

## MPU SEMINAR SERIES : 2012-2013

### Fall 2012-2013

**September 14 : R. Glenn Wells** (Cardiac PET Research, University of Ottawa Heart Inst., Ottawa, ON)  
*The physics of dose reduction in nuclear medicine*

**September 28 : Marco Carlone** (Princess Margaret Hospital / University of Toronto, Toronto, ON)  
*Integrated patient quality management*

**October 12 : Fernando Cardel** (RaySearch, Garden City, NY)  
*Multi-criteria optimization: A new paradigm for IMRT planning*

**October 19 : Malcolm McEwen** (National Research Council Canada, Ottawa, ON)  
*Determining the value of  $W/e$  in the radiotherapy energy range*

**November 02 : D. Louis Collins** (McConnell Brain Imaging Centre, Montreal Neurological Institute, Montreal, QC)  
*Recent progress in image-guided neurosurgery at the Montreal Neurological Institute*

**November 23 : Olivier Lesur** (CHUS-Université de Sherbrooke, Sherbrooke, QC)  
*In vivo endoscopic confocal fluorescence microscopy (ECFM) of the lung: Abyssal travel... for a virtual biopsy*

**December 14 : Gilbert Matte** (Pharmacy, McGill University Health Centre, Montreal, QC)  
*Physicists and the radioisotopes for clinical radiopharmaceutical: Production and concepts*

### Winter 2012-2013

**January 11 : Boris Kell** (Massachusetts General Hospital, Boston, MA)  
*Improving sensitivity and speed in MRI and its integration with radiation modalities*

**January 25 : Kavita Murthy** (Canadian Nuclear Safety Commission, Ottawa, ON)  
*How Finland regulates the use of ionizing radiation in medical facilities*

**February 08 : Yani Picard** (Canadian Nuclear Safety Commission, Ottawa, ON)  
*The life of a medical physicist at the public service of Canada*

**February 21 : Bryan Muir** (Carleton University, Ottawa, ON)  
*Measurements and Monte Carlo simulations for reference dosimetry of high-energy photon and electron beams*

**February 22 : Richard B. Richardson** (AECL, Chalk River, ON)  
*Are beta and alpha-emitting radionuclides effective treatments against leukemia stem cells and bone metastases?*

**March 22 : Various staff** (McGill University / McGill University Health Centre / Montreal Neurological Institute / SMBD-Jewish General Hospital, Montreal, QC)  
*Project presentations to M.Sc. students*

**April 05 : Gyorgy Hegyi** (McGill University Health Centre, Montreal, QC)  
*Current standing on CT dose optimization through different makes and user preferences*

**April 12 : Emilie Soisson** (McGill University Health Centre, Montreal, QC)  
*Uncertainties in lung SBRT*

**April 26 : Elahe Alizadeh** (Université de Sherbrooke, Sherbrooke, QC)  
*Low energy electronics and radiation damage to DNA: From fundamental processes to applications*

**Summer 2012-2013**

**June 21 : Magdalena Bazalova** (Stanford University, Stanford, CA)

*Should we treat cancer with very high electron beams?*

**July 05 : Patricia Lindsay** (University of Toronto / Princess Margaret Hospital, Toronto, ON)

*Development and applications of an image-guided small animal irradiation platform for translational research*

**July 10 : Patricia Lindsay** (University of Toronto / Princess Margaret Hospital, Toronto, ON)

*Development and applications of an image-guided small animal irradiation platform for translational research*