MPU SEMINAR SERIES: 2021-2022

Fall 2021

September 03: Academic, clinical, radiation safety faculty (MPU, McGill U / MUHC)
   Academic, clinical & radiation safety overview

September 10: Academic Principal Investigators (Medical Physics, MUHC / Radiation Oncology, SMBD-JGH)
   Medical Physics & Radiation Oncology research projects overview

October 01: James Renaud (Ionizing Radiation Standards, National Research Council, Ottawa, Ontario)
   Establishing a primary radioactive gas standard in Canada: Length-compensated internal gas counting

October 08: Mark Lubberink (Uppsala University, Uppsala, Sweden)
   Clinical implementation of quantitative PET methods

October 15: Mirta Dumancic (Ben Gurion University of the Negev, Beer-Sheva, Israel)
   A new DaRT game: Modeling and parameter measurements in Diffusing Alpha-emitters Radiation Therapy

October 22: Aimee McNamara (Harvard Medical School & Massachusetts General Hospital, Boston, Mass.)
   Towards full mechanistic modeling of the response of tissue to radiation

November 05: Cheryl Duzenli (Medical Physics, BC Cancer, Vancouver, British Columbia)
   Developing of a carbon-fibre breast positioning/support device to reduce toxicity in breast radiotherapy

November 12: Antonia Dimitrakopoulos-Strauss (Director – PET-CT Unit, Deputy Head Clinical Cooperation
   Unit Nuclear Medicine, German Cancer Research Centre [DKFZ], Heidelberg, Germany)
   Immunotherapy monitoring with PET-CT in cancer patients

December 10: Julia Publicover (Quantitative Imaging for Personalized Cancer Medicine [QIPCM], Techna
   Institute, University Health Network, Toronto, Ontario)
   UHN molecular imaging & theranostics pipeline
   Ivan Leung (Associate Head, Department of Medical Physics, Princess Margaret Hospital, Toronto, Ontario)
   Multi-centre phantom study in reproducibility of PET radiomic features

December 17: Sarah McKenney (Diagnostic Medical Physics, Stanford University / Lead Physicist,
   Lucile Packard Children’s Hospital Stanford, Palo Alto, California)
   Multi-institution consensus for portable chest radiographs through glass barriers
Winter 2022

January 07 : **Rebecca Howell** (U Texas M.D. Anderson Cancer Centre, Houston, Texas)
   *Treatment-related cardiovascular disease in childhood cancer survivors*

January 14 : **Allison Toltz** (U College London Hospitals NHS Foundation Trust, London, United Kingdom)
   *A sweet ride on the clinical train: Commissioning a proton therapy center*

January 21 : **Various faculty** (MPU, McGill U / MUHC)
   *MSc projects pitch to first-year students*

February 04 : **Jeremy Hoisak** (Radiation Medicine & Applied Sciences, University of California-San Diego, San Diego, California)
   *Current clinical practice and future development in surface-guided radiation therapy*

February 11 : **Christopher Rowley** (Montreal Neurological Institute, Montreal, Quebec)
   *Intracortical MR signal as a marker for microstructural changes*

February 18 : **Marlene Kontcho** (Chalk River Nuclear Laboratories, Chalk River, Ontario)
   *Investigating the Oxygen Effect on the Irradiation of Lens Epithelial Cells: Role in Cataract Formation*

March 18 : **Richard Richardson** (Chalk River Nuclear Laboratories, Chalk River, Ontario)
   *The Uniqueness of the Multistage-senescence Model of Carcinogenesis and its Potential Application to Radiation-induced Cancers*

April 01 : **Kyle O’Grady** (Memorial Sloan Kettering Cancer Centre, New York, New York)
   *In-house breast planning automation at Memorial Sloan Kettering Cancer Centre (also, my residency experiences as a Master’s physicist in the US)*

April 08 : **Marianne Aznar** (University of Manchester & Christie NHS Foundation Trust, United Kingdom)
   *Big data for small patients: Modelling of late effects after radiotherapy for childhood cancer*

April 22 : **Guillaume Landry** (University Hospital of the Ludwig-Maximilians-Universität, Munich, Germany)
   *Artificial intelligence in the radiotherapy workflow*
Summer 2022

May 13: Arthur Lalonde (Massachusetts General Hospital & Harvard Medical School, Boston, Massachusetts)
Toward online adaptive proton therapy using cone-beam CT data: Feasibility and impact in head and neck patients

May 20: Keara Boss (Environmental & Radiological Health Sciences, Colorado State University)
Canine translational models for radiation research

June 03: Shirin Enger (Radiation Oncology & Medical Physics, McGill University, Montreal, Québec)
MPU - Mission, vision and values in the future

June 10: John Kildea (Radiation Oncology & Medical Physics, McGill University, Montreal, Québec)
Looking back and forward: The rich history & bright future of Medical Physics

For questions regarding the MPU Noon Seminars Series, please contact:

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