



HUMBER

Faculty of Applied Sciences & Technology



FAST News

FEBRUARY 2022

DEAN'S MESSAGE

Dear Colleagues,

February is the border month between winter and spring when we still feel the chill in the air, but the lengthening hours of daylight offer a glimmer of hope that spring is on its way.

Our team continues to push boundaries and this is evident in the recent announcement that Humber College has claimed the second spot in the Canadian College Research Ranking and the highest ranked research college in Ontario! FAST research teams continue to collaborate with industry and community partners to help solve real world issues and the past 5 years have been a remarkable journey exploring unlimited possibilities.

We support collaboration, applied research, and innovation at Humber College and I am truly proud of the remarkable initiatives by Humber FAST faculty & staff. I am sincerely grateful for the dedication, commitment and contributions from my leadership team who continue to push these boundaries and I look forward to continuing to develop a lively and inclusive research culture at Humber.

This month, we will see the Humber College community embrace Black History Month and continue to celebrate the remarkable accomplishments of our faculty, staff and students.

I am excited to announce our FAST family is expanding with two new full time faculty team members who bring a passion for higher education. Órla Keane joins our Design and Built Environment cluster with a wealth of experience from various academic and industry capacities including retail, exhibition and sustainable design. No stranger to FAST, Ali Owayid has been working as an FT technologist for our faculty and now joins us as a full-time professor in our Information, Communication and Technology cluster. Welcome Órla and Ali!

[Continue reading on next page.](#)

**WE ARE
FUTURE FOCUSED**

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I love hearing stories of how we are bringing the Humber community to the world and trust you will be inspired to read how some of our Interior Design students designed an incubation hub in the Maldives – from the comfort of their own homes!

This month's Work-Integrated Learning Success Spotlight profiles Industrial Design student Harry Cotaras and his work placement at Soheil Mosun Ltd., a custom architectural manufacturer of grand staircases, public monuments & art interiors. His hands-on experience working with skilled fabricators to create brass patinated panels is remarkable.

Next month, FAST looks forward to honouring International Women's Day and continuing to advance engineering education and emerging technologies as the lead partner of National Engineering Month – Canada's largest celebration

of engineering excellence. This month-long March initiative and virtual conference will spark bold discussions with diverse perspectives from engineering professionals, students, educators and industry. I hope you will join us as we host two events with a panel of leaders from academia and industry.

The health and well-being of our campus community remains our top priority and I am grateful for your continued patience as we optimistically prepare for a safe return to learning. Thank you for your continued support and I look forward to connecting with you soon!

With gratitude,
Dr. Farzad Rayegani, P.Eng, FEC.
Senior Dean

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HUMBER TAKES SECOND SPOT IN CANADIAN COLLEGE RESEARCH RANKING

We are pushing boundaries.

Congratulations to our FAST community who have played a key role in advancing Humber College to claim the second spot in the Canadian College Research Ranking and the highest-ranked research college in Ontario!

Our FAST faculty and student research teams continue to collaborate with industry and community partners to help solve real-world issues and the past 5 years have been a remarkable journey exploring unlimited possibilities.

We support collaboration, applied research, and innovation at Humber College and are proud of the remarkable initiatives by Humber FAST faculty & staff. This ranking showcases the resiliency and steadfastness demonstrated by the outstanding Humber Research and Innovation

community led by Dr. Ginger Grant and Dr. Tania Massa, and demonstrates how faculty, staff, and students continue to find innovative ways to collaborate and engage with industry.

Building innovative ecosystems is key to economic development in Ontario and Canada and we will continue to break down obstacles to applied research and further develop a lively and inclusive research culture at Humber.

Read this [Humber Today feature story](#).



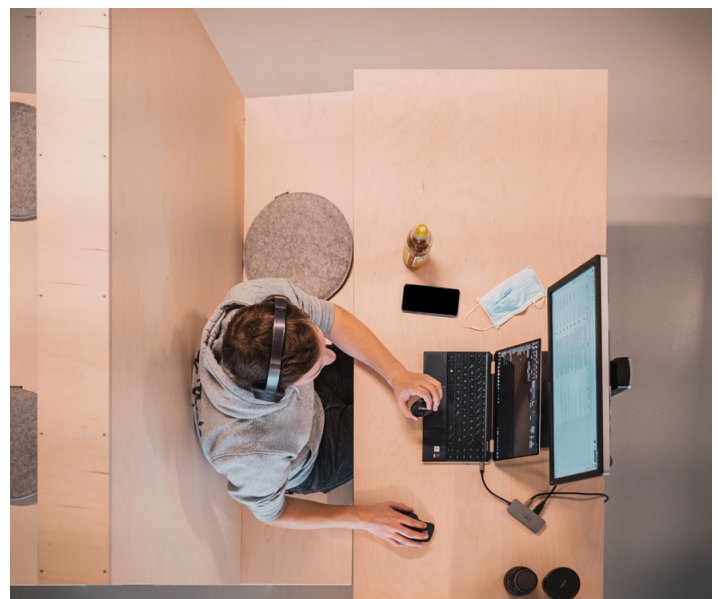
HEC MONTREAL LAUNCHES NEW RETSCREEN COURSE

Humber College is participating in a small private online course!

Developed by HEC Montreal, Dr. Shahriar Ghahremanian, Dr. Dragos Paraschiv and Dr. Setareh Janbakhsh are providing an opportunity for their students to participate in this online training tool.

This free training course teaches students to use RETScreen, a well-known software program developed by Natural Resources Canada, and is available until Summer 2022.

For more information and to receive the free registration code valid until April 2022, please contact Dr. Shahriar Ghahremanian at shahriar.ghahremanian@humber.ca.



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MARCH IS NATIONAL ENGINEERING MONTH

Humber FAST is a proud partner of National Engineering Month – Canada’s engineering event of the year!

NEM 2022 will continue to focus on lifelong learning for post-secondary students & interdisciplinary professionals as well as equity, diversity & inclusion.

We will be hosting two events in March with bold topics, industry expertise and diverse perspectives to spark discussion.

Tuesday, March 8 at 6:00 PM

International Women’s Day

Theme Week: Lifelong Learning

Title: Humber College Champions Women in STEM

Description: A panel of fearless women and supportive men will share their authentic stories and how there is strength in our differences to bring innovation, productivity, and pride to a more elastic workforce. Join us as we inspire, connect and empower participants to recognize and celebrate International Women’s Day.

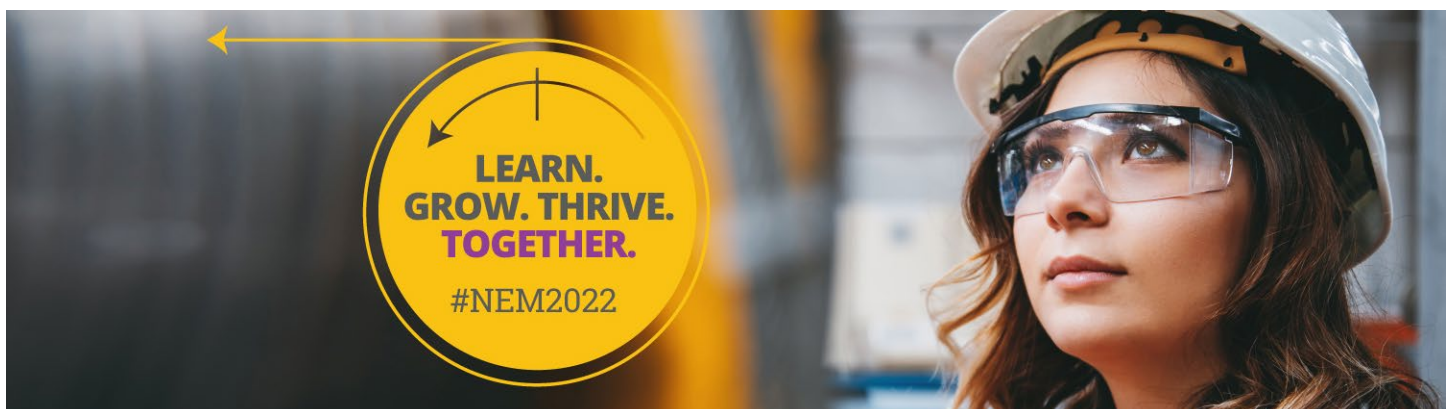
Friday, March 25 at 6:00 PM

Theme Week: Equity, Diversity & Inclusion

Title: Humber College Drives Inclusive & Continuous Professional Learning

Description: Leaders from academia and industry will share the importance of leveraging our diversity and providing all Canadians with the opportunity to gain current, industry relevant skills. Join us as we discuss the importance of personal and professional growth needed for a world of constant change.

Visit the [NEM website](#) to register and for a full listing of events.



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NEW RAPIDSKILLS ADVANCED MANUFACTURING MICRO-CREDENTIALS PROGRAM TO BUILD STRONG WORKFORCE

We are preparing Ontarians for in-demand jobs.

Humber College launches its new, provincially funded micro-credentials course to support workers with the advanced manufacturing skills necessary to get hired and progress in the industry. The RapidSkills, Advanced Manufacturing Micro-credentials program is for people who are unemployed, underemployed or those who have prior credentials and need their skills officially recognized.

FAST is playing a significant role in addressing the skilled trade shortage in Ontario & demonstrating our commitment to building a strong skilled workforce. The first cohort of the Advance Manufacturing micro-credentials programs starts February 2022.

Read this [feature article in Canadian Manufacturing](#).



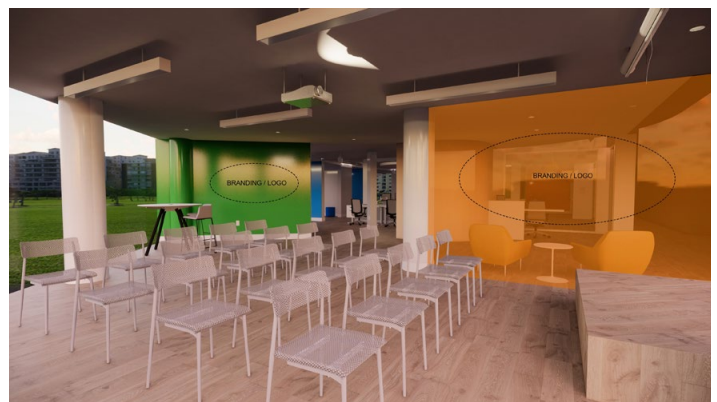
INTERIOR DESIGN PROF AND STUDENTS DESIGN ENTREPRENEURSHIP HUB IN THE MALDIVES - FROM THE GTA

We are taking Humber to the world!

Bachelor of Interior Design professor Zaiba Mian and two of her students, Lily Donald and Nicola Klahre, participated in the Maldives Enhancing Employability and Resilience of Youth (MEERY) project to promote equitable economic and social progress in the country.

Led by Seneca College in collaboration with Global Innovation & Skills Development Canada (GISDC), the team spent four months researching and working on designing the HIVE - an entrepreneurship incubation hub in Maldives that will increase employment and earning opportunities for local youth. The hub will provide opportunities to access coaching, mentorship and business expertise and will also play a key role in developing an entrepreneurial mindset across the country - specifically among youth and females.

Read this [Humber Today feature story](#).



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WELCOME TO FAST!

Órla Keane MSc, BA

Professor, Design and Built Environment

Órla joins us with experience from various academic and industry capacities with a specialty in retail, exhibition and sustainable design.

She earned an MSc in Sustainable Development for the Built Environment, a BA in Interior Design and has worked as an interior designer and sustainability consultant on both residential and commercial projects.

Órla spent six years as a senior designer with Selfridges' Arnotts of Dublin and lectured for the Design Faculty at Griffith College Dublin, where she was integral in the implementation of Ireland's very first MA Interior Architecture. Following, Orla taught at TU Dublin's School of Creative Arts, where she established a student exchange program between TU Dublin and Ryerson University's School of Interior Design. She also taught for the Fashion Faculty of several secondary and college sectors specializing in mentoring retail design start-ups and environmental design.



Ali Owayid

Professor, Information, Communication and Technology

No stranger to FAST, Ali has been working as an FT technologist for our faculty since 2017 and was instrumental in setting up the Data Centre at BCTI working closely with industry partner, Cisco. He has also been teaching part time at Humber as well as other Ontario colleges.

Since he earned his M.Sc. in Information Technology Management, Ali has gained valuable industry experience as an IT specialist and network administrator. He developed his skills and knowledge in cybersecurity through several industry certificates and has developed course curriculum in cybersecurity.



Please join us in extending a warm welcome to our newest FAST members!



WIL SUCCESS SPOTLIGHT

Harry Cotaras

Program of Study: Bachelor of Industrial Design

Work Placement: Soheil Mosun Limited

Where did you do your work placement?

I did my work placement at Soheil Mosun during the summer of 2021. Soheil Mosun Ltd. is a custom architectural manufacturer of grand staircases, public monuments & art and elevator interiors. While they primarily focus on metal fabrication, the finishing details, installation of projects, and project management, they are not afraid to take on new challenges for clients.



What were some of the most important things you learned during your placement, and why were they so important?

The most important thing I learned while at Soheil Mosun Ltd. was teamwork. That is not to say I did not practice being an active team member well beforehand, but rather, it was a reminder that we cannot do everything on our own. Working as a team gives much greater results than just working by yourself, and communication between team members is huge.

The second most important thing I learned was understanding the fabrication process and getting a feel for the methods used to make things, as I had the opportunity to work alongside skilled fabricators. For example, I helped with a large private development on Halifax, Nova Scotia's harbour titled Queen's Marque. The scale of Queen's Marque is huge! Soheil Mosun has been shipping products out to Halifax for nearly three years now - the entire development is clad in brass patinated panels. The panels could range from a few feet wide to 12 feet. We also worked on the interiors of elevators and public art displays surrounding the building. The scale and scope of the project is something I take pride in being a part of.

What advice would you give to other students who will soon be participating in their mandatory work placement?

I would advise students to have an open mind. Be curious with any and all opportunities that come your way. Send out as many emails and applications as you can, and most of the time companies will graciously give you their time. Create your own opportunities. I believe that with this mindset you will always be able to make the best of any work and situation life puts you in. You will also be able to learn more and it will show your employer that you are interested!

What advice would you give to students interested in pursuing a career in Industrial Design?

For incoming students who are interested in Industrial Design, and perhaps maybe more the manufacturing side of it, I would suggest getting your hands dirty! Work in a workshop, understand the workflow of manufacturing a product, how to ship it safely (an often overlooked, but a very important part) and all the small challenges that need to be overcome to get a product on site or on shelves. You may not want to be working in a workshop as your career, but it will certainly open your eyes to a new perspective and the information and experience you gather will be invaluable.



BARRETT CENTRE FOR TECHNOLOGY INNOVATION

SICK CANADA EXTENDS AGREEMENT AND CONTINUES INDUSTRY 4.0 READINESS WITH HUMBER

SICK Canada has officially signed the extension of their existing partnership agreement for a further two-year period, extending until December 31, 2023.

FAST faculty and staff will continue to benefit from this partnership with new learning pathways and opportunities for students, faculty and industry experts to collaborate on the latest technology to solve real-world industry automation and Industry 4.0 business challenges.

A founding member of Humber's Advanced Manufacturing Skills Consortium, SICK will continue its investment providing training opportunities for students, scholarship support and in-kind contributions of products and services to support the SICK Sensor Lab, totaling \$110,000 with annual contributions provided in 2022 and 2023.



NEW STRATASYS FORTUS 900 PRINTER

Humber was recently awarded \$2.5 million in grants from the Canadian Foundation for Innovation (CFI) to build an end-to-end IoT ecosystem for a full spectrum of collaborators within the Humber community.

As part of that investment, a new Stratasys Fortus 900 printer was purchased and will soon be making its way into the Javelin Additive Manufacturing Lab.

This versatile printer will provide FAST faculty and staff the opportunity to produce robust production parts, large jigs and fixtures, and functional prototypes.

Learn more about the [Stratasys Fortus 900](#).



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FACULTY OF APPLIED SCIENCES & TECHNOLOGY

UPCOMING EVENTS

Monday February 21

Public Holiday - Family Day - Campus is closed





February 28 - March 4

Reading week - Campus is open. No classes.



WE WANT TO HEAR FROM YOU!

FAST NEWS recognizes and celebrates the achievements of our faculty and students. To share your successes with us, please submit stories and images to the Office of the Senior Dean, Julie Pasquin: julie.pasquin@humber.ca

-  [@HumberAppTech](https://twitter.com/HumberAppTech)
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Julie Pasquin
Office of the Senior Dean