



# ENGINEERING CHANGE

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

The School of Engineering (SOE) at the University of British Columbia's (UBC) Okanagan campus continues to be one of the fastest growing engineering programs in Canada. With a total student population of close to two-thousand, the School provides an exceptional academic environment bolstered by leading researchers. Driven by curiosity, and the goal of uncovering solutions that lead to meaningful change, the engineering programs at UBC Okanagan are making an important impact throughout the region, across Canada and around the world.

It has been an exciting year for SOE students featuring atmospheric research in conjunction with the Canadian Space Agency, and hosting a number of large-scale, student-led engineering conferences. A group of students, supervised by Professor Jonathan Holzman, won the opportunity to launch a science experiment into the stratosphere with help from the Canadian Space Agency. While the Engineering Society hosted the 2019 Western Engineering Student Societies Team Executives Meeting and the 2019 Canadian Federation of Engineering Student Presidents' (CFES/FCEG) Meeting.

The SOE launched a new academic program in September 2019. **Manufacturing Engineering** joined Civil, Electrical and Mechanical Engineering. The program is the first cross-campus offering from UBC's Faculty of Applied Science. A shared curriculum is taught at both campuses with the final year of specialization split between the two campuses. Visit [engineering.ok.ubc.ca/manufacturing](http://engineering.ok.ubc.ca/manufacturing) to learn more.

For the 2019 fiscal year, the SOE generated \$8,170,865 in research funding. That result represented a \$2.4M increase over 2018. With new collaborations, purpose-built facilities, and the addition of new research faculty, research funding growth is expected to continue.

In mid-October, the SOE received news that NSERC has conditional approved an Industrial Research Chair (IRC) program in Advanced Resource Recovery from Wastewater for UBC Okanagan.. The IRC announcement follows the FortisBC Smart Chair and the Canada Research Chair (Tier 2) in Advanced Materials and Polymer Engineering announcements earlier this year.

Visit [engineering.ok.ubc.ca](http://engineering.ok.ubc.ca) for program details & collaborative research opportunities

## SCHOOL OF ENGINEERING LEADERSHIP TEAM

Rehan Sadiq - Executive Associate Dean  
Mina Hoorfar - School Director  
Yang Cao - Associate Director, Undergraduate Studies  
Richard Klukas - Associate Director, Graduate Studies  
Lukas Bichler - Associate Director, Research and Industrial Partnerships  
Rudolf Seethaler - MEng Coordinator  
Zheng Liu - Civil Engineering Program Coordinator  
Julian Cheng - Electrical Engineering Program Coordinator  
Dimitry Sediako - Mechanical Engineering Program Coordinator  
Homayoun Najjaran - Associate Director, Manufacturing Engineering  
Colin Wilson - Director, Research and Industry Partnerships (250-317-7688)

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UBC Engineering - Okanagan (Group)



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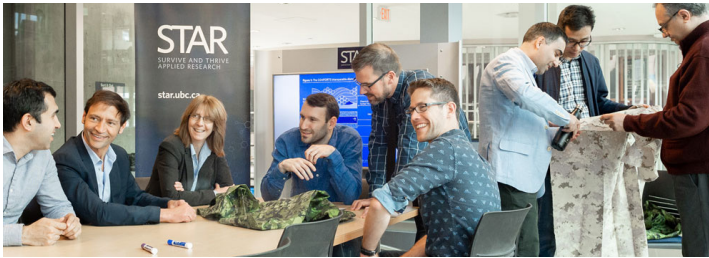
School of Engineering

Faculty of Applied Science  
Okanagan Campus

# ENGINEERING CHANGE REPORT

December 2019

Issue 001



## UBC Okanagan awarded \$1.5M in IDEAs funding

The Government of Canada announced today that UBCO has been awarded \$1.5M to develop more comfortable gear for the Canadian military. Dr. Golovin is leading the Comfort Optimized Materials For Operational Resilience, Thermal-transport, and Survivability (COMFORTS) Micro-network.



## Conference recognition for School of Engineering

Assistant Professor Liwei Wang & graduate student Levi Bieber whose paper "An Active-Forced-Commutated Thyristor-Based Multilevel Converter for HVDC Transmission" was recognized with a Best Paper Award at the IEEE IEMCON 2019 conference in Vancouver.



## UBC Okanagan, Okanagan College & Foresight sign MOU

New agreement between the School of Engineering, Okanagan College and Foresight Cleantech expands clean technology initiatives currently underway by supporting and growing the industry in BC and beyond. Most of the initiatives relate to the Green Construction Research & Training Centre.



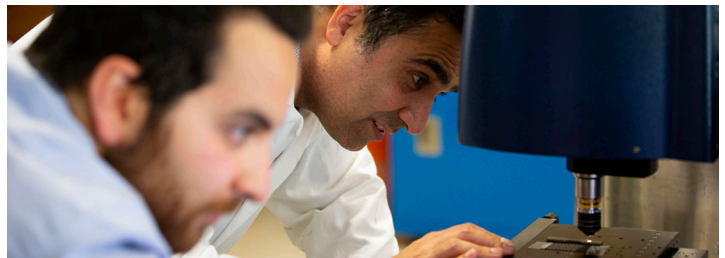
## Jonathan Holzman recognized by Engineers Canada

Engineers Canada fellowships honour individuals who have given noteworthy service to the engineering profession through their work with either Engineers Canada or its provincial and territorial engineering regulators. Holzman received an Engineers Canada Medal of Distinction in Engineering Education in 2017.



## SOE alumnus recognized by ACGC

Aditya Chauhuri (Electrical '17) was recognized as a top 30 under 30 by the Alberta Council of Global Cooperation. Aditya recently traveled to Ottawa where he assisted in the implementation of Canada's Feminist International Assistance Policy internationally.



## UBC engineers seek to keep stone waste out of landfills

Using polymers and natural stone slurry waste, Abbas Milani and his team at the Composites Research Network Okanagan Laboratory with collaboration from the Materials and Manufacturing Research Institute have developed an environmentally friendly stone composite.

Between 2018 and 2019, 51% of School of Engineering research was published in Top 10% journal percentiles by CiteScore percentiles (the highest percentile of any engineering program in Canada).