



CO-OPERATIVE
EDUCATION

Faculty of Engineering and Applied Science

SYNERGIES

THE CO-OP NEWSLETTER

CELEBRATING STUDENT SUCCESS!

The first annual Director's Awards Luncheon was held on March 22, to celebrate student achievements in co-operative education and to recognize the employers who have played a key role in our students' successes.



Figure 1: Award Recipients
(submitted by Angela Haynes)

The Director's Awards for Exemplary and Outstanding Work Terms were presented to senior students who have exemplified excellence on completed work terms over the course of their program. The Engineering Co-operative Education Office also recognized approximately 30 partner organizations for providing supportive and exceptional learning environments conducive to student success.

For more information:

<https://www.mun.ca/engineering/news.php/news.php?id=10664&type=news>

PREPARING FOR GRADUATE EMPLOYMENT

JESSE VERBISKI, WORK TERM 5, PROCESS

Entering my last work term, I wanted to find a job that would prepare me for my career as a process engineer. At Brunswick Smelter with Glencore, I was given the opportunity to fulfill that goal. I was exposed to both industrial hands-on experience and technical engineering experience through the exciting day-to-day operations of a processing plant.

A typical day at the smelter was both routine and spontaneous. The routine included updating daily production reports to prepare for meetings, completing sampling on feed materials and monitoring process equipment. I also had the opportunity to be involved with continuous improvement and safety-related projects. There was always an opportunity to learn and the team at Glencore were always delighted to help.



Figure 2: Brunswick Smelter
(submitted by Jesse Verbiski)

This work term allowed me to gain the skills that I need to become a resourceful engineer upon graduation. I truly appreciated the opportunity to work with Glencore.

FALL WORK TERM:

Aug. 20 – Dec. 19, 2018

Job competition starts:

May 10, 2018

Interviews start:

May 22, 2018

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SPRING TERM DATES:

Apr. 30 – Aug. 17, 2018

CANADA'S MINING INDUSTRY & WORK- INTEGRATED LEARNING

The Mining Industry Human Resources Council's "Gearing Up Program" is designed to develop mining talent through work-integrated learning.

For more information:

<http://canadianminingmagazine.com/gearing-up-developing-mining-talent-through-work-integrated-learning/>

HIRED BY TESLA

Matthew Lane, Memorial University, and Mark Comeau, College of the North Atlantic, have been hired by Tesla as "Professional Problem Solvers".

For more information:

<http://www.cbc.ca/news/canada/newfoundland-labrador/elon-musk-tesla-newfoundland-interns-hired-1.4663270>

INNOVATIVE LEARNING OPPORTUNITY

MATTHEW GRANT, TEACHER, HOLY TRINITY HIGH SCHOOL

In the fall semester of 2017, Holy Trinity High employed two engineering students from Memorial's Service Learning program: Kurtis Galway and Jordan Pinsent. The interns helped develop the school's newly created Makerspace, which is a student project workspace, as well as several other projects around the school with their main focus centered on the school's aquaponics system.



Figure 3: Aquaponics Unit
(submitted by Matthew Grant)

Jordan meticulously catalogued all of the aquaponics system components and how they were assembled. He wrote a thorough manual in order for others to replicate our system consulting with experts in the field to ensure its accuracy. The manual has been provided to other schools to assist them in developing their own aquaponics system.

Kurtis developed software to access sensor data from a Raspberry Pi. The small computer pulled data from temperature, pH and dissolved oxygen sensors to give an accurate measurement of the system's health. Water height was also measured which enables the school to monitor water evaporation. To facilitate monitoring, Kurtis wrote a program to tweet data to followers of @HTHAquaponics.

Not satisfied with a fully automated aquaponics system, the pair modified Google Assistant software to allow the aquaponics system to respond to verbal commands. Students asking the system, "ok Google, what is the status of the aquaponics system?" received a verbal reply of the water's height, temperature, pH and dissolved oxygen.

Holy Trinity High was very impressed with Kurtis and Jordan's work and enthusiasm. We look forward to continuing our partnerships with the service learning program to develop more innovative learning opportunities.

INTRODUCING HIGH SCHOOL STUDENTS TO THE LATEST IN TECHNOLOGY – MOBILE, NL

TINA PUTT P.Eng., ASM-CE, ECEO

Jordan Roche was busy during his first engineering placement working with the students at Mobile Central High and introducing them to the latest in technology.

He taught students SolidWorks, CAD and 3D printing. In addition, he coached and mentored the school's robotics team as they prepared for the Marine Advanced Technology Education (MATE) ROV competition. The team scored well in the competition and received the Monk Fish Award for the most ferocious ROV. Jordan enjoyed the opportunity to introduce students to the field of engineering and is looking forward to his next work term.



Figure 4: Robotics Team
(submitted by Gary Petten)

IN MEMORIUM



JOHN HUDSON
1946 - 2018

We lost a very dear friend at the co-op office on April 3rd, 2018. As most of our co-workers and alumni know, John Hudson was a pioneer for engineering co-operative education at MUN. His career spanned over 20 years and he worked tirelessly with students and the faculty to promote and brand the co-op program internationally. His efforts to open doors in Europe and the U.S. have resulted in enriched opportunities for our students and graduates, industry knowledge transfer to and from our province, and a strong personal relationship to all who have had the pleasure of working with him. John's genuine devotion to helping and guiding students, wonderful sense of humor, and love and keen passion for remembering every line of every classic movie, will dearly be missed. We are thinking of his family and friends at this time and wish to acknowledge his exceptional life from his colleagues and co-workers here at MUN.

CLAIRE AVERY, ASM-CE, ECEO

ENGINEERING REUNION

OCTOBER 12, 2018

S.J. Carew Building, St. John's
Classes of '78, '83, '88, '93, '98, '03 & '08

Register here:

<http://www.mun.ca/engineering/community/alumni/reunion/>

Contact: Corenb@mun.ca