

# Jodsaas Center

## for Engineering Leadership & Entrepreneurship

December 2018

### Quarterly Newsletter

Fourth Issue

## Jodsaas Center offers New Programs in 2019

During 2018, the Jodsaas Center offered several programs and activities to develop the leadership and entrepreneurship skills of the students. The industry seminar series and workshop series were designed to present a range of skills by experienced people. The ENGR 410 course was offered in Spring 2018 and it engaged over 30 students who were involved in business planning related projects. Following the great success of this course, it will be offered in Spring 2019. The ENGR 490 course offered students with the opportunity to build lab experimental set up with the financial support from industry and PE department. The Big Challenge and GCSP are other activities that involve students in critical thinking and team work activities which are part of the objectives of the Center.

In 2019, the board members are keen to expand the activities of the Center beyond the College and encourage the business school and the Center for Innovation to participate and support new initiatives that enhances student's leadership skills. Launching the "Innovation Studio", program offered by the Center for Innovation at the Jodsaas Center facility is one of the planned programs in 2019. This is a program that will have students use human design thinking and innovation processes to provide solutions for problems that local businesses are facing. Initiating new programs which involve students from different colleges across the campus is another objective of the 2019 activities of the Center while we continuously improve the quality of currently offered activities.

We wish you all a very Happy Holiday season and a prosperous New Year!

#### Jodsaas Center Board Members

## The Big Challenge (BIG Idea Gym)

November Big Challenge was to present an innovative, fun, and technology-driven approach to improve the educational experience for students in the College of Engineering and Mines. The competition took place on November 29th . Nine teams participated in the competition and five including two DEDP teams were selected as finalists. "Elevator Pitch Hour" idea proposed by Margaret Ahmann and the "Multi-level Collaboration" idea presented by Alexis Archambault, Tyson Jeannotte, Tanya McGrady and Makayla Platt were chosen by the judges and audience as the winning ideas. The winning teams received a \$1000 scholarship each.



"Multi-level Collaboration" project team



"Innovative Pedagogy" project team



Members of the two winning teams

#### Board Members

- Vamegh Rasouli  
(Petroleum Eng)
- Brian Tande  
(CEM's Associate Dean)
- Bruce Dockter  
(Civil Eng)
- Surojit Gupta  
(Mechanical Eng)
- Joseph Hartman  
(Geology and Geological Eng)
- Emanuel Grant  
(Computer Science)
- Kouhyar Tavakolian  
(Electrical Eng)
- Bethany Klemetsrud  
(Chemical Eng)
- Dustin McNally  
(Mechanical Eng)

#### Jodsaas Center offers:

- Industry short courses
- Business related courses counted towards your credit
- The support for hands-on projects run by students from different engineering disciplines
- The support for establishing new companies

# ENGR 490

The Slurry Loop Project is now complete and the equipment is operational. Industry visitors from several oil and gas companies visited the labs and were impressed with the new capabilities that this new set up offers to study one of the ongoing problems in the industry.

The drillbotics team is finalizing their design to be submitted to the SPE by end of December, 2018. This year the competition is to build an automated drilling rig which can drill directional wells. The team, composed of 14 students from different departments, are working hard to complete the design phase before the deadline.

## Workshops Series

The following workshop series were held during the last quarter of 2018:

- Sept 2018:** Business plan

Presented by Sheila Hanson, an Assistant Professor of Entrepreneurship in the College of Business and Public Administration at UND. The courses she teaches include: Introduction to Entrepreneurship, Managing for Sustainability, Social Entrepreneurship, and Small and Family Business. She conducts research in the areas of applied psychology, family business, and business ethics. Previously, she worked at the Energy & Environmental Research Center.

- Oct 2018:** Engineering isn't easy.... managing engineers isn't any easier

Duane Helleloid is a Professor and Chair of the Management Department at UND. The skills that make someone a great engineer are not necessarily the same as those that will enable them to be a great leader and manager. Managing engineers isn't necessarily difficult, but it requires the development of skills that are not typically taught in an engineering program.

- Nov 2018:** Sales pitch and negotiation.

•Presented by a panel composed of Jennifer L. Stoner (an Assistant Prof. in the Marketing Department), Nikhil Patel (leading force engineering development of gasification technologies at the EERC), and Amy A. Whitney (Director for the UND Center for Innovation). The art of the pitch is grounded in the power of storytelling and engaging a person's emotions and intellect to understand the value of your idea. Successful selling involves persuasive arguments that demonstrate impact, solve a problem and create a sense of urgency and connection.

- Dec 2018:** How to network in conferences. Presented by a panel composed of Yun Ji (an Associate Prof. at UND Chemical Eng department), Kegang Ling (Associate Prof., UND Petroleum Eng department), Clement Tang (Associate Prof., UND Mechanical Eng department), and Kouhyar Tavakolian (Assistant Prof., UND Electrical Eng department). The panel discussed different approaches to make effective networking when attending conferences.



Slurry Loop Set up



Nov and Dec workshop series included panel discussions

## Upcoming Events

- Jan 2019:** Workload & schedule planning

- Feb 2019:** Dealing with difficult people

- March 2019:** Mock job interview

- April 2019:** Finance management

### Contact (**WE ARE HERE TO HELP!**)

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