

MPU SEMINAR SERIES : 2018-2019

Fall 2018

August 24 : Mark Dewhirst, PhD (Dept Radiation Oncology / Cancer Biology, Duke U, Durham, N. Carolina)

A study of two careers and their intersection at hypoxia

September 07 : An Tang, MD (CHUM, Montreal, QC)

Quantitative MRI in chronic liver disease: A progress report

September 21 : Principal Investigators (Medical Physics Unit, McGill U, Montréal, QC)

(Various topics)

September 28 : Guillaume Gilbert (Philips Healthcare, Montréal, QC)

Medical imaging research: Perspective from an industry scientist

October 05 : Darel Hunting, PhD (U Sherbrooke, Sherbrooke, QC)

Evidence that the human proteome is much larger & more complex than we imagined:

Implication for oncology & radiation oncology

October 09 : Saiful Huq, PhD (U Pittsburgh Cancer Institute, Pittsburgh, Pennsylvania)

Risk-based assessment of modern radiotherapy practice: Recommendations of AAPM TG100 protocol

October 26 : David Buckeridge, PhD (Epidemiology-Biostatistics-Occ Health, McGill U, QC)

Clinical & population health informatics research at McGill

November 02 : Ernesto Mainegra-Hing, PhD (National Research Council of Canada, Ottawa, ON)

Monte Carlo simulation accuracy of kV photon beams with EGSnrc: A status report

November 23 : Benoît Macq, PhD (Institute of Information & Communication Technologies, Electronics &

Applied Mathematics, Université Catholique Louvain-le-Neuve, Belgium)

Image guided proton therapy: Challenges for signal processing & machine learning

November 30 : Julie Cohen-Adad, PhD (Electrical Engineering, École Polytechnique, Montréal, Québec)

In vivo histology with MRI: Special focus on the spinal cord

December 07 : Emilie Soisson, PhD (U Vermont Medical Center, Burlington, Vermont)

Variations in radiation oncology practice

Winter 2019

January 11 : Mark Broeders (Canadian Nuclear Safety Commission, Ottawa, Ontario)

The CNSC: A science-based organization

January 18 : David Juncker, PhD (Biomedical Engineering, McGill University, Montreal, Quebec)

Microfluids for rapid diagnostics, isolation of circulating tumor cell clusters and tissue engineering

January *21* : Yannick Poirier, PhD (Radiation Oncology, University of Maryland, Baltimore, Maryland)

A review of the current state of physics & dosimetry reporting in radiation biology research

- January 25 : Philippe Dépres, PhD** (Engineering & Optical Physics, Université Laval, Québec, Québec)
Research data management in healthcare: Current challenges and trends
- February 01 : Various staff** (McGill University, SMBD-Jewish General Hospital, Montreal Neurological Institute)
MSc project presentations
- February 08 : Carlos Alves, PhD** (University of Rio de Janeiro, Rio de Janeiro, Brazil)
Laboratory of radiological sciences: Activities in development, structure & future projects
- February 15 : Amy Blum, PhD** (Dept Chemistry, McGill University, Montreal, Quebec)
Metamaterials: Controlling the interactions between light and matter
- March 15 : Fadi Hobeila, PhD** (Cité de la Santé de Laval, Laval, Quebec)
Global performance and operational efficiency in a radiation oncology department
- March 22 : Luc Beaulieu, PhD** (Université Laval-CHUQ, Laval, Quebec)
Novel approaches to simplify the planning, delivery and validation of real-time brachytherapy treatments
- April 05 : Nadia Octave, PhD** (Hôpital Hôtel-Dieu de Lévis-CIUSS Chaudière-Appalaches, Lévis, Quebec)
My medical physicist journey
- April 12 : Gabriela Stroian, PhD** (Medical Physics, McGill University Health Centre-CUSM, Montreal, Quebec)
Being a medical physicist: A continuous learning path
- May 03 : André Diamant, MSc** (Medical Physics, McGill University Health Centre, Montreal, Quebec)
Patient communication: A future role for medical physicists?
- May 10 : Ervin B. Podgorsak, Emeritus Professor** (Medical Physics, MUHC, Montreal, Quebec)
Professional issues in medical physics
- May 24 : Lilian Childress, PhD** (Physics, McGill University, Montréal, Québec)
Quantum optics and sensing with defects in diamond
- May 31 : Tal Arbel, PhD** (Electrical & Computer Engineering, McGill University, Montréal, Québec)
Machine learning in medical image analysis: Towards MRI-based precision medicine
- June 07 : Slobodan Devic, PhD** (Radiation Oncology, SMBD-Jewish General Hospital, Montréal, Québec)
Warburg effect: A consequence or the cause of carcinogenesis?
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