

College of Engineering
North Dakota State University
Faculty Council Meeting
Tuesday, September 14, 2021, 12:30 – 1:30 PM, FLC 122
Meeting Minutes

Attending:

CoE: Michael Kessler, Scott Pryor, Steve Jeffery

ABEN: Igathinathane Cannayen, Zhulu Lin, Xinhua Jia, Ewumbua Monono

CCEE: Achintya Bezbaruah, Xuefeng Chu, Trung Bao Le, Kelly Rusch, Ravi Yellavajjala, Youjin Jang, Zhili Jerry Gao, Eric Asa, Yao Yu

CS: Anne Denton, Simone Ludwig, Zubair Malik, Zahid Anwar, David Froslic

ECE: Benjamin Braaten, Ivan Lima, Di Wu, Qifeng Zhang, Shuvashis Dey, Roger Green

IME: Kambiz Farahmand

ME: Alan Kallmeyer, Ali Amiri, Fardad Azarmi, Adam Gladen, Long Jiang, Ghodrat Karami, Yildirim Bora Suzen, Chad Ulven, Yechun Wang, Xiangfa Wu, Yan Zhang, Jessica Vold,

1. Call to Order

The meeting was called to order at 12:32pm

2. Approval of Minutes from Last Meeting

Motion to approve the March minutes (Farahmand / Karami). Motion passed

3. Announcements

a. COVID Updates and policies (Mr. Bohr)

Mr. Bohr discussed about the COVID-19 situation with the delta variant. NDSU continues the effort to monitor COVID via wastewater. Vaccine effectiveness is compared between the pre-delta and delta situations. Data on vaccination effectiveness throughout different regions of the United States was presented. Age comparison for COVID cases, hospitalizations, and deaths in vaccinated and unvaccinated in North Dakota to 8/31/2021 were discussed. Discussion on vaccine mandate at NDSU.

b. College updates (Dean Kessler)

Dean Kessler updates on the degrees awarded in COE by the year 2011-2021. Fall enrollment for NDSU goes down to 12,479. The COE Fall 2021 enrollment goes up to 539 undergraduate students. The number of PhD students continues to go up to 196.

c. Chairs welcome new faculties

ABEN: Ademola Ajayi-Banji and Niloy Sarker as research specialists

CCEE: Chau Le as an assistant professor, Maureen Kent as office and finance manager, and Ruth Wirtz as administrative secretary

CS: Zahid Anwar as an associate professor, Dave Froslic as a lecturer and the senior capstone course, Melissa Bethard as an administrative assistant

ECE: Omid Beik and Suvashis Dey as assistant professors, Benaoumeur Senouci assistant professor of practice

d. New grants/awards announcements

FY2021 Awards received: \$11.1M.

Fardad Azarmi was awarded \$599,683 from the Department of Defense to study “Additively Manufactured High Temperature Friction Stir Tooling through Thermal Spray Techniques.”

David Grewell, Chad Ulven and Alan Kallmeyer received \$755,000 from the National Science Foundation for Phase II funding of the Center for Bioplastics and Biocomposites.

Xiangfa Wu, Qifeng Zhang and Adam Gladen were awarded \$842,797 from the Department of Defense to study advanced membrane electrode assemblies for fuel cells.

Qifeng Zhang and Adam Gladen were awarded \$1.2 M from the Department of Defense to work on advanced materials for lithium ion batteries.

Adam Gladen and Yao Yu received a \$1.74 M award from the Department of Energy to develop a thermochemical, nanocellulose-based material for thermal energy storage.

Umamaheswara Rao Tida was awarded \$174,984 from the National Science Foundation for the project “Enabling Metal Inter-Layer Via Device Utilization for On-chip Memory in Monolithic Three-Dimensional Integrated Circuits.”

Sudarshan Kumar Srinivasan was awarded \$352,167 from the National Science Foundation to study formal verification techniques for microprocessor security vulnerabilities and trojans.

Shafiqur Rahman was part of the team awarded \$514,253 from NSF for an REU site on Big Data Analytics and Machine Learning.

Xinhua Jia received \$122,808 in funding from the ND Department of Agriculture to study remote-controlled irrigation for high tunnel tomato and pepper productions.

Xuefeng Chu is a CPI on project awarded \$322,828 by the EPA to study the reduction of sediment and nutrient loadings in impaired watersheds.

e. Leadership Initiative (Dr. Pryor)

A new program (non-required co-curricular program) is introduced to undergraduate student to help with leadership development of students. For the details, please see the College Updates.

4. Committee Announcement/Reports

- a. College Executive Committee: N/A
- b. University Senate Executive Committee: Please contact your senators to convey your ideas/comments to the University Senate. Committee still looks for new member. Please volunteer.
- c. College PT&E Committee: N/A
- d. College Academic Affairs Committee: N/A
- e. College Research and Graduate Committee: N/A
- f. Other University Committees: N/A

5. Old Business

none

6. New Business

none

7. Adjournment

The meeting is adjourned at 1:22 PM