



ENGINEERING CHANGE

Quarterly update highlighting the School of Engineering's signature projects and achievements during the past four months.

A donor-funded campaign to build a permanent memorial commemorating the young women whose lives were taken during the tragic 1989 École Polytechnique massacre in Montreal is into its last few weeks. The memorial, to be located outside the EME, will serve as an important focal point on the Okanagan campus where the community can gather and celebrate its welcoming and inclusive environment.

The proposed interactive public art piece, located in a highly visible location on the UBC Okanagan campus, is being created by multidisciplinary Indigenous artist and UBCO Creative Studies assistant professor Tania Willard and Berlin-based Syilx Nation artist Krista Belle Stewart. The installation features an elevated, working firebowl surrounded by permanent seating

With initial contributions from the Engineering Undergraduate Society (EngSoc), the School of Engineering, Dean of UBC's Faculty of Applied Science, UBC Okanagan Provost and Deputy Vice Chancellor, the campaign is nearing its goal. To learn more about the campaign, and how you can contribute, visit <https://give.ubc.ca/projects/14-not-forgotten/>.

This month, the Okanagan campus and the School of Engineering welcome back students. The resumption approach by UBC follows the Province's Restart Plan with many measures and safeguards in place to ensure the campus community is safe. A reminder that non-medical masks are recommended in common indoor spaces.

Homecoming at UBC Okanagan takes place September 24-25, 2021. Many in-person and virtual events are planned including a special Innovation and Entrepreneurship event featuring presentations by the School's four Innovation, Entrepreneurship and Impact funded teams who have spent the summer developing projects intended to solve real-world problems. The Innovation and Entrepreneurship event will take place on Friday September 24 from 6pm until 8pm. More details including an announcement about a prominent keynote will be made shortly. Check out the latest UBC Okanagan Homecoming 2021 schedule at <https://ok.ubc.ca/homecoming/>.

At the end of August, Manufacturing instructors and technicians hosted a hands-on session in the brand-new National Coalition of Certification Centres (NC3) for the first cohort of Skills in Industrial Automation micro-credential program.

This cohort had completed the introduction to Programmable Logic Controller (PLC) training virtually in early February.

The School of Engineering has welcomed several new staff over the summer including Ayse Alemdar Thomson (Project Manager / Business Developer), Samita Paliwal (Support Services Assistant), Kyle Watson (Engineering Advisor), and Matthew Brown (Technician).

Visit engineering.ok.ubc.ca for program details & collaborative research opportunities

SCHOOL OF ENGINEERING LEADERSHIP TEAM

- Rehan Sadiq - Executive Associate Dean
- Lukas Bichler - School Director *pro tem*
- Yang Cao - Associate Director, Undergraduate Studies
- Sumi Siddiqua - Associate Director, Graduate Studies
- Joshua Brinkerhoff - Associate Director, Research and Industrial Partnerships
- Rudolf Seethaler - MEng Coordinator
- Zheng Liu - Civil Engineering Program Chair
- Julian Cheng - Electrical Engineering Program Chair
- Dimitry Sediako - Mechanical Engineering Program Chair
- Homayoun Najjaran - Manufacturing Engineering, Program Chair
- Colin Wilson - Director, Research and Industry Partnerships (250-317-7688)

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UBC Engineering - Okanagan (Group)



THE UNIVERSITY OF BRITISH COLUMBIA

School of Engineering

Faculty of Applied Science
Okanagan Campus

ENGINEERING CHANGE REPORT

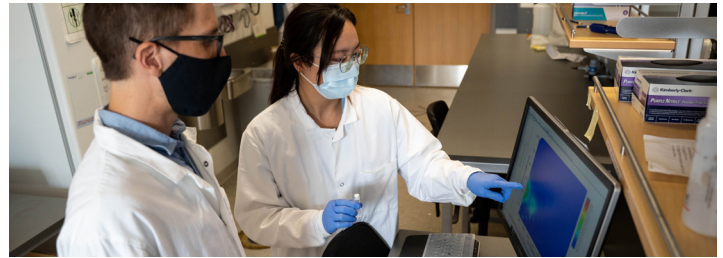
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Michael Benoit recognized by MetSoc

Manufacturing Engineering Assistant Professor Michael Benoit has been selected as a Emerging Professional (EP) by the Metallurgy and Materials Society (one of four societies and five divisions of the Canadian Institute of Mining, Metallurgy and Petroleum). The EP program is intended to recognize up-and-coming leaders in their field.



Researchers light the way to cleaner water

Researchers are testing the use of fluorescence to monitor water quality. Civil Engineering Assistant Professor Nicolas Peleato and his graduate student Ziyu Li have devised an approach that addresses the challenge of source-specific models through mapping their similarities, and detects contaminants such as hydrocarbons.



New Manufacturing course merges data with control systems

A new fourth-year course launching in September 2021 will introduce students to the latest in industrial standards, and research challenges such as process monitoring and human-machine interaction through practical case studies. MANF 465 is led by Ahmad Al-Dabbagh, an assistant professor and principal's research chair in control systems.



Height of handrail plays pivotal role in reducing injuries

New research, led by Assistant Professor Vicki Komisar is helping to develop WorkSafe BC guidelines. Using 3D motion capture and measurements related to the users grasp of the rail, Dr. Komisar and research collaborators from the Toronto Rehabilitation Institute were able to identify an ideal height range of a handrail to keep users safe.



Among international collaboration to address extreme heat

Associate Professor Joshua Brinkerhoff is among an international group of over 25 researchers from across the globe who were recently awarded \$6-million to promote healthy and resilient cities during high-temperature events. Through advanced computational modelling and simulation, the researchers will create outdoor localized comfort hubs.



School of Engineering alumna makes the podium at ISIT

UBC Okanagan's Communication Theory Lab Alumna Sarah Bahanshal was selected among the 3 winners of the "Four Minutes, Two Techniques Contest" held during ISIT 2021. Bahanshal completed her MSc in June, and was selected as a Faculty of Applied Science Rising Star.

For more information about the School of Engineering visit engineering.ok.ubc.ca. For the latest on campus resumption at UBC Okanagan visit ok.ubc.ca/covid19.

engineering.ok.ubc.ca

