

MPU SEMINAR SERIES: 2020-2021

Fall 2020

September 11 : McGill MPU Principal Investigators (MPU, McGill U / MUHC)

Various research topics

October 09 : Charles Mayo (Radiation Oncology/Physics, University of Ann Arbor, Ann Arbor, Michigan)

Special medical physics consult process for re-irradiation at University of Michigan

November 13 : Radiation Oncology Town Hall, Improvement Committee

(Oncology/Medical Physics, McGill University, Montreal, Quebec)

Opal and the Quebec SmartCare Consortium

November 20 : Arman Sarfehnia (Medical Physics, Odette Cancer Center/Sunnybrook Health Sciences Center, Toronto, Ontario)

Going beyond TG51: Reference dosimetry in MR-linac

November 27 : John Kildea (Oncology/Medical Physics, McGill University, Montreal, Quebec)

Opal and the Quebec SmartCare Consortium

December 04 : Mark Pagel (Medical Physics, M.D. Anderson Cancer Center, Houston, Texas)

Molecular imaging of the tumor microenvironment

December 11 : François DeBlois (Radio-oncologie, Centre Hospitalier de l'Université de Montréal (CHUM), Montréal, Québec)

3D printing in radiation oncology at the CHUM

Winter 2021

January 08 : Lesley Buckley (Medical Physics, Ottawa Hospital, Ottawa, Ontario)

The many twists and turns in the life of a clinical medical physicist: How to prepare for the unexpected

January 15 : Grace Kim (Clinical Medical Physics, U-California San Diego, San Diego, California)

Using the incident-learning system to improve patient care: UCSD experience

January 22 : Atiyah Yahya (Medical Physics, Cross Cancer Institute / Oncology, U- Alberta, Edmonton, Alberta)

Optimized magnetic resonance spectroscopy for metabolite quantification at 9.4 T

February 05 : Principal Investigators (Medical Physics Unit / Biomedical Engineering, McGill University Health Centre / McGill University, Montreal, Quebec)

Master's research projects overview

February 12 : Shirin Enger

(Oncology / Medical Physics, McGill University / MUHC)

Innovations in brachytherapy: Intensity modulated brachytherapy & Monte Carlo/AI-based treatment planning

February 19 : Wes Culberson

(University of Wisconsin, Madison, WI)

Keeping radiation therapy dosimetry standardized with evolving technologies

February 26 : Teodor Stanescu

(University of Toronto, Toronto, ON)

Reinforced adaptive MRI-guided RT

March 12 : Roger Lecomte

(Université de Sherbrooke, Sherbrooke, QC)

Detection technology for PET molecular imaging

March 19 : Stefanie Ruel

(Open University, Milton Keynes, United Kingdom)

STEM-professional women's exclusion in the Canadian space industry: Reclaiming their space

April 09 : Pavlos Papaconstadopoulos

(Medical Physics, NKI - Netherlands Cancer Institute, Amsterdam, The Netherlands)

Intelligent systems for autocontouring QA

April 23 : Ane Appelt

(Leeds Institute of Medical Research, St James' University Hospital, Leeds, England)

Re-irradiation treatment planning and delivery

April 30 : Bo Stenerlöv

(Uppsala University, Uppsala, Sweden)

DNA damage and repair in treatment of malignant tumors

May 07 : Marika Nestor

(Uppsala University, Uppsala, Sweden)

Cancer-targeting strategies for improved molecular radiotherapy

May 14 : Jan Schuemann

(Harvard University, Cambridge, Massachusetts)

Proton FLASH experiments at MGH (Boston)

June 04 : Sarah Quirk / Kundan Thind

(Tom Baker Cancer Center / Medical Physics, University of Calgary – Calgary, Alberta)

Programmatic approach for use of decision tools in radiation medicine: Calgary's approach

June 11 : Magdalena Bazalova

(University of Victoria, Victoria, British Columbia)

FLASH radiotherapy with x-rays

June 18 : Ives Levesque

(Oncology / Medical Physics, McGill University / MUHC, Montreal, Quebec)

Fade to black: Metal artifacts and more

June 25 : LIMBUS AI (group)

(Limbus AI Inc, Regina, Saskatchewan)

Various presentations – Limbus AI

July 09 : Monica Serban

(Oncology / Medical Physics, McGill University / MUHC, Montreal, Quebec)

Brachytherapy in the treatment of cervical cancer: From historical systems to MR image guided techniques

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

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