



INGENIUM

noun: from Latin meaning natural talent or disposition (think “ingenious”)

Benedictine College - School of Engineering Newsletter

Vol 5 Issue 2— Spring 2022

*Chemical Engineering * Civil Engineering * Electrical Engineering * Mechanical Engineering*



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Alumni, we'd love to hear from you!

Hearing from our engineering alumni simply makes our day.
Please consider checking in with us and sharing your success
story or important events in your life

Engineering Students, Have a Great Story? A Fun Picture?

Please submit it for consideration in the next issue!

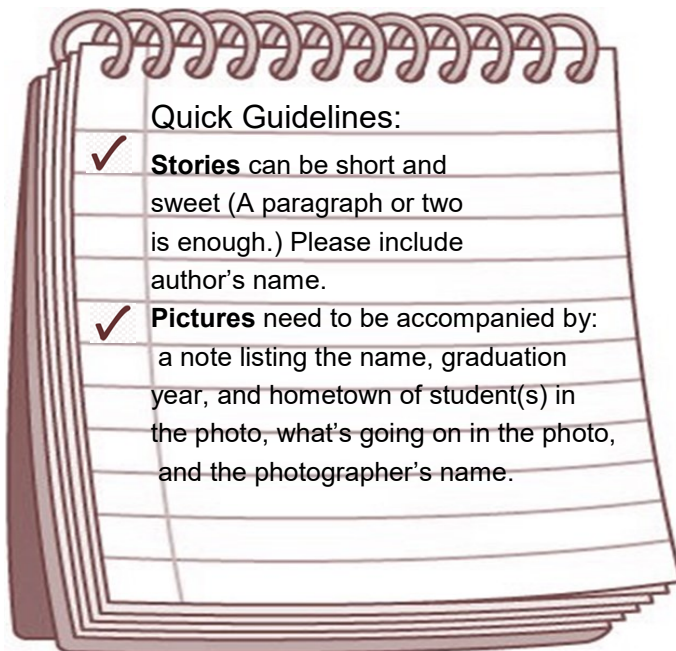
Send submissions to:

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New NSPE Student Chapter

In Spring 2022, the new student chapter of NSPE (National Society of Professional Engineers) was founded at Benedictine College. Professor Michael Berry, along with Tyson Albright, Anna Arensberg, and Julia Jochum recognized the important networking potential that the Benedictine School of Engineering students could obtain through the new chapter. The first NSPE meeting introduced students to local professional engineers and educated them about the importance of protecting the licensure standards of engineers.

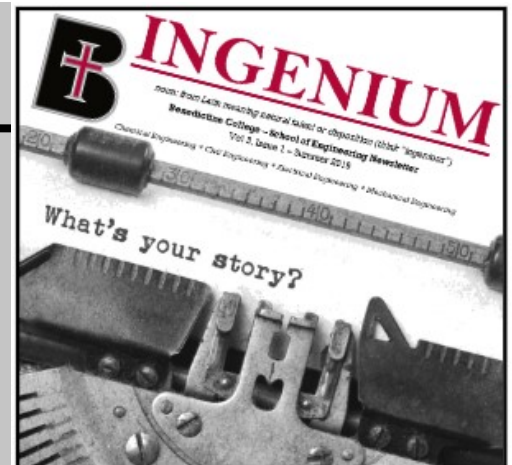


Above: a few of the engineers who came to the student chapter luncheon to answer questions about NSPE

Justin Nichols, Anna Arensberg, and Professor John Modlin attended a NSPE luncheon in Kansas City to network and promote the Benedictine School of Engineering.

Get Involved

Want to be a part of the newsletter team or maybe you have a great story to share about the department? Perhaps, you're a recent graduate working for a great company and want to tell us about it? Contact either Professor John Modlin at jmodlin@benedictine.edu or Janis McGregor at jcmgregor@benedictine.edu to get your story published.



Student Projects

Vintage Engine Donation

Ed Ciarniello '70, donated a model 1965 Ford Mustang V8 engine to the Benedictine College Engineering Department, which was gifted to him by his friend, Reggie Gant. Both Mr. Ciarniello and Mr. Gant requested that the engineering students assemble it. Mr. Ciarniello believes that it is important for engineers to build projects and troubleshoot problems. The model engine was a fantastic way to provide hands-on building experience outside of the classroom. The four engineers that took on the task of bringing the model engine to life were Natalee Brake, Isabel Cobb, Jubilee Horton, and Mary Zappe. All of them are junior mechanical engineering students. Just as Mr. Ciarniello anticipated, the students encountered a few issues while assembling and testing the model engine. The engineers disassembled and reassembled the engine multiple times before successfully fixing the engine.

The junior engineering students appreciate Mr. Ciarniello and Mr. Gant's generous donation and the valuable experience gained by completing the project.



First Career Fair!

By: Anna Doyle

The School of Engineering hosted their first ever in person Career Fair on October 27, 2021. Jennifer Dittmore, Director of Career Services at Benedictine College, working with Dr. Sprouse, invited companies to come and talk with students about internship and employment opportunities. There were 13 companies in attendance, some coming all the way from St. Louis, MO. Among the recruiting company representatives were a few Benedictine alumni, including Ryan Lobb '20 of Actalent, Austin Miller '17 of Heatron, and Julianna Lassiter '20 of KDOT.



Christmas Parade Float

By: Jubilee Horton

For the fall semester project in Professor Modlin's Design of Machinery class, the mechanical engineering juniors were tasked with building a Christmas float. Each year, the city of Atchison hosts a Parade of Lights, and Benedictine College is represented by the School of Engineering. The theme of the float was based on the movie, *How the Grinch Stole Christmas*. Eight teams were tasked with building their own mechanism with moving parts, using concepts learned in class. The juniors did all the design and then built the mechanisms in the engineering shop with the help of Mr. Sean Bauer. Other students helped decorate the float, which won second place out of 24 entries in the Business/School/Non-Profit Category.





Society of Women Engineers

By: Isabel Cobb

The Society of Women Engineers, Benedictine College Chapter had its humble beginnings during Spring 2021, when Dr. Megan Paciaroni (Dr. P) asked why Benedictine College did not have a chapter on campus. I had been thinking about starting a chapter freshman year but was not sure where to begin. When Dr. P asked why there was not a chapter, I figured it was the time to start one. We had the first meeting to gauge interest and it was a big success! From there, the chapter officers were elected and began working hard to plan events for SWE.



The Society of Women Engineers held resume-building event in preparation for the engineering department's first Career Expo. Many of the engineering professors, including the mechanical, electrical, chemical, and civil disciplines were there to help the engineering students build and strengthen their resumes for applying for internships and full-time jobs. SWE and the School of Engineering

also partnered with Jennifer Dittmore, Director of Career Services, to provide a different perspective on the resumes, as well as help students who did not have a resume to start one. The event was a huge success, with over 60 people in attendance.



Robots on Campus



By: Anna Doyle

In Fall 2021, alumnus Austin Windsor '20 came to Benedictine to talk to engineering students about sales engineering and robots. He brought three different types of robots with him including a SCARA robot, a robotic arm, and a self guiding navigation robot. Austin works for HTE Automation, a company that helps build faster, smarter, and safer industrial manufacturing equipment.



Sleep in Heavenly Peace

By: Isabel Cobb

Benedictine College students and other volunteers from around Atchison work together to build bunk beds. Sleep in Heavenly Peace is a nonprofit organization that provide beds for children who do not have one. The BC Chapter started in April 2018 and has delivered 701 beds. Anyone can participate, not only engineering students or people familiar with power tools. Donations of twin size bedding or monetary gifts may be made by contacting Patrick O'Malley.



The next build day is Saturday, June 11 (Alumni Weekend). Learn more at

<http://linktr.ee/shpbenedictinecollege>.





Growing Enrollment

By: Natalee Brake

Over the past few years, enrollment in the Benedictine College School of Engineering has increased dramatically. Engineering is one of the most-pursued degrees at Benedictine College, with Introduction to Engineering classes having over 40 students! The School of Engineering started in 2009 with about 24 freshmen, taught by Dr. Darrin Muggli. Current enrollment is about 250 students and we plan to have 13 full-time professors and two adjunct professors this fall.



Last Looks



INGENIUM

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Ingenium signifies intelligence, character, genius — all of which describe Benedictine College engineers. The use of the Latin language shows solidarity with the Church, whose official language is Latin, and with the scientific community, which for many years communicated primarily through Latin. *Ingenium* is a proud testament to our history and character as engineers and as members of the Benedictine College community.

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