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the Eng Info



SEPTEMBER 11TH

Presidents Message

Welcome all new engineering students, and welcome back to those of you that are returning. I am Robert Ashton, the President of the Saskatoon Engineering Students' Society band this is the first publication of the year of the Eng Info. On to business:

Sidewalk Painting

Sidewalk Painting will be taking place **Monday at 7pm**. Meet in the SESS lounge for some quality shenanigans.

Scavenger Hunt

Our Welcome Week Scavenger Hunt is on **Wednesday at 7pm** starting in the SESS lounge. Come out to have some fun and maybe win some prizes.

College Splash and Eng Ag Olympics

College Splash and Egg Ag Olympics have been rescheduled to **Monday the 25th**. Tickets for the Olympics will be on sale in the SESS office this week.

Finally, everyone's favourite part of the Presidents Message, the terrible joke:

Q: What did the duck say to the bartender?

A: Put it on my bill.

Robert Ashton
SESS President
president@sess.usask.ca

Huskie Formula Racing

Huskie Formula Racing is a student run team at the University of Saskatchewan comprised mainly of engineering and business students but open to all students at the U of S. Each year, we design and build a formula-style race car, and then compete at the two largest competitions in the world - FSAE Michigan and FSAE

Lincoln. Both competitions judge more than 3000 students from more than 80 universities and 8 countries on design and marketing strategies. Team members are able to put the theory they learn in class into real life applications and learn many new hands on skills.

We are always looking for new members interested in the design, build, and marketing of our race cars. Our first meeting for new members is Thursday September 14th at 7:00pm in engineering room 1b71. You can also come visit us at the recruitment fair in the Hardy Lab on Thursday September 14th from 3-5pm. If you are looking to get involved and cannot make it to either of the previous listed events, you can email hfr.fsae@usask.ca, message us on Facebook, or visit us in engineering room 1A25 in the Hardy Lab



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Sudoku and Rebus Puzzles

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Update From



UNIVERSITY OF SASKATCHEWAN
Space Design Team
USST.CA

Mars Rover

Over the past few years, the main project undertaken by the team has been the design and construction of a Mars Rover. The concept behind the rover design is to create a robot which can perform a variety of tasks for a human colony on the surface of Mars. The Rover has competed in both the European Rover Challenge (ERC) and the University Rover Challenge (URC), winning first place at ERC in 2015. The team was also involved in founding the first-ever Canadian International Rover Challenge in 2017. This year, there will be several major sub-projects happening for the rover which will include mechanical, electrical, and software design.

Micro-Gravity Research

Over the past year, the USST took part in a new competition called the Canadian Reduced Gravity Experiment Design Challenge (CAN-RGX), put on by SEDS-Canada in partnership with the CSA and the NRC. The USST's Project STAR-FOX involved testing methods of modifying terrestrial mineral screening methods for use in microgravity, and was selected as one of four projects from across the country to be tested aboard the NRC's Falcon 20 microgravity research aircraft in July 2017.

Satellite Design

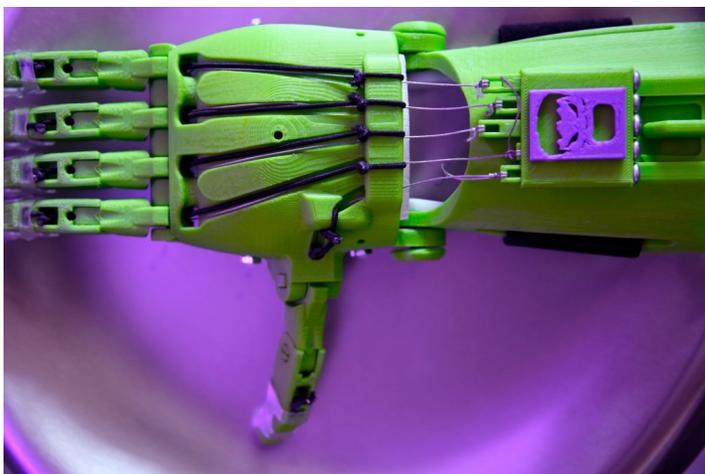
This year, the USST will be taking on a new challenge by participating in the Canadian CubeSat Project. This is a 3-5 year project in which the team will design a small satellite carrying a scientific payload. Should the design and testing be successful, the satellite will be launched from the ISS to carry out a 3-12 month mission in orbit. This is a long-term project, so we are looking for dedicated new members to help carry the project through to completion.

New-Member Rocketry Project

As an introduction to the team and some of the different design and construction methods used, new members are challenged to modify a model rocket to carry a small payload. This project provides an introduction to CAD software, 3D printing, and more. If you're interested in getting involved, come out to our new-member meeting on Saturday, September 16 in room 1A56 of the engineering building. You can also contact us at recruitment@usst.ca, or find us on social media as @UofSSpaceTeam.



SaskInvent is a student group that focuses on biomedical engineering and using technology in healthcare. Most of our projects are rehabilitative or assistive devices meant to enable people to engage in the everyday parts of life that most of us take for granted. We create innovative solutions for people in our community so their quality of life can be improved. SaskInvent has group members from many engineering disciplines, computer science, and the biomedical and health sciences. We are delighted to include anyone in our group that wants to help us reach our goals! Members can gain many important skills and experiences from SaskInvent, including project design and creation, market research, leadership, and networking with people in the healthcare and technology industries. Students work in small teams enabling everyone to have a large impact on their projects.



Most of our projects are selected from requests put forward by people in our own community. Past and current projects include:

1. 3D printed prosthetics for children
2. A vest that enables deaf individuals to “listen” to music through vibrational feedback
3. A device to assist with the rehabilitation of someone with injured tendons in their hand following an automotive collision
4. A page turner that enables individuals suffering from Multiple Sclerosis or compromised upper body mobility to read physical books
5. 3D printed models of real human brains imaged by MRI’s for the use of Dr. Medez in the Department of Surgery at RUH
6. Devices to assist with neuropsychology research
7. An app that gave information to pregnant women infected with HIV

We have more projects on the table for this coming year. Come to a meeting to find out how you could help! Contact saskinvent@gmail.com for more information.



Sled Dogs 1/4 Scale Tractor Team

The University of Saskatchewan Sled Dogs 1/4 Scale Tractor team is a student run design team based out of the College of Engineering open to students from all disciplines and all colleges across campus.

Every year since 2002, the Sled Dogs have travelled to Peoria, Illinois to compete in the American Society of Agricultural and Biological Engineers (ASABE) International Quarter Scale Tractor Student Design Competition. The primary event of the competition is the tractor pull, where each team attempts to pull a progressive sled the furthest to demonstrate their tractor’s performance. Along with the tractor pull, the performance category of the competition consists of durability and maneuverability courses.



Sled Dogs 1/4 Scale Tractor Team Cont.



Other key aspects of the competition include design judging, a marketing presentation, and a written design report. The ASABE competition was created by, and remains judged by, industry professionals from many major agricultural and construction machinery manufacturers in North America. Involvement in the competition is a great way for students to learn teamwork, engineering design and manufacturing process, and network with other students, industry professionals and employers.

The Sled Dogs recently made their 16th appearance at the competition which ran from June 1-4, 2017. The team finished 7th place overall out of 27 teams from Canada, Israel and the United States and brought home 1st place awards for Written Design Report and Appearance. This is the team's first top 10 finish since 2012. The competition this year was one of the most competitive in recent years. The Sled Dogs

finished with 1,985 total points (out of 2,320 total possible points), landing only 68 points below Purdue University in first place.

The Sled Dogs are looking for new team members for the 2017-2018 season and will be hosting a night of tractor pulls, shop tours and general discussion for students interested in joining the team. We will be meeting in the Hardy Lab at 6:00 pm on September 19th. We hope to see you there!

If you have any questions, stop by room 1A25 in the Hardy Lab or email quarterscale.usask@gmail.com.



BE SOMETHING

CHESSE PEROGIES

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7	5	9	1	6	4	2	3	8
6	8	3	5	9	2	7	4	1

Check back next week for the solution to the sudoku and rebus puzzles! For now, here is a solved Sudoku that you've never seen before just for kicks, but at least you know where to look next week

Let us know if the puzzles are too easy or hard and what you'd like to see more of.

When the upper years show the first years around the basement



Meme brought to you by
[@engineering_memes_uofs](#) via Instagram

Thanks for reading!

If you have any questions or comments about this or other editions of the Eng Info, please contact the editor:

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The Eng Info is brought to you by the Saskatoon Engineering Students' Society

