

Jodsaas Center

for Engineering Leadership & Entrepreneurship

December 2019

Quarterly Newsletter

Issue IV

<https://engineering.und.edu/outreach/jodsaas-center/>

2019-2020 Workshop Series

This academic year, based on the students' feedback from last year, the Jodsaas Center will be offering the following workshop series to enhance their leadership and management skills:

- **Sept 2019:** Business Model Canvas
- **Oct 2019:** Time Management
- **Nov 2019:** Financial Management
- **Dec 2019:** Learning from Failures
- **Jan 2020:** Mock job interview
- **Feb 2020:** Managing difficult conversation
- **March 2020:** Understanding your Strengths
- **April 2020:** Understanding Negotiation



Sept-Dec Workshops Series

Following workshops presented during the last 4 months of this year:

Business Model Canvas: presented by Tyler Sletten, SBIR Director and an entrepreneurial consultant for the UND Center for Innovation and Greg Syrup, Entrepreneur Coach at the UND Center for Innovation.

Time to Do What YOU Want: On-Purpose Time Management – College to Career: presented by Chris J. Zygarlicke, Director of Employee Development & Engagement, Energy & Environmental Research Center.

Financial Management: Kristofor Paulson, is an instructor of Economics/Finance at UND. He has two Master degrees, Master in Applied Econ and Master in Business. His Bachelor degree is in Finance. He has also been investing for more than 15 years in stocks, bonds, and mutual funds. He trades through Robinhood, a non-transaction fee investing website and app.

Also, in October, Dr. Amy Whitney presented a workshop on **Design Thinking**. Amy is the Director of the UND Center for Innovation. She brings 20+ years of entrepreneurial, innovative, collaborative and creative thinking skills to her work. Design thinking is a creative problem solving framework used by organizations around the world to identify new solutions to challenging problems in business, society and life. This interactive workshop is a fast-paced introduction to the design thinking problem solving model and is intended to introduce participants to the framework.

Board Members

- Vamegh Rasouli (Petroleum Eng)
- 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)
- Duane Helleloid (School of Entrepreneurship and Management)
- Sandy Braathen (School of Entrepreneurship and Management)
- Amy Whitney (UND Center for Innovation)



Jodsaas Center offers:

- Entrepreneur Coach office hours
- 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

The Big Challenge (Big Ideas Gym)

Thanks to Dr. Surojit Gupta for accepting to coordinate the Big Challenge competition. Together with Amy Whitney, they proposed a new approach for this competition which will run every 3 months in the future. The first competition is expected to be in early Spring 2020. The idea is to propose an engineering solution to a global plastic problem based on fossil fuels for Circular Economy. The proposed solution can be based on the following ideas: (a) how we can develop new technologies to eliminate single user plastic usage, (b) how novel plastics can be designed which can be recycled or reused, and (c) how we can circulate plastic items. This idea is part of the Ellen MacArthur Foundation that has outlined three key principles for Circular Economy, "(a) design out waste and pollution, (b) keep products and materials in use, and (c) regenerate natural systems." The ranking of the ideas are based on 4 criteria of originality (40%), potential impact (20%), presentation (20%) and multidisciplinary approach (20%).

Digital Badging

On Nov 18, Dr. Lori Swinney, from UND's Teaching Transformation & Development Academy (TTaDA) met with the board members and explained the digital badging ideas. Digital badges help to recognize, validate, and share these efforts. Badges document and record our professional development activities. Instead of maintaining files of paper certificates or letters confirming participation, we can add a link of the digital badge to our resume. The Digital Badge Initiative at UND is not only about documenting attendance at events, it is also about detailing the outcomes of the event, emphasizing accountability and application of new skills. Digital badges have the potential to facilitate digital networking and create communities of learning and engagement. In whatever form your lifelong learning takes, we hope that you will consider participating!

Badging Levels & Descriptions: Foundational – first level is achieved by participating in a professional development event. Examples include workshop, forum, and symposium. Intermediate – second level is earned by applying what was learned during an event. Specific badge application criteria, evidence, are identified as outcomes and may include, report writing, project development, and/or demonstration of use. Advanced – third level is earned by sharing your knowledge and work with colleagues in and/or outside of our higher education community.

Jodsaas Center is considering to apply for digital badging for Big Ideas Challenge and Workshop Series. More information to come.

This course, which will be offered in Spring 2020 and instructed by Dr. Surojit Gupta, is geared towards students who are interested in entrepreneurship. More specifically, the course will inspire students to learn about developing successful technology ventures by using a holistic approach. In order to fulfill this objective, the course will cover the following aspects :

- how to design a successful start-up; business strategy, business idea generation, etc.,
- how to assemble a focused team for a successful venture
- how to reallocate different resources; human resource management. etc.
- how to promote creativity, innovation, IP generation, and procedures for product development in different engineering streams (product design/prototype, marketing, pricing, distributing and selling, franchise, etc.).
- How to present a successful investor pitch and writing a successful business plan

Contact (*WE ARE HERE TO HELP!*)

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