

MPU SEMINAR SERIES : 2017-2018

Fall 2017

September 01 : José M. Fernandez-Varea (Dept Physics, Univ Barcelona, Barcelona, Spain)

Ionization of the K and L shells of heavy atoms by electron impact

September 20 : Uulke van der Heide (Netherland Cancer Institute, Leiden, Netherlands)

Quantitative MRI for assessing response to radiation therapy

September 29 : Esther Bar & Arthur Lalonde (Dépt. Physique, Univ Montréal, Montréal, QC)

Quantitative MRI for assessing response to radiation therapy

October 06 : Richard Richardson & Fawaz Ali (Canadian Nuclear Laboratories, Chalk River, ON)

Assessment of ability of thermal neutrons to induce biological damage via characterization simulations of blood radiobiology irradiation at the National Research Universal Reactor

November 03 : Bryan Muir (National Research Council of Canada, Ottawa, ON)

Progress toward updating the TG-51 protocol for electron beam reference dosimetry

December 08 : Ives Levesque (Medical Physics, McGill University, Montréal, QC)

Fooling Fourier: Advances in fast magnetic resonance imaging

Winter 2018

January 12 : In Jung Kim (Pohang University of Science & Technology, Pohang, South Korea)

Graphite calorimetry at KRISS

Friday, January 19 : Nolan Hertel (Mechanical Engineering, Georgia Institute of Technology, Atlanta, GA)

Neutron spectroscopy with moderated detectors

Friday, January 26 : Shirin Enger (Medical Physics, Cedars Cancer Centre-MUHC Glen Site, Montréal, QC)

Applied innovations in Medical Physics

Friday, February 23 : David Rudko (McConnell Brain Imaging Ctr, Montreal Neurological Inst, Montréal, QC)

Quantitative imaging of tissue microstructure using high field MRI

Friday, March 16 : Frédéric Leblond (Génie Physique, Polytechnique de Montréal, Montréal, QC)

Platform technology for spectroscopic tissue identification in pathology and surgical oncology applications

Friday, April 13 : Dany Thériault, PhD

(Chief - Medical Physics, Centre Intégré de Santé et de Services Sociaux de Chaudière-Appalaches (CISSS-CA), Sainte-Marie, QC)

Presentation of the Centre Régional Intégré de Cancérologie (CRIC) project

Friday, April 27 : Stéphane Bedwani, PhD

(Physique médicale, CHUM / l'Université de Montréal, Montréal, QC)

Functional imaging of lung perfusion using dual-energy CT in radiation therapy

Friday, May 04 : Gassan Massarweh, PhD

(McConnell Brain Imaging Centre, Montreal Neurological Institute, Montréal, QC)

Cyclotron and radiochemistry at the McConnell Brain Imaging Centre

Friday, May 11 : Christine Tardif, PhD

(Montreal Neurological Institute / Biomedical Engineering, McGill University, Montréal, QC)

Magnetic resonance imaging of cortical myelin: Promises and pitfalls

Friday, June 01 : Ahmad Haidar, PhD

(Biomedical Engineering, McGill University, Montréal, QC)

The artificial pancreas for Type 1 diabetes: Feedback control and mathematical modeling

Friday, June 08 : Caroline Reinhold, MD

(Montreal Neurological Institute / McGill University, Montréal, QC)

Quantitative image analysis to predict clinical outcomes

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