

National Biotechnology Week Wednesday October 1, 2014 “Biotechnology: Innovations in Imaging”

Davis Centre, Rooms 1302 and 1301
University of Waterloo, 200 University Avenue West, Waterloo, Ontario

The Centre for Bioengineering and Biotechnology will be celebrating National Biotechnology Week from September 29-October 1. Our goal is to highlight and increase the awareness of work that is being conducted in biotechnology through a panel discussion, faculty and industry representative talks, and presentations showcasing graduate student work.

AGENDA

Room DC 1302

9:30 Welcome & Opening Remarks Catherine Burns, Director of CBB, University of Waterloo

9:35

Innovations in Imaging

Réda Fayek, CEO, Huron Technologies

9:50 5 minute CBB researcher presentation synopsis

Biomedical applications of ultrahigh resolution optical coherence tomography
Kostadinka Bizheva, Physics and Astronomy, University of Waterloo

Medical Imaging: Pixels, Consensus and Learning
Hamid Tizhoosh, Systems Design Engineering, University of Waterloo

Optics of the Eye as a Window on the Brain
Melanie Campbell, Physics and Astronomy, University of Waterloo

Scanning probe microscopy in biomedical research
Zoya Leonenko, Physics and Astronomy, University of Waterloo

Integrative systems for biomedical imaging and analysis
Alex Wong, Systems Design Engineering, University of Waterloo

UW Shared Microscopy Facilities and Joint Discussion of UW Research Imaging Needs
David Spafford, Biology, University of Waterloo & Carl Zeiss Canada

Room DC 1301 (fishbowl)

11:00 Open Showcase - Posters, Demos, and Networking Reception with light refreshments

Robotic Ultrasound with RF Signal Acquisition on the International Space Station (ISS)
Implantable Neural Interfacing Platforms

Medical Imaging based on Optical Coherence Tomography

Sensitivity and Specificity of Fluorescence and Polarimetry of the Retina in Alzheimer's Disease

Kelvin Probe Force Microscopy Reveals Electrostatic Properties of Interactions of DNA and Gemini Surfactant-Lipid Monolayers

Hybrid Amorphous-selenium/CMOS Direct-detection X-ray Imager with 6- μ m Pixel Pitch

12:00 Close

No charge to attend but registration is required as seating is limited.

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Directions and Map (uwaterloo.ca/map)



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