

COLLEGE HAPPENINGS

January 8, 2019

FROM THE DEAN

New Year Resolutions

Welcome back to work, everyone. I hope you all had a great time over the holidays. Here we are in 2019, and with the new year, many of us have made personal resolutions intended to improve ourselves. I have made a few of my own, including the ever-popular "do more exercise" and "eat healthier." Maybe I'll start next week.

The strategic plan that we have been developing for the College of Engineering contains four strategic initiatives and related benchmarks and these goals can be considered as New Year's resolutions for the college as a whole. These wildly important resolutions, which we believe will drive the greatest value and impact, are ones that we intend to keep. Unlike mine, they are resolutions we are already working towards achieving. The four initiatives in our strategic plan include:

1. *Build Leadership and Innovation Skills of Students*
2. *Integrate Industry, Research and Education*
3. *Cultivate a Culture of Excellence*
4. *Increase Philanthropy Through Engagement with Donors, Alumni and Other Stakeholders*

Action plans are being developed for each initiative by smaller action teams with clear timelines and accountability. Scott Prior is leading the action team for *Build Leadership and Innovation Skills of Students*; Ben Braaten is leading the action team for *Integrate Industry, Research and Education*; David Grewell is leading the action team for *Cultivate a Culture of Excellence*; and Mark Versen is leading the action team for *Increase Philanthropy Through Engagement with Donors, Alumni and Other Stakeholders*. From these action plans we will also develop the measurements that will tell us if we are winning with the strategy and its execution.



IN THE NEWS

[Menard reflects on his NDSU experience](#)

CONGRATULATIONS

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, January 10, **NDSU Day of Honor memorial service**. 3:00 p.m. Memorial Union Plains Room. Staff Senate hosts the Day of Honor annually as a way to commemorate the students, staff, and faculty members who passed away during the year prior.

Wednesday, February 6, **Spring Career Expo**. 10:00 a.m. to 2:00 p.m. at the Fargodome. [More Information](#).

DISTINGUISHED LECTURE SERIES NOMINATIONS

The College of Engineering Graduate and Research Committee is inviting nominations for the **CoE Distinguished Lecture Series for Fall 2019**.

Submissions for Fall nominations are due to department chairs by **March 31st, 2019**.

The invitation procedure, selection criteria and nomination form can be found [here](#).

AVENUES OF SCIENTIFIC DISCOVERY

The Office of Teaching and Learning seeks graduate students (individuals or groups) to offer short workshops with fun and interactive components for Avenues of Scientific Discovery, a one-day event held February 14, 2019.

Avenues of Scientific Discovery is an annual event that showcases the fun and interesting aspects of a career in science.

Workshop proposals are due January 15, 2019.

[Propose a workshop >>](#)

[Learn more about the event >>](#)

FUNDING OPPORTUNITIES

NSF: Cyberinfrastructure for Emerging Science and Engineering Research

The Cyberinfrastructure for Emerging Science and Engineering Research ([CESER / PD 19-7684](#)) program aims to catalyze new science and engineering discovery pathways through early-stage collaborative activities between disciplinary scientists and engineers as well as developers / implementers of innovative cyberinfrastructure (CI) capabilities, services, and approaches.

A central feature of successful CESER projects is a **strong, mutually-dependent collaborative team** comprising expertise in the target science/engineering discipline(s) as well as expertise in CI development and implementation. CESER supports **early-stage exploratory efforts** that may comprise analysis, community planning, and pilot-level activities that are preparatory or informative for eventual future development and deployment of science/engineering-driven CI.

CESER accepts proposals pursuant to this Program Description year-round

ND NASA EPSCoR:

The North Dakota NASA Established Program to Stimulate Competitive Research (EPSCoR) is soliciting pre-proposals from North Dakota faculty in STEM fields to fulfill the following solicitation. Eligible proposers include faculty members at a [ND NASA EPSCoR affiliate institution](#).

The NASA EPSCoR (Established Program to Simulate Competitive Research) FY18 Cooperative Agreement Notice (CAN) R3 Solicitation limits each jurisdiction to the submission of one proposal per each of the technical areas specified. This down-select process is to identify which proposal(s) will go forward for North Dakota.

- More details on the down-select process can be found [here](#).
- The R3 Solicitation and amendments can be found [here](#).
- A pdf of the North Dakota NASA EPSCoR Pre-proposal Down-select with guidelines for proposers can be found [here](#).

Email pre-proposal as a PDF attachment by Noon on **February 1, 2019** to: casler@space.edu and cnolby@space.edu

RECENTLY SUBMITTED PROPOSALS

- Xuefeng Chu (PI). North Dakota Water Resources Research Institute Graduate Fellowship Program Support from ND State Water Commission. \$25,000 from the ND Water Commission. 03/01/2019 – 02/29/2020.
- Trung Quoc Le (PI). EEG-driven Nonlinear System Dynamics Approach for Progression Monitoring and Forecasting of Mild Traumatic Brain Injury. \$1,000 from Sanford Health. 01/01/2019 – 08/31/2019.

RECENT PUBLICATIONS

For 2019, 2 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:

- Sunoj, S., C. Igathinathane, N. Saliendra, J. Hendrickson, and D. Archer. 2018. “Color Calibration of Digital Images for Agriculture and Other Applications.” *ISPRS Journal of Photogrammetry and Remote Sensing* 146 (December): 221–34. <https://doi.org/10.1016/j.isprsjprs.2018.09.015>.
- Zhang, Harry X., and G. Padmanabhan. 2019. “Critical Condition Modeling and Analysis in TMDL Development and Implementation.” *Journal of Hydrologic Engineering* 24 (2): 04018061. [https://doi.org/10.1061/\(ASCE\)HE.1943-5584.0001729](https://doi.org/10.1061/(ASCE)HE.1943-5584.0001729).

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*.

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