Limited Space...Register Today
*Save $50.00 when you Register on or before September 9th

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AGENDA
Day 1
7:30am – 8:00am  Registration
8:30am – 9:30am  Essentials of CT Physics
• Photon Interactions
• Image Acquisition
• Axial vs. Helical Mode
• Reconstruction Techniques
9:30am – 10:45am  Factors Affecting Image Quality and Patient Dose
• Spatial and Contrast Resolution
• CTDI, DLP, and effective dose
• Scan acquisition parameters
• Methods of Dose Reduction
  ◊ Tube Current Modulation
  ◊ Iterative Reconstruction
10:45am - 11:00am  Break
11:00am - 11:30am  Artifacts in CT
• Clinically relevant examples
• Identification of artifacts
• Correction of artifacts
11:30am - 12:00pm  Technologist Radiation Protection
12:00pm - 12:30pm  Lunch
12:30pm - 1:30pm  Planning Session
• Immobilization
• Placing the Isocentre
• Localization scan versus data scan
• Markers used
• CT Calibration
1:30pm - 2:30pm  Best Practice Recommendations
• Methods of Protocol Optimization
  ◊ Filters
  ◊ Slice thickness
  ◊ Scan length
  ◊ Collimation
  ◊ 120 KVP versus Other
  ◊ Patient Factors
• Quality Assurance
2:30pm - 2:45pm  Break
2:45pm - 3:45pm  Special Techniques
• Respiratory Management
• 4DCT
• Contrast Media
3:45pm - 4:30pm  Future Directions, Review and Wrap-Up

AGENDA
Day 2
8:30am - 9:00am  Registration
9:00am - 10:30am  Lab 1: Morning QA Procedures
10:30am - 10:45am  Break
10:45am - 12:00pm  Lab 2: Brain-Localization
12:00pm - 12:45pm  Lunch
12:45pm - 2:00pm  Lab 3: Breast/Thorax
2:00pm - 2:15pm  Break
2:15pm - 3:30pm  Lab 4: Palliative-Emergency Spine

Course Faculty

Jeff Frimeth, MSc., MCCPM is a board-certified Diagnostic Medical Physicist currently employed with Xspect Inc. In this position, he performs CAR physics inspections of mammography systems, physics inspections of CT and BMD systems, and consults on issues regarding radiation safety, dose management, and image quality. Jeff was previously employed at Sunnybrook Health Sciences Centre, as well as completed a Diagnostic Imaging residency program in Dallas, TX. He has experiences in teaching radiology residents and MRT’s in various topics. Jeff is also an active member of the Canadian Organization of Medical Physicists (COMP) and the American Association of Physicists in Medicine (AAPM).

Janos Juhasz, BSc., M.Sc., Ph.D., MCCPM primary research and clinical focus is in the field of radiation biophysics and motion management in radiation therapy. He is currently the Physics lead of the breast disease and hematology site teams and responsible with the total body irradiation treatments. He is overseeing the CT Simulators, conventional simulators, respiratory gating, and 4D CT techniques at the Juravinski Cancer Centre. Dr. Juhasz also teaches various Physics and Radiation Therapy courses at Ryerson University, McMaster University, and Hamilton Health Sciences.

Michele Cardoso BSc, MRT(T) is a Clinical Specialist Radiation Therapist at the Juravinski Cancer Centre with a specialty in Breast Cancer. She has a bachelor of Science degree from McMaster University and is a graduate of the Hamilton School of Radiation Therapy. More recently she has been studying with Sheffield Hallam University where she is completing her Masters in Advanced Practice Radiotherapy and Oncology. She has developed and taught courses in Oncology, Radiobiology and Radiation Therapy at McMaster and was previously Clinical Education Leader for the Mohawk-McMaster Medical Radiation Sciences Program. Michele is passionate about providing cancer patients with the best possible experience using state of the art of technology combined with compassionate individualized care.

Christin Farrell, BSc, MRT (R), CTIC is an X-Ray and CT Technologist, currently working as Clinical Development Specialist - CT at Toshiba Canada Medical Systems. In her role Christin provides application training on Toshiba CTs across Canada, as well as supports ongoing CT research based out of the Joint Department of Medical Imaging in Toronto. Prior to working for Toshiba Christin worked in diagnostic imaging at Mount Sinai Hospital after graduating from the Queens University/Eastern Ontario School of X-ray Technology joint degree/diploma program. Christin was pleased to assist with putting together this course, but is unable to attend in November due to the birth of her first child this fall.