HUMBER

Faculty of Applied Sciences & Technology

FAST TIMES JUNE 2023

Dear Colleagues,

Milestones are life's road markers. They include triumphant moments, the celebration of achievements and the moment when one door closes and another one opens.

After years of service and dedication to post-secondary education and respected industries, seven FAST members, including myself, are retiring this summer. I like to think retirement is a new adventure in living. It's not the end but rather a new beginning.

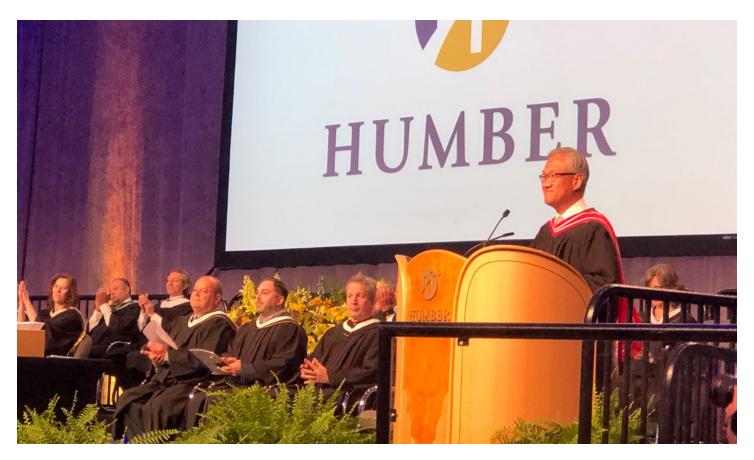
As I read through the tributes to six faculty members who are retiring this summer, I have great respect for all their years of dedication and services to Humber students and our community. Faculty members are the backbone of what Humber does and who Humber is, as a polytechnique post-secondary educational institution. I encourage you to read their tributes.

As I reflect on my own retirement, I have so much to be thankful for and so many people to thank. I truly enjoyed my last 5 years at Humber as the Associate Dean of Information and Communications Technology (ICT) within FAST. It is indeed the icing on top of my 35 years of a satisfying and rewarding career.

Continue reading on next page.







It was my great pleasure and honour to work with faculty members (FT/PT/PL), staff, and technologists of the ICT cluster, the FAST Admin Team, PSO's, schedulers and the entire FAST community. I am truly grateful for collaborating with so many like-minded professionals. I will forever cherish our time together.

This special issue is full of tributes of retiring faculty members and many more compelling FAST stories including about our award-winning students who brought home seven awards from a variety of competitions. We have a lot to celebrate!

As we commemorate the Class of 2023, let me take this opportunity to say – thank you! Our contributions to postsecondary education are making a difference in the lives of our students. Whether you are retiring, starting your summer vacation, continuing to deliver curriculum for our students this academic term or starting a new career, I encourage you to take a moment, look back at how far we've come and the exciting journey ahead, as well as how grateful we are to be in this rewarding profession.

It has been an absolute pleasure and privilege to serve the FAST community at Humber College. While I am sad to leave, I am ready for what the next phase of my life can offer me and my family.

May this summer award all of us warm sunny days, quality time with our loved ones and exciting new chapters.

Warm regards, Jonathan Kim, Ph.D. P. Eng. Associate Dean



CELEBRATING THE CLASS OF 2023

Convocation commemorates the culmination of our students' academic journey & the gateway to new beginnings as the next generation of leaders.

We took great pride in welcoming the Humber FAST Class of 2023 at our Spring Convocation on June 15 & 16. More than 1,130 FAST students from 60+ programs graced the stage to become career-ready graduates.

Congratulations to the next generation of engineers, designers, journey people, makers and technology leaders of tomorrow!





























Thank you to all the FAST faculty, staff and administrators who worked so hard behind-the-scenes to help deliver a memorable celebration for the FAST Class of 2023!







HUMBER PROFESSOR EARNS MASTER OF EDUCATION

Humber FAST students were not the only ones celebrating their convocation and joining the Class of 2023!

Congratulations to Professor Randy Gallant for earning his Master of Education in Leadership and Learning with a focus on Inclusion from the University of PEI!

Completed mostly during his sabbatical with a combination of online and in person classes, this experience was extra special for Randy as his family originated from PEI and he owns a cottage on the island.

"The program was very enlightening. I learned much from the experiences of my classmates who were mostly teachers from the elementary level. I realized how different our environments truly are."



AWARD-WINNING FAST LEARNERS

FAST INDUSTRIAL DESIGN STUDENTS BRING HOME FIVE ACIDO ROCKET DESIGN AWARDS

We are proud to announce three Humber FAST Industrial Design students brought home five awards from the Association of Chartered Industrial Designers of Ontario (ACIDO) Rocket Show 2023 Design Awards including first place!

1st Place 2023 ROCKET Award sponsored by Cortex Design and Forest City Castings Health and Wellness Award sponsored by SHEPPiD The Agency Award sponsored by Fredicus Melissa Stocco, Rhythm Smart and gamified fitness equipment designed to inspire movement and exercise among seniors. interchangable weights 7, 5, 3 lbs weights store inside the bench base release button Fitness tambourine and dumbbell head charge in the base Haptic feedback lights, and music are used to create an rsive experience power button. power button twist & unlock Fitness tambourine creates resistance TPU non-slip grip en pushed on using eel coil ring inside dynamic **LED** lights Dumbbells snap together in the center to create a resistance stick. Neodymium magnets provide resistance and additional connection support. speakers in devices Speakers are inside the fitness devices and play part of the beat as users work through exercise challenges, encouraging them to continue. adjustable





Consumer Product Award sponsored by SWAVE STUDIOS

Harry Cotaras, ReCess

A tutoring pod designed for dyslexic children that delivers specialized education and multisensory learning.





Innovation Award sponsored by Canadian Tire Corporation

Anthony Grguric, ÄERUS

An avalanche survival kit for a heightened chance to endure an avalanche when exploring rough-cut terrain.



ÄERUS provides its user with a hightened chance to endure an avalanche when exploring roughcut terrain as an avalanche survival unit. Utilizing every opportunity to increase the chance of survival. ÄERUS allows the wearer to float along with the wave, curb common injuries, and seek attention from anyone nearby while staying safe and warm awaiting post-avalanche rescue.



Removable shovel head is packed in bag compartment Integrated bag harness combats slippage and irritability

Xerogel insulation retains user body heat

Inflation and breathing apparatus allows for multi-directional air supply or direct pressurized inflation. Twist to breath and slap to inflate.

S.O.S button allows signal to be sent to local first responders, "amber alert" styled notification is dispersed in local area

Airbag system sewn ensures user floats on top of avalanche with head, arms and torso supported aloft

Reflective material allows for high visibility during normal wear and search and rescue efforts. Easily identifiable in sunlight, moonlight, and artificial light







The ACIDO Rocket Awards is an annual competition for Ontario's graduating industrial designers. Graduates nominated at the top of their class from Humber College, Carleton University, OCAD University, and Sheridan College have the opportunity to pitch their final year thesis projects to a jury of select industry professionals with the top winners announced at the annual Rocket Awards Ceremony.

It takes a village to help our students prepare for this competition and we greatly appreciate all of the coaches, educators, staff and faculty who helped 12 graduating students prepare and compete in this prestigious awards competition. Visit this link for more information on the ACIDO Rocket 2023 Design Awards.



MECHATRONICS STUDENTS BRING HOME GOLD FROM SKILLS CANADA

Humber FAST students, Paxton Coghlin & Dillon Kong, put their skills to the test at the Skills Canada National Competition in Winnipeg and earned the gold medal in Mechatronics! As a result of their golden finish, Paxton & Dillon advanced to compete in the World Skills Lyon 2024 competition!

We are also incredibly proud of Ashley Nollner (Automation & Controls) and Adrian Presot (Cabinetmaking) for placing 4th in the national competition.

It is an incredible honour to represent Team Ontario and participate in this annual event. Congratulations to all our FAST students who participated in this year's Skills Ontario & Skills Canada Competition.



Sincere gratitude to all the coaches, educators, staff, mentors, and faculty who helped and supported our students this year.





BRAMPTON'S OFF-GRID FOOD SHED EARNS PEO AWARD

Congratulations to Professor Phil Fung and two Humber SEBT students who participated in the design and installation of the City of Brampton's Off-Grid Food Shed that has earned a second-place finish for Research Project of the Year Award from the Professional Engineers Ontario York Region!

The Off-Grid Net Zero Energy Food Shed combines cutting edge engineering design with organic agricultural methods to grow healthy nutrition-balanced local food and provide food sovereignty to communities. This innovative indoor vertical farm contains its own ecosystems – energy, food, and waste – and growing systems - soil-based, hydroponics, and aquaponics. The Shed is zero-waste and energy positive - powered by solar PV, and it is built to face harsh winters using Passive House Design Methodology.

This project contributes to five UN Sustainable Development Goals: Zero Hunger, Good Health and Well-Being, Quality Education, Industry, Innovation and Infrastructure, and Sustainable Cities and Communities. The project also delivers the following ecosystem services: Food, Purification (air), Nutrient Cycling, Education and Knowledge, Spiritual and Religious Inspiration, and Relaxation and Psychological Well-being.

Visit this link for more information on the Off-Grid Food Shed.





GRADUATING INDUSTRIAL DESIGN STUDENT REFLECTS ON COLLABORATIVE APPROACH TO PRODUCE THESIS PROJECT

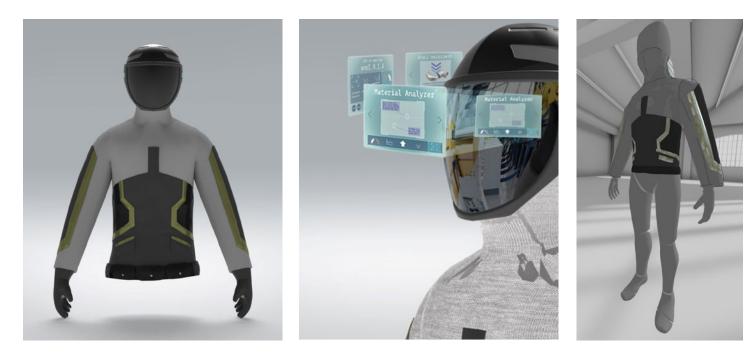
A'shantee Spencer is a fourth-year Industrial Design student who used emerging technology to produce her final thesis project. A'shantee's project, A.I.R. - AR Respirator Suit for Iron Workers, won the 3rd place Materials & Methods Award, sponsored by Nienkamper International Inc. She was also one of 12 Industrial Design students shortlisted from this year's Humber Bachelor of Industrial Design year four cohort to present her project at this year's ACIDO Rocket Show 2023.



As a fourth-year industrial design student, I am always eager to discover new tools and creative assets that can propel my design process. So when the opportunity came to design in Gravity Sketch, I was thrilled by how creative, fun and immersive everything became!

With the collaboration of David Neumann and Christian Loria, I was given the opportunity to design in Gravity Sketch through Humber College's Media department Oculus VR Loan program. I was able to use the VR tool of Gravity Sketch towards the ideation, conceptualization and design finalization of my thesis project, where it provided a fast and efficient design process.

With the insightful guidance of David Neumann and Christian Loria, I learned that designing in VR promotes creativity and accuracy. Overall, the design process of my thesis project was immersive, engaging and successful because I was able to interact with my design.



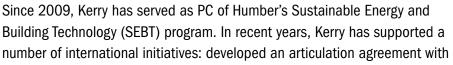


FAST RETIREES

A COUNTDOWN TO FAREWELL AND NEW BEGINNINGS

KERRY JOHNSTON

After graduating from Humber's Survey Technology program and earning his Ontario Land Surveyor commission, Kerry joined Humber as a contract faculty member in 1995, teaching in Architectural Technology, Civil Engineering Technology and Environmental Technology. He joined the full-time faculty ranks in 1998, serving as PC of Civil and Environmental Technology programs. Between 1999 and 2013, Kerry earned a B.Ed. from Brock University, and M.A. Ed. and Ed. S. degrees from Central Michigan University with research interests targeting how sustainability and systems thinking might support improved student learning and critical thinking.



Parul University in Gujarat, India; was a SME and curriculum specialist on Humber IDI's Kenya Education for Employment Program (KEFEP) to support Kenyan polytechnics integrate competency based education and training for solar PV; was a faculty lead for student exchange with Dania Academy in Denmark; developed the Global Summer School course Optimizing High Performance Building Design with partner South West College, Northern Ireland; and was the faculty lead for student participation in Building a Sustainable Future conference hosted by South West College and the International Passive House Association. Most recently, Kerry's graduating SEBT students participated in a Collaborative Online International Learning (COIL) project focused on Sustainable Social Housing with partners VIA University College in Denmark, Howest University in Belgium and Avans University in the Netherlands.

Kerry has been a member of the Humber student, alumni and faculty communities during the tenure of every president.



FAST TIMES



LEON KING

Over the last four decades, Professor Leon King, a founding faculty member of the Computer Engineering program, has designed and taught over 35 unique and varied courses related to programing and software design with a focus on Unix, APIs, networks and on platform independent code. Among his many firsts, he was the first at Humber to teach C, C++, Java, Client/Server, and Gui programming. He was also the first to teach HTML, JavaScript, User Interface Design, VMS, Macintosh and Windows Systems programming. For several years he was Chair of the Technology Division's Computer Advisory Committee which shepherded the widespread use of PCs into the School.



He has fond memories of the collegial atmosphere here at Humber, and of working with some of the best educators, librarians, technicians and administrators who stood as shining examples of student focused innovators who truly cared about fostering a learning environment where faculty could collaborate, consult, review, and shape the curriculum in an integrated fashion. These individuals include Mike Lake, Alfred and Chun Shin, David Lloyd, Ken Baker, Paul Michaud, Wayne Debly, Laurie Cragg, Mike Crompton, Kristian Medri, Mihyar Hesson, Paul Mogach, Austin Tian, Alaa Salih, Bill Wright, Jeremy Brooks, Mohammed Khan, Benann Thiruthuvanathan, Ruth McLean, Lynne Bentley, Kelly Gray, Kathy Warren, Tanya Goncalves, Bob Nash, Hugh Chesser and Vincent Shaikh. It was a privilege for Leon to have known and worked with each of them.

On retirement he hopes to resume his education blog, <u>https://metacurricularknowledge.blogspot.com</u>, work on completing a couple of books, dabble in AR/VR programming, swim, bike, cook, read and reengage in reviving a social life that tended to lag during the school year.



PAMELA MAYHEW

After more than 15 years at Humber College, Pamela Mayhew has decided to retire, effective August 31, 2023.

Since 2008, Pamela has been a treasured faculty and team member in the Interior Decorating program. In 2009, she became a full-time faculty member. With an educational background in Art History, Interior Design, and Art Education, Pamela had a successful prior career as a practicing Interior Designer and Decorator, running her own design studio specializing in highend residential design. Pamela is also an accomplished and dedicated artist, painting as often as possible in 'plein air'. She brought all this knowledge and skill to her role at Humber and has been an exceptional asset to our faculty.



During her time at Humber, Pamela has inspired and engaged her colleagues and students with her creativity, energy, and great depth of knowledge. An advocate of active learning (and having fun!), she has been known to break out the art supplies at a moment's notice to enliven a classroom. She has also led students on countless fieldtrips, from walking tours of Toronto neighbourhoods to international trips abroad including New York and Berlin.

Pam encourages a collaborative learning environment and practices a "flipped classroom" format in which each student is asked to add knowledge to the overall classroom learning experience. This makes the learner feel responsible for providing something to the overall class community. During the pandemic, Pam filmed an introduction to a residential finishes course while she was outdoors, immersed in nature, and described materials in their natural settings.

While Pamela will be greatly missed by her Humber friends and colleagues, we wish her all the best for the exciting journey ahead, which will include plenty of painting and pickle ball!

FAST TIMES



RICHARD "RICK" SNOWDON

25 years ago Richard (Rick) Snowdon joined the Humber College apprenticeship training department and so began the start of the legend....

In the 1990's Humber College was looking to reboot their plumbing program and decided to bring in a young plumbing instructor who had already been teaching for a few years for other colleges. It was proving to be a challenge to attract new students but when the plumbing union learned that Rick Snowdon would be teaching for Humber College, they immediately agreed to send some of their members for training – Rick Snowdon's reputation had already made an impression – and the rest, as they say, is history.



Through his 25 years with Humber College, Rick Snowdon has left his mark on every aspect of the plumbing apprentice training field. As an in-class teacher, Rick has trained literally thousands of apprentices – and in many cases he has taught multi-generations of plumbers starting with fathers and then their sons.

Rick's success was not only in the classroom – his training and coaching of apprentices resulted in numerous successes at the Skills Ontario/Canada competitions. Humber apprentices won bronze, silver, and multiple gold medals because of the skills and passion that Rick was able to pass along to his student-competitors whose triumphs only added to their own successful careers in plumbing.

Rick's knowledge and interpretation of plumbing standards, codes, and by-laws made him an incredible resource when it came to the development of workbooks and plumbing curriculum materials over the years. He was a part of many industry and education committees, and he helped shape the course of plumbing apprentice training.

And finally, as a mentor to young instructors, they could find no one better than Rick Snowdon. His patience, understanding, and passion helped them become successful instructors who, together with Rick, built the Humber College plumbing apprentice department into the success it has become today.

Rick Snowdon will be greatly missed at Humber College. Rick and his legacy will forever be remembered by his many friends and colleagues.

FAST TIMES



YURI SURA

As both a professor and a program coordinator, Yuri Sura has mentored and guided many students throughout his 37 years at Humber College. Under his leadership, many have carved out successful careers in private practice and academia including our current program coordinator, Michael Guido.

Yuri has led a team of professors who have guided many successive capstone students to provincial success in the OAAAS provincially juried annual competition that has seen our students consistently place in first and second place in Ontario.

Yuri holds a Bachelor of Architecture and a Bachelor of Arts in English Literature from the University of Toronto. He is an associate of the Ontario College of Art where he received his diploma in painting and is a member of the Ontario Association of Architects and the Royal Architectural Institute of Canada.



Over the years, Yuri has spent time writing, painting, sculpting, owning a private architecture business and teaching as a professor & program coordinator in the Architectural Technology Program.

He is the author of "Collections Poetry" and "Bay & King" with original paintings by Yuri that draw out impressionism and symbolism, tied to his work in sculpting and writing as well as architecture. Together this forms the notion of purity in geometric form, paralleling the purity of life experiences as they are unfolding in that moment. Together the reader will be held through this encapsulating narrative.

He is a proud husband and father of two children. We will miss his curiosity and quest for always enhancing our Architectural Technology Program that he was so proud to represent over many years.



BILL WRIGHT

Bill Wright is retiring after 31 years of teaching. He started teaching in the Computer Programmer program that was part of the School of Business. After 5 years of partial load and sessional contracts, Bill became a fulltime faculty member. At this time, he became part of the newly formed School of Information Technology and Accounting (SITA). During this time in SITA, he reshaped the database curriculum. Oracle was introduced as the teaching database and Humber became part of the Oracle Workforce program and offered Oracle certification programs. Bill initiated and built the Humber legacy as an Oracle Workforce partner and an Oracle Academy partner. He brought Oracle Database technology into Humber's programs and curriculum which benefited students and enhanced their employability.



The next move was moving Computer Programming to the Media School. During this time, a complete database profile was created and became part of the ESDV and ITS programs. To complement the Oracle database courses, SQL Server courses were added to provide other database opportunities.

Bill has supported both faculty and students by maintaining an Oracle database server for their use. When Humber introduced its cloud server, Bill was the first to utilize this environment by creating virtual environments to support the database courses used by students, to support faculty teaching these courses, and to support students learning various database technologies.

In 2007, Bill was presented with the Distinguished Faculty Award and the NISOD Teaching Excellence medal. Bill also served on the Academic Council for one term.

Bill has left his legacy on the database programs offered by Humber. The passion he has for teaching and the support he provides for the many faculty and students that use the database will be missed. We extend our best wishes and wish him well. Bill's last day at Humber is June 30th.





FAST & CENTRAL CPL SECURES 100K TO CREATE HUMBER'S FIRST C2R2 MICRO-CREDENTIAL

The Canadian Colleges for a Resilient Recovery (C2R2) fund is designed to provide Colleges the opportunity to develop Micro-Credentials (MC) that support employability in the sustainable sector space.

A joint effort between FAST Continuous Professional Learning (CPL) & Central CPL, along with the content expertise of the Advanced Manufacturing Cluster, led by Dr. Shaun Ghafari, resulted in Humber successfully earning it's first C2R2 grant.

Called Microgrid Application and Control, the program is designed after adult learning principles. The first part of the MC involves a self-directed learning component that learners must first complete. This component ensures the learner is ready to come to Humber's new Sustainable Microgrid and Renewable Technology (SMART) Lab and practice what they learn in the lab itself.

The first cohort is scheduled to start Fall 2023. This will be the first of many micro-credentials in the Microgrid space. Special thanks to Dr. Kimberly Carter and Sara Marques from CPL Central for their collaboration!



AWS SPEEDS INTO HUMBER COLLEGE TO HOST DEEPRACER COMPETITION

What a day full of fun and excitement, at the first annual Humber AWS DeepRacer Competition on Wednesday, April 26th!

The AWS DeepRacer competition is the world's fully autonomous racing league with a 1/18th scale race car driven by machine learning (ML) algorithm.

Humber College's partnership with AWS (Amazon Web Services) provides an opportunity to integrate curriculum



in a fun, learning environment for our Humber FAST students where they can apply their critical thinking & advanced machine learning skills.

Congratulations to all members of the Humber AWS DeepRacer Students Club and the following winning teams:

Evolve ML: Andre Piper, Bhupinder Virdi, Saumya Mehta, Siddhartha Choudhary

Team First: Terry Lay, Ruoyu Zhu, Pin-Hung Liao

Lead Squad: Anushka Sharma, Sahil Solanki

Much appreciation goes to Dr. Mihai Albu, the faculty advisor for the club, who mentored and coached the teams. Ladies and gentlemen, start your engine and programming for next year!









WOODWORKING TEAM BUILDS FOUNDATION FOR A SPECIAL FAREWELL GIFT FOR TELEVISION HOST MARILYN DENIS

Our FAST woodworking team was commissioned to build the foundation for a very special gift for Marilyn Denis who helped lay the foundation for daytime TV in Canada.

Canada's 'Queen of Daytime' chose to conclude "The Marilyn Denis Show" following her 34-year TV career and 13 seasons & 2,423 episodes of "The Marilyn Denis Show."

The Bell Media production team presented Marilyn with a commemorative brick from the studio where Marilyn hosted two different daytime television shows during her 34-year legacy.

Congratulations Marilyn and we wish you exciting new adventures!







FAST PUBLISHERS

PROFESSOR PHIL FUNG PUBLISHES PAPER TO SUPPORT REGENERATIVE DESIGN WORK

Congratulations to Professor Phil Fung who, together with his colleagues from McMaster University, has published "Synthetic ecosystems: an emerging opportunity for science and society?"

This paper is the scientific foundation for his regenerative design work and highlights that with advancing technology and global movement of species, modification has shifted to designing and creating new ecologies in cityscapes, building interiors, agricultural settings and more.

Visit this link to read more.

PROFESSOR GEORGE LIVANOS AUTHORS PAPER TO SUPPORT REGENERATIVE DESIGN WORK

Congratulations to Professor George Livanos who, together with his colleague, has published "Development of an Ultra-Long-Range Wireless Backhaul Solution Using ATSC 3.0."

This paper will also be published in the June Issue of the IEEE Transactions on Broadcasting. IEEE is the world's largest technical professional organization dedicated to advancing technology for the benefit of humanity.

To read this paper at IEEE Xplore, visit <u>this website</u>, click the PDF button, enter Humber College as the organization, and log in using your Humber credentials.







HUMBER FAST'S SUSTAINABLE ENERGY AND BUILDING TECHNOLOGY GRADUATES DELIVERING A CARBON CONSCIOUS WORLD

Humber College graduates are newly discovered gems who bring a wealth of benefits, potential, and fresh new ideas to companies who are recruiting the next generation of change makers.

Ecovert knows the Humber difference and is tapping into career-ready graduates to unlock their full potential and provide them with the opportunity to bring new approaches to sustainable and carbon conscious buildings.

A full-service sustainability consulting firm committed to creating environmental, economic, and social synergies for the real estate sector, the company has hired seven Humber College students in the past five years from FAST's Sustainable Energy and Building Technology (SEBT) advanced diploma program. These graduates are bringing high demand industry leading skills to deliver a carbon conscious build.

Visit this link to read the full story that features Humber FAST SEBT alumni Connor Humphreys and Chad Thurlow.

"When I first started out. I saw the trend of sustainability becoming more of an important part of the building industry. Pursuing a career in sustainable energy and building technology is an excellent opportunity to get in at the ground level of an emerging sector."



Connor Humphreys



"As the need for sustainability targets grow, I think we're going to start seeing projects led by the sustainability team."



Chad Thurlow





FAST MILESTONES

Congratulations to the following FAST members who are celebrating a Career Milestone in June! We truly appreciate your contributions to the Humber FAST community and congratulate you on reaching this important milestone!

20 years Eric Ilano 1 year

Scott Brewster

UPCOMING EVENTS

JUNE 26-30 Summer Reading Week Campus is open

JULY 12 Skilled Trades Career Fair Carrier Drive, 1 – 5 PM

JULY 1 Canada Day Campus is closed on Friday, June 30 and Monday, July 3

AUGUST 7 Civic Holiday Campus is closed AUGUST 11 ICT Capstone Project Expo CTI 108, 1 - 5 PM

AUGUST 28 - SEPTEMBER 1 **Orientation Week** Welcome Back FAST Faculty Meeting

SEPTEMBER 4 Labour Day Campus is closed



WE WANT TO HEAR FROM YOU!

FAST TIMES 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

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