, both the Honor Commission and the Engineering Council do not currently exist. The last Honor Commission roster was dated September 2013 and the Engineering Council last met in October 2014. As such, the Honor System has not had its required annual formal vote for continuance for a least five years.

In light of the fact that the Honor System has not been used since 2011 and the governing body required to approve its use has not existed since 2014, the college leadership is considering eliminating reference to the Honor System and forgoing the documentation of the Honor Pledge during orientation. By doing this, we would not be changing the expectation about academic honesty in any way. We would only be eliminating a reference to the Honor System which was the primary purpose of the Honor Pledge. I would be very interested in hearing your thoughts on this potential policy change and welcome your feedback.



IN THE NEWS

[Scholarship endowment established in honor of longtime professor](#)

[Bison Robotics mining team excels at NASA completion](#)

CONGRATULATIONS

After a year of hard work, led by **Yao Yu** from the **Department of Construction Management and Engineering**, NDSU is now a member of the LEED Lab community. The LEED Lab program, sponsored by the U.S. Green Building Council, is a multidisciplinary immersion course that utilizes project based learning and the built environment to educate and prepare students to become green building leaders and sustainability-focused citizens.

The new course, CM&E 431 Sustainable Design and Construction, is being offered in fall semester.

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

NDSU JOINS CB²

NDSU has been awarded a National Science Foundation grant to become a university site of the Center for Bioplastics and Biocomposites (CB²). This center is part of NSF's Industry–University Cooperative Research Centers (I/UCRC) program. NDSU will receive \$150,000 to set up the site.

NDSU joins current CB² sites at Iowa State University, Washington State University, and the University of Georgia. NDSU was selected based upon the institution's long history of sustainable materials research and the strength of industry partnerships.

CB² founder and overall director of the program is David Grewell, chair of the Department of Industrial and Manufacturing Engineering. Dean Webster, professor and chair of Coatings and Polymeric Materials will serve as the Fargo site director.

NEW HIRES

Abdul-aziz Banawi has been hired as a new Assistant Professor in the **Department Construction Management and Engineering**.

Banawi comes to NDSU from King Abdulaziz University in Saudi Arabia where he was the Head of the Department of Architectural Engineering. He is also a Faculty Member of the U.S. Green Building Council.

Banawi earned his B.S. in Architecture from King Abdulaziz University, Master's degrees in Civil Engineering and in Systems Engineering from the Florida Institute of Technology, and his Ph. D. in Civil Engineering from the University of Pittsburgh.

He is scheduled to start at NDSU in August.

2019 NDSU FACULTY CONFERENCE

Please reserve Friday August 23, 2019 for the annual NDSU Faculty Conference. Program details will be announced later.

If you (or your group) are interested in presenting at this year's Conference or would like to suggest topics, please contact [Canan Bilen-Green](#) by May 24.

FREE SUMMER PROFESSIONAL DEVELOPMENT OPPORTUNITIES

The NDSU Technology Learning & Media Center offers free computer classes for students, staff and faculty. Summer workshops include PowerPoint, Excel and Adobe Photoshop. Students and staff can also take Microsoft Office Specialist Certification Exams on campus.

Check out the full summer schedule and register for classes on the [TLMC website](#).

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**

UPCOMING EVENTS

Mental Health First Aid Training at NDSU

Part 1: Tuesday, June 18, 8:00 AM – Noon

Part 2: Thursday, June 20, 8:00 AM – Noon

Where: NDSU Memorial Union (snacks and beverages provided)

Register: For more information or to register for the training, call the NDSU Counseling Center at 701-231-7671. Training is free and open to the first 30 registrants.

Safe Zone Trainings

Safe Zone offers three levels of training: 1) Sexuality and Allyship; 2) Gender: Identity/Expression 3) Upstander Training. If you would like to attend the training they will be held at the below dates and times. Please follow the link below to register.

Level 1 – June 4th from 10-11:30 am in the Room of Nations of the Memorial Union
Level 2 – June 11th from 10-11:30 am in the Room of Nations of the Memorial Union
Level 3 – June 18th from 10-11:30 am in the Prairie Room of the Memorial Union

Link to Register: https://www.ndsu.edu/equity/education_and_training/

FUNDING OPPORTUNITIES

NSF: Computer Research Initiation Initiative (CRII)

This solicitation [NSF 19-579] encourages potentially transformative proposals in any area of Computer and Information Science and Engineering (CISE) research from PIs who are in their first academic position post-PhD. The goal is for the PI to have the necessary resources to launch their research career so that they may establish an independent research profile. The resources should be those that the PI otherwise does not have, including through organizational or other funding. The CRII program is part of CISE's strategy to increase its investments in the development and growth of the research capabilities of future generations of computer and information scientists and engineers, including computational and data scientists and engineers. This solicitation provides the opportunity for early-career researchers who do not have adequate organizational or other means of support to pursue their early-career research, including to recruit and mentor their first graduate students (or undergraduate students, in the case of faculty at undergraduate and two-year institutions), which is one critical step in a career pathway that is expected to lead to research independence and a subsequent stream of projects, discoveries, students and publications. CRII awards will be given to researchers to undertake exploratory investigations, to acquire and test preliminary data, develop collaborations within or across research disciplines, and/or develop new algorithms, approaches, and system designs/prototypes, which together or separately may lead to improved capacity to write successful proposals submitted to other programs in the future.

Application deadline: August 14, 2019

RECENTLY SUBMITTED PROPOSALS

- Chad A Ulven (PI). Roof Review - Bio-Based Solutions for Shingles - Student Project. \$5,000 from VentureWell. 01/07/2019 – 12/30/2019.
- Roger A Green (CPI). Collaborative Research: Joining forces: A midwestern partnership for research-intensive institutions for women STEM faculty success. \$232,039 from the National Science Foundation. 01/01/2020 – 01/01/2023.
- Yan Zhang (PI). Superhydrophobic Flow Diverters for Improved Endovascular Treatment of Cerebral Aneurysms. \$45,000 from the Brain Aneurysm Foundation. 11/01/2019 – 10/30/2020.
- Ghodrat Karami (PI), Mariusz Ziejewski (CPI). How the Brain Tissue Fluids Impact its Biomechanical Characteristics and Failure. \$444,686 from the National Science Foundation. 11/01/2019 – 10/31/2022.
- Trung Bao Le (PI). A Simple Index To Identify Suitability of Pipeline Embolization Device Treatment For Patients with Brain Aneurysms. \$45,000 from the Brain Aneurysm Foundation. 09/15/2019 – 09/15/2020.
- Matthew J Noah (PI). Sensors, Communications and Control for an Integrated Bathroom. \$21,525 (multisponsor). 09/01/2019 – 08/31/2020.
- Matthew J Noah (PI). Sensors, Communications and Control for an Integrated Bathroom. \$300,000 from the ND Department of Commerce. 09/01/2019 – 08/31/2020.
- Nita Yodo (PI). Increase participation of women and minorities towards future STEM workforce through technology and engineering. \$95,000 from the National Institute of Food and Agriculture. 10/01/2019 – 09/30/2021.

- Halis Simsek (PI), Xinhua Jia (CPI), Xuefeng Chu (CPI). A Field-Lysimeter Application to Investigate the Effect of Different Groundwater Depths and Water Table Salinity on Soybean Growth, Yield, and Quality Parameters. \$92,429 from the North Central Soybean Research Program. 10/01/2019 – 09/30/2021.
- Robert Allan Sailer (PI). Commercialization and development support for Frostime products: Bilzbox and FrostMed. \$151,516 from Frostime LLC. 07/01/2019 – 06/30/2020.
- Robert Allan Sailer (PI). Commercialization and development support for Frostime products: Bilzbox and FrostMed. \$300,000 from Frostime LLC. 07/01/2019 – 06/30/2020.

RECENT PUBLICATIONS

For 2019, 51 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:

- Edstrom, Jonathon, Yifu Gong, Ali Ahmad Haidous, Brittney Humphrey, Mark E. Mccourt, Yiwen Xu, Jinhui Wang, and Na Gong. 2019. "Content-Adaptive Memory for Viewer-Aware Energy-Quality Scalable Mobile Video Systems." *IEEE Access* 7: 47479–93. <https://doi.org/10.1109/ACCESS.2019.2908997>.
- Galedari, Sahar A., Amirhossein Mahdavi, Fardad Azarmi, Ying Huang, and Andre McDonald. 2019. "A Comprehensive Review of Corrosion Resistance of Thermally-Sprayed and Thermally-Diffused Protective Coatings on Steel Structures." *Journal of Thermal Spray Technology* 28 (4): 645–77. <https://doi.org/10.1007/s11666-019-00855-3>.
- Naik, Dayakar L., Achintyamugdha Sharma, Rajender Reddy Chada, Ravi Kiran, and Todd Sirotiak. 2019. "Modified Pullout Test for Indirect Characterization of Natural Fiber and Cementitious Matrix Interface Properties." *Construction and Building Materials* 208 (May): 381–93. <https://doi.org/10.1016/j.conbuildmat.2019.03.021>.
- Sharma, Anurag, Malcolm L. Snead, Kalpana S. Katti, and Dinesh R. Katti. 2019. "Mechanics of Amelogenin TRAP Protein in the Proximity of Hydroxyapatite Mineral Is Altered by Interfacial Water." *Chemical Physics* 522 (June): 104–11. <https://doi.org/10.1016/j.chemphys.2019.02.017>.
- Shojaeiarani, Jamileh, Dilpreet S. Bajwa, and Sreekala G. Bajwa. 2019. "Properties of Densified Solid Biofuels in Relation to Chemical Composition, Moisture Content, and Bulk Density of the Biomass." *Bioresources* 14 (2): 4996–5015.
- Shojaeiarani, Jamileh, Dilpreet Bajwa, and Alimohammad Shirzadifar. 2019. "A Review on Cellulose Nanocrystals as Promising Biocompounds for the Synthesis of Nanocomposite Hydrogels." *Carbohydrate Polymers* 216 (July): 247–59. <https://doi.org/10.1016/j.carbpol.2019.04.033>.
- Wu, Di, Al Motasem Aldaoudeyeh, Milad Javadi, Feng Ma, Jin Tan, and John N. Jiang. 2019. "A Method to Identify Weak Points of Interconnection of Renewable Energy Resources." *International Journal of Electrical Power & Energy Systems* 110 (September): 72–82. <https://doi.org/10.1016/j.ijepes.2019.03.003>.
- Yu, Yao, Ahmed Cherif Megri, and Shuang Jiang. 2019. "A Review of the Development of Airflow Models Used in Building Load Calculation and Energy Simulation." *Building Simulation* 12 (3): 347–63. <https://doi.org/10.1007/s12273-018-0494-0>.

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.



