The Institution of Engineers, Malaysia

The Agricultural and Food Engineering Technical Division, AFETD IEM Presents

Webinar Talk on Precision Agriculture and Sensor Systems Engineering

27th May 2025, Wednesday

10am - 12noon

Zoom - Virtual Platform

Speaker

Dr Viacheslav I. Adamchuk

BEM Approved CPD/PDP Hours: 2
Ref No: IEM25/HQ/155/T (w)

To register kindly log on www.myiem.org.my

IEM Students: Free
IEM Members: RM15 (Online)
Non-IEM Members: RM70

Synopsis

The presentation will provide an overview of McGill University's Bioresource Engineering academic programs, followed by a discussion on several recent research projects in precision agriculture and sensor systems. Specifically, we will discuss the role of decision support tools and site-specific crop management being enhanced by an array of proximal sensor systems. Special attention will be given to newly developed sensor systems assessing soil health.

Speakers Profile

Originally from Kyiv, Ukraine, Dr. Adamchuk earned his mechanical engineering (agricultural mechanization) degree from the National Agricultural University of Ukraine (now the National University of Life and Environmental Sciences of Ukraine) in his hometown back in 1996. Later, he pursued his MS (1998) and PhD (2000) in Agricultural and Biological Engineering from Purdue University in the United States. In 2000, Dr. Adamchuk's academic career began as a faculty member and precision agriculture engineer in the Department of Biological Systems Engineering at the University of Nebraska-Lincoln (UNL). In 2010, he moved to Canada to further his academic endeavors in the Department of Bioresource Engineering at McGill University while maintaining an Adjunct Professor position at UNL. Since 2018, he has served as the Chair of the Bioresource Engineering Department. He is a founding member and past secretary of the International Society of Precision Agriculture. At the forefront of his research, Dr. Adamchuk leads the Precision Agriculture and Sensor Systems (PASS) research team. This team is dedicated to developing and deploying soil and plant sensing technologies, geospatial data acquisition and processing, and the practical application and implementation of precision agriculture. The mission is to contribute to ensuring sustainable food production worldwide.