MPU SEMINAR SERIES: 2022-2023

Fall 2022

September 02: Academic, clinical, radiation safety faculty (MPU, McGill U / MUHC)
   Academic, clinical & radiation safety overview

September 09: Academic Principal Investigators (Medical Physics, MUHC / Radiation Oncology, SMBD-JGH)
   Medical Physics & Radiation Oncology research projects overview

September 23: TheranostiCentre Srl Group (ENEA Research Centre, Brasimone, Italy)
   The Compact Neutron Generator (CNG) and the LINC-ER project for the treatment of stage I & II solid cancers

October 21: Brandon Xia (Bioengineering, McGill University, Montreal, Quebec)
   Multiscale modeling of biomolecular networks

November 04: André Diamant (CEO, Gray Solutions, Montreal, Quebec)
   From academia to entrepreneurship with some ramblings along the way

November 11: Dimitre Hristov (Dept Radiation Oncology, Stanford University, Stanford, California)
   Multiscale modeling of biomolecular networks

November 18: Claire Cohalan (Physics & Biomedical Engineering, CHUM, Montreal, Quebec)
   Theranostics in nuclear medicine

December 02: Sangkyu Lee (Medical Physics, Memorial Sloan Kettering Cancer Center, New York, New York)
   Radiogenomics: Predicting & understanding normal tissue complication with genomics & machine learning

December 09: Ravi Menon (Medical Biophysics & Medical Imaging, Robarts Research Institute, University of Western Ontario, London, Ontario)
   Random walks: A journey from physics to functional brain imaging

December 16: Mikaël Simard (Engineering Sciences, University College London, London, UK)
   A year of experiences in University College London – From proton imaging for lung cancer to applying artificial intelligence in digital pathology for sarcomas
January 13: Martin Vallières (Computer Science, University Sherbrooke, Sherbrooke, Quebec)
An academic journey from Medical Physics to AI4Health: From diving to surfing research, and back again

January 20: Robert Weersink (Techna Institute, UHN / Radiation Oncology - Medical Biophysics - Institute of Biomedical Engineering, University of Toronto, Toronto, Ont)
Volumetric optical imaging for imaged guided therapies

February 10: Tim Szczykutowicz (Radiology – Medical Physics – Biomedical Engineering, University of Wisconsin, Madison, Wisconsin)
Deep learning image reconstruction: Compared and contrasted with FBP and IR

February 17: Susannah Hickling (Radiotherapy Physics, CancerCare Manitoba, Winnipeg, Manitoba)
Treatment of ocular sites with a gantry-based spot scanning proton system

March 17: Michael Evans (Medical Physics, MUHC, Montreal, Quebec)
Clinical medical physics: Random opportunities and lucy chances

March 31: Monique Mayer (Small Animal Clinical Sciences, University of Saskatchewan, Saskatoon, Saskatchewan)
Comparative oncology: How veterinary radiation oncology can benefit both animal and human cancer patients

April 14: Avery Berman (Physics, Carleton University / University of Ottawa Institute of Mental Health Research, Ottawa, Ontario)
Imaging brain function with improved physiological and spatial specificity using MRI

April 21: Ruth Wilkins (Ionizing Radiation Health Science Division, Consumer & Clinical Radiation Protection Bureau, Health Canada, Ottawa, Ontario)
Biodosimetry at Health Canada

May 26: Marc Chamberland (Medical Physics, University of Vermont Medical Center, Burlington, Vermont)
egs_brachy and the CLRP Monte Carlo TG-43 parameter database

June 09: Haley Patrick (Medical Physics Unit, McGill University, Montreal, Quebec)
Everything you wanted to know about Residency applications

June 16: Nathaniel Lasry (Founder & CTO, IMD Research, Montreal, Quebec)
vcuff and the Internet of Medical Things