

FACULTY OF SCIENCE NEWSLETTER

Monthly newsletter sharing extraordinary work within the Faculty of Science

"April showers bring May flowers". – Chris Cleave

The Animal Health Department appreciates how everyone supported their program this year and would like to send a huge shout out to Dr. Greg Anderson, the Dean of Science, for dropping off his puppy, Willow, for the students to love and learn from.



Highlights from the Department of Engineering

As of March 2021 Drs. Hashim Mohamed & Omer Waqar are now registered with EGBC - Engineers & Geoscientists British Columbia, as Professional Engineers. These achievements will support to the upcoming accreditation process.

Dr. Hashim Mohamed's paper titled, "A Geometric Nonlinear Stochastic Filter for Simultaneous Localization and Mapping," has been published in Aerospace Science and Technology, March 2021 edition.

Dr. Omer Waqar's 2021 journal publications, available online, are listed below:

Omer Waqar, Muhammad Asim Ali, Mahrukh Liaqat, Ayesha Iqbal, "On the ergodic capacities of decode-and-forward MIMO relay network with simultaneous wireless information and power transfer", Transactions on Emerging Telecommunications Technologies, Wiley, Vol. 32, issue. No 1, January 2021.

Geetanjali Rathee, Razi Iqbal, Omer Waqar, Ali Kashif Bashir, "On the Design and Implementation of a Blockchain Enabled E-Voting Application Within IoT-Oriented Smart Cities", IEEE Access, Vol. 9, February 2021.

On the Engineering recruitment front, every Wednesday in January and February, high school students participated in Dr. Hanif's presentation on a "Smart Garage Parking Assistant." Dr. Hanif's virtual presentation explained

different functions and programs a Software Engineer will work with in order to make today's world a better tomorrow.



**Virtual Info Session
for Prospective Students**

THOMPSON RIVERS UNIVERSITY

"We help students create their own path with a career in Software Engineering!"

**TRU Bachelor of Engineering
in Software Engineering**

Presented by
Kammi Madsen
Engineering Advisor
"Software Engineering Program at TRU"
Dr. Muhammad Hanif
Assistant Professor
"Smart Garage Parking Assistant"

When 5 PM, Every Wednesday in Jan & Feb, 2021
Where MS Teams Platform
(The link will be shared once you email us!)

Please email us for the session link! - enrg@tru.ca
Visit our website to explore more! - tru.ca/se

New Requirements!
Physics II
Chemistry II

Students learned an example of how embedded systems such as a microcontroller, sensors, and actuators work together to create a parking assistant product. Dr. Hanif emphasized no previous knowledge of any of these systems are required and the demonstration is an example of what will be taught in the BEng in Software Engineering Program. Kammi Madsen, Engineering Advisor and Accreditation Coordinator, joined Dr. Hanif to present the BEng in Software Engineering Program and answer any student questions.

Faculty Success & Recognition



Kingsley Donkor, (Chemistry) has been recognized for his outstanding teaching, research and service as the recipient of the 2021 President's Distinguished Scholar Award.

Darryl Carlyle-Moses, (Graduate Faculty) received the 2021 Excellence in Research and Scholarship Award.

Faculty within the Faculty of Science were successful in obtaining nine Internal Research Fund and Five Research Accelerate Grants.

The department formed a working committee to revise the Academic Standards for Promotion and Tenure in the Faculty of Science. Lyn Baldwin, Rick Brewster, Brian Heise, Mike Lemphers, Mindy Marshall, Mark Paetkau, Musfiq Rahman, Heather Shannon and Catherine Tartarnik, who were joined by Greg Anderson and Faheem Ahmed, stepped up to the plate to represent their departments on the committee.

This committee did great work, revising and updating the standards to incorporate TRU's vision for an inclusive and diverse university. In addition, each department wrote and submitted a 1-page supplement to the overarching document, which provides context for external reviewers.