

A man in a dark jacket is seen from behind, holding a baby wrapped in a white blanket. They are standing on a balcony with a stone balustrade, looking out over a dense city skyline at sunset. The sky is a warm orange and yellow, and the city buildings are silhouetted against the light. The overall mood is peaceful and contemplative.

SIEMENS

Program guide

Siemens Canada
Innovations Symposium 2014

Educating to Advance Human Health

October 24–26, 2014
Hilton Montréal Bonaventure
Montréal, Québec

siemens.ca

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Need help?

Stop by the Siemens registration and hospitality desk located on the **Premier** level.

Welcome

Dear Innovations Symposium Delegate:

Welcome to Siemens Canada Innovations Symposium 2014, presented by Siemens Healthcare. We are excited to be hosting this year in the heart of Montréal, Québec – a city as rich in tradition as it is in cutting edge innovation – an ideal backdrop for this year's theme, Educating to Advance Human Health.

We are pleased to bring you a comprehensive two-and-a-half day program that provides educational opportunities to improve your skills, learn new techniques, and utilize new technologies to maximize the use of your Siemens systems as well as opportunities for peer-to-peer collaboration, networking, and obtaining continuing education credits. No other events offer as much practical advice, industry insight, and networking opportunity as Innovations Symposium.

This year's program was planned by a dedicated team of customers and Siemens representatives working together throughout the year to plan an informative and timely agenda. The comprehensive educational program features knowledgeable industry experts, customer success stories, clinical and product optimization breakout sessions, solution updates, and demonstrations by product experts. More than 60% of sessions feature customer presenters.

As your trusted partner, Siemens is dedicated to developing and producing products and solutions to help you improve the level of care you deliver to your patients.

We hope you have a great Symposium and visit to Montréal!

Best regards,



Jim Graziadei
Senior Vice President
Siemens Canada Limited, Healthcare

Program agenda

Friday, October 24, 2014

7:00 a.m. – 4:15 p.m.

Registration & Hospitality Desk

Premier Level Registration Desk

9:00 a.m. – 4:00 p.m.

Pre-Symposium Hands-On Workshops

See pages 6–9 for more information.

Pre-registration required

Saturday, October 25, 2014

6:45 a.m. – 5:00 p.m.

Registration & Hospitality Desk

Premier Level Registration Desk

7:00 a.m. – 8:15 a.m.

General Breakfast & Expo

Westmount/Outremont

See pages 40–43 for more information.

8:15 a.m. – 9:00 a.m.

General Session

Westmount/Outremont

Opening Remarks

Speaker: **Jim Graziadei**, Senior Vice President
Siemens Canada Limited, Healthcare

Keynote Address

Speaker: **Gilles Lefebvre**
Montréal Heart Institute
Montréal, Québec

9:00 a.m. – 5:00 p.m.

Education Sessions

See pages 10–39 for more information.

12:00 p.m. – 1:00 p.m.

General Luncheon & Expo

Westmount/Outremont

6:30 p.m. – 9:30 p.m.

Reception & Dinner

Westmount/Outremont

Sunday, October 26, 2014

6:45 a.m. – 12:30 p.m.

Registration & Hospitality Desk

Premier Level Registration Desk

7:00 a.m. – 8:00 a.m.

General Breakfast

Fontaine A

8:00 a.m. – 12:30 p.m.

Education Sessions

See pages 10–39 for more information.

Computed Tomography

Friday, October 24, 2014

Dual Energy Workshop for Radiologists*

Mont Royal

9:00 a.m. – 12:00 p.m.

Speaker: **Francesco Pisana**,
Siemens AG, Forchheim, Germany

This workshop will cover Dual Energy physics and theory from basic to advanced knowledge base for radiologists. A broad range of Dual Energy cases will be discussed by the lecturer using the *syngo.via* demo system and includes hands-on participation for users.

Multiply Your Potential with Flash for Radiologists*

Verdun

1:00 p.m. – 3:00 p.m.

Speaker: **Patrick McLaughlin, MD**
Vancouver General Hospital, Vancouver, BC

This workshop will cover lectures on the theoretical concept of the Flash scanning mode including its unique temporal resolution and acquisition properties. A review of multiple Flash cases will be presented focusing on its advantages in the clinical environment.

Dual Energy Workshop for Technologists*

CT2A = 3.0

Mont Royal

1:00 p.m. – 4:00 p.m.

Speaker: **Francesco Pisana**
Siemens AG, Forchheim, Germany

This workshop will cover Dual Energy physics and theory relevant to technologists. A broad range of Dual Energy cases will be discussed by the lecturer using the *syngo.via* demo system and includes hands-on participation for users.



Magnetic Resonance

Friday, October 24, 2014

Fundamentals of MR Abdominal Imaging – Lecture

MR1A/MR2A = 2.0

10:00 a.m. – 12:00 p.m. (French)

1:00 p.m. – 3:00 p.m. (English)

Hampstead

Speaker: **Eric Murray**

Siemens Canada Limited
Montréal, QC

This lecture will cover Sequences including diffusion, the optimization of protocols and a look at breath-hold versus free breathing.

syngo.via – MR Drop-in Clinic

10:00 a.m. – 3:15 p.m.

Fundy (English)

Longueuil (French)

Speaker: **Bart Schraa**

Siemens Canada Limited
Oakville, ON

Celine Leclerc

Siemens Canada Limited
Montréal, QC

This drop-in clinic will give the MR Technologist the opportunity to look at the basics to advanced workflows.

Molecular Imaging

Friday, October 24, 2014

IQ•SPECT Workshop*

MI1A = 2.0

2:00 p.m. – 4:00 p.m.

Pointe-aux-Trembles

Speaker: **Guillaume Bouchard, MD**

CSSS de Laval
Montréal, QC

Jean Gregoire, MD

Montréal Heart Institute
Montréal, QC

In this workshop participants will benefit from a presentation of two different customer experiences with IQ•SPECT. The objective is to listen to each experience and then have a round table type of discussion with these two experts in order to answer questions, share techniques and even learn some hints and tips about IQ•SPECT.

Computed Tomography

Fontaine B

Saturday, October 25, 2014

7:00 a.m. – 8:15 a.m.

Breakfast & Expo

Westmount/Outremont

9:00 a.m. – 9:45 a.m.

CT Innovations

CT1 = 0.75

Speaker: **Bernhard Schmidt, PhD**

Siemens AG

Forchheim, Germany

This topic will focus on the upcoming innovations in the imaging modality of CT. Dr. Schmidt will cover a wide variety of future technologies arriving, including the new Dual Source technologies, new iterative techniques, and Dual Energy applications. A particular focus will be put on Flash techniques and dose saving innovations that will be placed on Siemens CT scanners in the future. New post processing software will also be discussed, such as Bone Marrow Edema.

9:45 a.m. – 10:30 a.m.

Dual Energy Imaging

Speaker: **Patrick McLaughlin, MD**

Vancouver General Hospital

Vancouver, BC

This lecture will cover all relevant Dual Energy topics on the Siemens Flash Dual Source Scanner and will include theoretical concepts of Dual Energy imaging, focusing specifically on the dual source simultaneous acquisition methodology. In addition, Dual Energy case studies will be presented, covering a range of applications such as bone marrow edema, virtual non contrast, bone removal, gout, kidney stones and metal artifact reduction programs as exemplified in the monoenergetic application.

10:30 a.m. – 10:45 a.m.

Refreshment Break

Foyer

10:45 a.m. – 11:30 a.m.

CT3 = 0.75

Neuro Perfusion

Speaker: **Francesco Pisana**

Siemens AG

Forchheim, Germany

This topic will cover all aspects of Neuro Perfusion in CT. This includes discussion on whole brain perfusion coverage using the shuttle mode, software and hardware dose reduction techniques (such as 4D noise reduction). Acquisition Protocol planning will be covered for technologists, as well as theoretical concepts of perfusion imaging. Explanations for perfusion values such as cerebral blood flow, blood volume, mean transit time, time to drain, de-termination of tissue at risk vs. non viable tissue and time attenuation curves will also be covered.

11:30 a.m. – 12:00 p.m.

CT4 = 0.5

Life and Death in the Emergency Room CT

Speaker: **Caroline Khazei, RTR**

British Columbia Institute of Technology

Vancouver, BC

This presentation will highlight a day in the life of a CT technologist at a tertiary care and trauma referral centre. The role of the technologist in the emergency based CT department will be reviewed, highlighting the Trauma, Cardiac and Dual Energy protocols as well as real-life experiences.

12:00 p.m. – 1:00 p.m.

Lunch & Expo

Westmount/Outremont

1:00 p.m. – 1:45 p.m.

CT5 = 0.75

Low Dose ImagingSpeaker: **Patrick McLaughlin, MD**Vancouver General Hospital
Vancouver, BC

This topic will cover the new advances in dose saving technologies, including utilization of the Stellar detector and its applications in regards to dose savings, higher in plane resolution, power consumption savings, and increased signal to noise ratio. Iterative reconstruction techniques will be covered using SAFIRE. The progress on plain film replacement by CT scanners utilizing new detector technologies will also be discussed, along with case studies to illustrate this.

1:45 p.m. – 2:30 p.m.

CT6 = 0.75

Thoracic Imaging in CTSpeaker: **John Mayo, MD**Vancouver General Hospital
Vancouver, BC

This topic will cover the fundamentals of CT imaging of the chest. This includes streamlining of chest protocols, and dose saving strategies in regards to chest imaging. Chest pathology, etiology and case studies will also be presented that exemplify some of the more interesting findings of thoracic imaging.

2:30 p.m. – 3:15 p.m.

CT7 = 0.75

Missed Diagnosis in CT: The Role of Optimizing Scan Protocols in Preventing ItSpeaker: **Elliot K. Fishman, MD**The Johns Hopkins Hospital
Baltimore, MD

One of the most challenging aspects of CT is the correct interpretation of the study. While there are many reasons for errors, many relate to study protocol design as well as how the study is reviewed (axial vs. MPR vs. 3D). This talk will address many of the pitfalls and how the use of correct CT scan protocols (i.e. dual phase, MPRs, CT angiography) can go a long way in not only preventing errors but also in optimizing patient care.

3:15 p.m. – 3:30 p.m.**Refreshment Break**

Foyer

3:30 p.m. – 4:15 p.m.

CT8 = 0.75

Radiology at 119: Six "Emerging" Technologies that are Going to Change How We WorkSpeaker: **Tim O'Connell, MD**Vancouver General Hospital
Vancouver, BC

While ongoing improvements to medical imaging modality technologies help us image anatomy and disease processes in more detail, ancillary informatics applications now becoming available will also have a very significant impact on how we do our jobs in the near future. This talk will provide an overview of Clinical Decision Support, Critical Results Management, Radiation Dose Tracking & Protocol Management, Visual Control Systems, Natural Language Processing, and Advanced Image Recognition technologies and software to help you understand today's drivers for change and how they will affect all of us going forward.

6:30 p.m. – 9:30 p.m.**Reception & Dinner**

Westmount/Outremont

Sunday, October 26, 2014

7:00 a.m. – 8:00 a.m.

Breakfast

Fontaine A

8:00 a.m. – 8:45 a.m.

CT12 = 0.75

Advanced CT Simulation for Radiation Oncology

Speaker: **David Roberge, FRCP**

Hôpital Notre-Dame du CHUM
Montréal, QC

Dr Roberge will review the CT simulation process and review how advanced CT imaging may be applied to radiation oncology. Discussion will include DSCT, DECT, iterative reconstruction and advanced 4D CT imaging.

8:45 a.m. – 9:15 a.m.

Speaker: **Louis Frederic Daigle**

Institut national de la recherche scientifique
Québec, QC

9:15 a.m. – 10:00 a.m.

CT11 = 0.75

TAVI Planning

Speaker: **Theo Blake, MD**

Royal Columbian Hospital
New Westminster, BC

This topic will cover TAVI (Trans Thoracic Valve Catheter Implantation) planning and the utilization of the CT modality in the planning of these procedures. The methodology and clinical history of aortic valve stenosis will be examined, and how TAVI planning using CT as an imaging modality will be presented. In addition, the clinical use of the Siemens post processing software, *syngo.via*, will be discussed to assist in obtaining measurements for these minimally invasive procedures in the intervention rooms by the cardiologists. The synergy between the CT scanner and *syngo.via* and the interventional room will be examined.

10:00 a.m. – 10:15 a.m.

Refreshment Break

Foyer

10:15 a.m. – 11:00 a.m.

Novel Uses of a CT-on-rails in an Integrated Brachytherapy OR Suite

Speaker: **Dr Marc Gaudet**

CSSS de Gatineau
Gatineau, QC

11:00 a.m. – 11:45 a.m.

CT13 = 0.75

Cardiac Findings in Thoracic CT

Speaker: **Richard Coulden, MD**

University of Alberta Hospital
Edmonton, AB

This topic will cover the fundamentals of cardiac and thoracic imaging in CT. The relationship between thoracic and cardiac findings will be examined. Optimization of chest and cardiac protocols will be presented, including Flash, sequential and spiral mode scanning. Technical parameters such as pitch, kV and mAs and how they affect image quality will be discussed, as well as dose optimization strategies for these protocols. Sample case studies examining chest and cardiac pathologies and findings will be presented.

Laboratory Diagnostics

Fontaine A | French only

Saturday, October 25, 2014

7:00 a.m. – 8:15 a.m.

Breakfast & Expo

Westmount/Outremont

9:30 a.m. – 10:30 a.m.

Laboratories in Québec:

Toward an Integrated Provincial System

Speaker: **Marie-Claire Bélanger, PhD, CSPQ, FCACB**

Centre Hospitalier de l'université de Montréal

Hôpital Saint-Luc – Pavillon Principal

Montréal, QC

For the past few years, laboratories in Québec have been undergoing considerable changes in an effort to optimize diagnostic analyses. To achieve this, work has been undertaken on a province-wide scale. The aim of this conference is to present and discuss the goals and impacts, along with the potential benefits and drawbacks of this reform.

10:30 a.m. – 11:00 a.m.

Refreshment Break

Foyer

11:00 a.m. – 12:00 p.m.

**Urine Analysis Automation Process Optimization:
Replacing Microscopes with Magnifiers to Find Solutions**

Speaker: **Alexandre Benoit, PhD, DESG, DEPD, CSPQ, FCACB**

Centre Hospitalier de Verdun

Verdun, QC

Urine analysis laboratory automation has become particularly beneficial: it has resolved a number of urgent needs, particularly in terms of deficiencies in the standardization of analyses and results output. This presentation summarizes the integrated approach that can be used to improve the urine analysis process. We seek to understand whether or not it is possible to optimize urine analysis and, above all, what steps and factors to consider.

12:00 p.m. – 1:00 p.m.

Lunch & Expo

Westmount/Outremont

1:00 p.m. – 1:30 p.m.

The Importance of Project Management and Change Management Integration

Speaker: **Francis-Pierre Carrier**

Gestion FNX Inc.

Saint-Eustache, QC

What is project management? What can we learn from it and what are the pitfalls? Is the approach relevant to the development of the Lean culture? Finally, change management must be fully integrated to all types of projects and every method chosen to achieve them. What is the reason for this and what can we do?

1:30 p.m. – 2:00 p.m.

Automation Project Management

Speaker: **Denis Sabourin, MLT, PMP**

Siemens Canada Limited

Ottawa, ON

An overview of a laboratory automation project with an emphasis on the processes and organization critical to its success.

2:00 p.m. – 3:00 p.m.

Implementation of a Pre-Analytical System

Speaker: **Michel Bouthillier, PhD, FCACB**

Hôpital de Granby
Centre de santé et des services sociaux de la
Haute-Yamaska,
Granby, QC

This session will focus on the experience related to the transition of StreamLab, a pre-analytical system integrating 3 biochemistry instruments from a traditional biochemistry lab. As well as discuss the decisions made for interface, optimization of the system and gain obtained in the lab after implementation.

3:00 p.m. – 3:30 p.m.

Refreshment Break

Foyer

3:30 p.m. – 4:30 p.m.

Understanding Calibration

Speaker: **Stephane Brun**

Siemens Canada Limited
Ottawa, ON

Calibration is an integral part of day-to-day laboratory activities. Do you understand precisely what the calibration methods involve? What mathematical models are used for the curve smoothing, the applied algorithms, the device's integrated calibration verification and the acceptable tolerance? This presentation seeks to provide a general introduction to the basics of linear and non-linear calibration, the calculation of the calibration curve and the parameters used to confirm the curve. Attendees will also learn about obtaining sensitivity for low values and allowing for the dosing of high concentrations during the calibration of an immunological method. They will also learn about calibration stability and when to calibrate.

6:30 p.m. – 9:30 p.m.

Reception & Dinner

Westmount/Outremont



Molecular Imaging

Mont Royal

Saturday, October 25, 2014

7:00 a.m. – 8:15 a.m.

Breakfast & Expo

Westmount/Outremont

9:00 a.m. – 9:30 a.m.

MI1 = 0.5

Changing the Face of Nuclear Medicine: Introducing Symbia Intevo™ Technology

Speaker: **Marc Murray**

Siemens Canada Limited
Oakville, ON

This presentation will provide an introduction to the new Symbia Intevo with the xSPECT technology that enables the Intevo to become quantitative. Participants will also get an overview of the xSPECT bone and xSPECT Quant technology and Symbia Intevo unique features such as Quantitative Quality Control, Accurate Attenuation Correction, Early Treatment Modification, Low Dose CARE, Automatic Quality Control and Automatic Collimator Changer.

9:30 a.m. – 10:00 a.m.

MI2 = 0.5

Changing the Face of Nuclear Medicine: Clinical Case Review of Symbia Intevo™

Speaker: **Partha Ghosh, MD**

Siemens Medical Solutions USA, Inc.
Hoffman Estates, IL

This session will introduce the new concept of improved bone SPECT/CT imaging with multimodal reconstruction (xSPECT Bone) and its clinical utility in characterization of benign and malignant bone lesions, post surgical conditions, spinal and joint pathology and in evaluation of prosthetic joints with clinical case examples illustrating improved image quality and diagnostic value. Quantitative SPECT/CT (xSPECT Quant) evaluation of clinical indications like radionuclide therapy of bone metastases, liver tumor perfusion using ^{99m}Tc MAA SPECT/CT and other related procedures and review of the potential impact of quantitative SPECT in future diagnostic and therapy approaches.

10:00 a.m. – 10:30 a.m.

MI3 = 0.5

Quantification in Radionuclide Therapy

Speaker: **Jean-Mathieu Beauregard, MD**

Hôtel Dieu de Québec
Québec, QC

This presentation will cover how Quantitative SPECT (QSPECT) refers to absolute quantification in SPECT, where uptake data is measured and displayed in Bq/cc or SUV. QSPECT/CT enables to perform more accurate, patient-specific dosimetry than is possible with conventional methods. This has the potential to improve the efficacy of many radionuclide therapies, such as peptide receptor radionuclide therapy (PRRT) of neuroendocrine tumours, through therapy personalization. QSPECT also allows better tumour characterization and assessment of therapeutic response.

10:30 a.m. – 11:00 a.m.

Refreshment Break

Foyer

11:00 a.m. – 11:30 a.m.

MI4 = 0.5

Hybrid Imaging by SPECT/CT: Doing More with Less?

Speaker: **Khun Visit Keu, MD**

CSSS de Laval
Laval, QC

This lecture will focus on: (a) understanding the role of SPECT/CT over planar and SPECT only studies; (b) appreciating the role of SPECT/CT in the management of patients; and (c) reviewing the dosimetry associated with SPECT/CT.

11:30 a.m. – 12:00 p.m.

MI5 = 0.5

Dos and Don'ts with SPECT/CT

Speaker: **Ashley Hamilton, RTNM**

Dr. Everett Chalmers Hospital
Fredericton, NB

SPECT/CT is becoming common place in the Nuclear Medicine imaging department. This presentation is designed to give attendees an opportunity to hear firsthand experiences of some of the things to do or not do during a SPECT/CT procedure to provide for optimum results. Attendees will be given an opportunity at the end to ask questions and/or discuss the points given during the presentation.

12:00 p.m. – 1:00 p.m.

Lunch & Expo

Westmount/Outremont

1:00 p.m. – 1:30 p.m.

MI6 = 0.5

Fusion with Other Modalities

Speaker: **Zach Kilburn, RTNM, BHSc.**

Dr. Everett Chalmers Hospital
Fredericton, NB

The purpose of this session is to outline the use of Siemens software to combine 3D data sets (CT, MRI, etc.) with molecular imaging data sets in order to produce a fusion image. This process will aid in localization, reduce the patient dose and also give the technologist something fun to do.

1:30 p.m. – 2:15 p.m.

MI7 = 0.75

**Next Step in SPECT/CT Processing: A Clinical Summary
Optimizing Cardiac, Lung and Bone Volumes**

Speaker: **Jozef Nycz, MRT(N)**

Timmins and District Hospital
Timmins, ON

The presentation will lead with some health demographics for Northern Ontario and then expand on how we shaped our imaging program with SPECT/CT. SPECT/CT topics will be combined MPI/Ca scoring. Technical points for good CT acquisition and processing with the associated exposures. Bone SPECT/CT processing with advanced CT analysis.

2:15 p.m. – 2:45 p.m.

MI8 = 0.5

Cardiac PET/CT

Speaker: **Jean Grégoire, MD**

Institute of Cardiology of Montréal
Montréal, QC

The objectives of this presentation are for participants to understand the advantages of cardiac PET compared to SPECT in the clinical setting, to determine how hybrid and fusion imaging can help CAD patient management, and to evaluate the potential of plaque imaging with FDG in patients with vascular disease.

2:45 p.m. – 3:15 p.m.

MI9 = 0.5

PET/CT Imaging Dedicated to Radiation Oncology

Speaker: **David Roberge, FRCP**

Hôpital Notre-Dame du CHUM
Montréal, QC

Dr Roberge will offer his perspective on the use of a PET/CT unit dedicated to radiation oncology. The clinical experience of the CHUM with a dedicated PET/CT system will be discussed as will future opportunities for PET/CT imaging in radiation oncology.

3:15 p.m. – 3:30 p.m.

Refreshment Break

Foyer

3:30 p.m. – 4:00 p.m.

MI10 = 0.5

The End of Stop and Go: Introducing mCT Flow Technology

Speaker: **Madeleine Marques Sousa, RTNM**

Siemens Canada Limited
Montréal, QC

The focus of this session is to present the technology behind the new Biograph mCT Flow and understand the benefits of having a continuous bed motion vs. stop-and-go in terms of patient comfort, radiation exposure, acquisition time and resolution optimization.

4:00 p.m. – 4:30 p.m.

MI11 = 0.5

The End of Stop and Go: Clinical Case Review of mCT Flow

Speaker: **Partha Ghosh, MD**

Siemens Medical Solutions USA, Inc.
Hoffman Estates, IL

This session will demonstrate the clinical and workflow advantages of continuous bed motion acquisition (FlowMotion) enabling variable table speed for flexible high resolution and gated PET studies which enable higher lesion detectability and improved motion management through clinical case examples. To establish the clinical value of advanced reconstructions and motion management techniques for therapy decision making and radiation planning and the role of FlowMotion to integrate such techniques into clinical routine.

6:30 p.m. – 9:30 p.m.

Reception & Dinner

Westmount/Outremont

Magnetic Resonance

Hampstead/Côte St-Luc

Saturday, October 25, 2014

7:00 a.m. – 8:15 a.m.

Breakfast & Expo

Westmount/Outremont

9:00 a.m. – 9:45 a.m.

Innovations in MR

MR1 = 0.75

Speaker: **Christian Muehlhaeusser**

Siemens AG

Erlangen, Germany

Siemens addressed well known challenges in MR with the forthcoming VE11 release: Solutions for noise reduction, motion management, metal artifacts and parametric imaging are addressed with Quiet Suite, FREEZEit, MyoMap, Advanced WARP, Liverlab, DotGo, etc.

Simultaneous PET-MR is also gaining momentum within the research and clinical community and the latest developments of the Biograph mMR will also be presented.

9:45 a.m. – 10:30 a.m.

MR2 = 0.75

Integration of MR Imaging Results into the Patients Workflow from Diagnosis to Treatment Management

Speaker: **Marco Essig, MD**

Winnipeg Regional Health Authority,

Health Sciences Centre General Hospital

Winnipeg, MB

The objectives of this session are to present different advanced and functional imaging techniques that can be used to further increase the diagnostic performance of MR imaging for diagnostic work-up, treatment decision and planning and the follow-up assessment and present functional imaging techniques including perfusions MRI, dynamic T1 weighted MRI, diffusions tensor and fMRI. The presentation will also discuss the role of protocol standardization and the different post-processing strategies and discuss pathologies including brain tumors, neurodegenerative disorders, vascular diseases and infections.

10:30 a.m. – 11:00 a.m.

Refreshment Break

Foyer

11:00 a.m. – 12:00 p.m.

MR3 = 1.0

Why We are Doing Cardiac MR and What We are Looking For

Speaker: **Bernd J. Wintersperger, MD, EBCR, FAHA**

University Health Network, Mount Sinai Hospital and

Women's College Hospital University of Toronto

Toronto, ON

The objectives of this session are to learn about indications where cardiac MR may make the difference, understand the role of cardiac MR in clinical scenarios, learn what imaging aims for to provide valuable diagnostic information and learn how to optimize applied clinical cardiac MR imaging techniques.

12:00 p.m. – 1:00 p.m.

Lunch & Expo

Westmount/Outremont

1:00 p.m. – 1:45 p.m.

MR6 = 0.75

Liver MRI: Recent AdvancesSpeaker: **Kartik Jhaveri, MD**

University of Toronto

Mt. Sinai and Womens' College Hospital
Toronto, ON

In this session, Dr. Jhaveri will highlight MRI applications in Diffuse Liver disease, discuss Advanced MRI techniques for Liver iron, fat and fibrosis quantitation, review MRI protocol optimization and applications with Liver specific contrast agents, and present recent advances in dynamic contrast enhanced techniques for Liver MRI.

1:45 p.m. – 2:30 p.m.**Biograph mMR**Speaker: **William Pavlosky, MD**St. Joseph's Health Centre
London, ON**2:30 p.m. – 3:15 p.m.**

MR4 = 0.75

Experience of Avanto^{fit} & Skyra^{fit} UpgradeSpeaker: **Nancy Talbot, MAppSc, MRT (MR)(R)**Joint Department of Medical Imaging,
Princess Margaret Cancer Centre
University Health Network
Toronto, ON

The objectives of this session are to:

- Introduce the process for the Avanto^{fit} and Skyra^{fit} upgrades including hardware changes and experience with timelines
- Explain the software changes moving from VB to VD software and some of the key features and optimizations
- Demonstrate image quality changes resulting from the changes to hardware and software for a variety of patient exams
- Review of changes implemented over nine months to one year following the upgrades

3:15 p.m. – 3:30 p.m.**Refreshment Break**

Foyer

3:30 p.m. – 4:15 p.m.

MR7 = 0.75

3T Prisma and 7T Step 2.1 Patient Studies in a Research SettingSpeaker: **Ravi S. Menon, Ph.D.**The University of Western Ontario
London, ON

This presentation will focus on:

- Establishing siting parameters for high field and ultra high field MRI installations
- Describing the advantages that stronger gradients have for advanced MRI applications like DTI and fMRI
- Defining the advantages and challenges of 7T MRI over 3T MRI
- Describing the benefits of parallel transmit for 3T and 7T
- Understanding the advantages of 32 and 64 channel receive coils for accelerated imaging

4:15 p.m. – 5:00 p.m.

MR8 = 0.75

MR Imaging Dedicated to Radiation OncologySpeaker: **David Roberge, FRCP**Hôpital Notre-Dame du CHUM
Montréal, QC

Dr Roberge will offer his perspective on the use of MRI dedicated to radiation oncology. The clinical experience of the CHUM with a dedicated MRI simulator will be discussed as will future opportunities for MRI imaging in radiation oncology.

6:30 p.m. – 9:30 p.m.**Reception & Dinner**

Westmount/Outremont

Sunday, October 26, 2014

7:00 a.m. – 8:00 a.m.

Breakfast

Fontaine A

8:00 a.m. – 9:30 a.m.

MR9 = 1.5

MR Safety

Speaker: **Jean Th  berge, PhD, FCCPM**

St. Joseph's Health Care London,
Western University
The Lawson Health Research Institute
London, ON

Presentation objectives are to:

- Identify the array of safety concerns encountered in a clinical MRI practice
- Develop an appreciation of the factors influencing SAR, patient heat dissipation and the likelihood of RF burns and thermal events
- Become familiar with MRI safety myths
- Develop an appreciation of the factors involved in implant safety evaluation
- Become familiar with day-to-day challenges of conditional labeling of medical implants
- Become familiar with factors relevant to developing a local quench response policy

9:30 a.m. – 10:15 a.m.

MR10 = 0.75

Advances in Musculoskeletal MR Imaging

Speaker: **Dean Bruce, MD, FRCPC, BSc.**

University of Alberta Hospital
Edmonton, AB

This session will cover the application of special MRI protocols to better diagnose specific musculoskeletal pathology, becoming skilled at the MRI diagnosis and classification of high/low flow vascular malformations, and increased understanding of rare bone and soft tissue lesions through individual cases.

10:15 a.m. – 10:30 a.m.

Refreshment Break

Foyer

10:30 a.m. – 11:30 a.m.

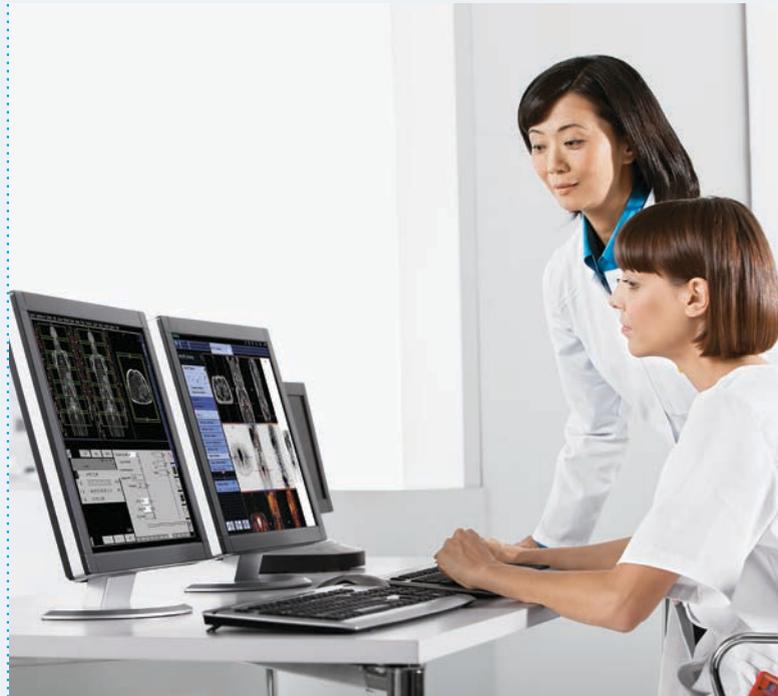
MR11 = 1.0

DotGO / Cockpit VE11

Speaker: **Bart Schraa**

Siemens Canada Limited
Oakville, ON

DotGO is the new way of managing the protocols in the VE11 software. The Dot Cockpit replaces the Exam Explorer. This presentation gives an overview of the changes, improvements and enhancements of the VE11 including the Exam queue and Dot Cockpit.



Ultrasound

Fontaine D

Saturday, October 25, 2014

SATURDAY TOTAL = 5.75 CME CREDITS

7:00 a.m. – 8:15 a.m.

Breakfast & Expo

Westmount/Outremont

9:00 a.m. – 10:00 a.m.

Ultrasound of the Hip: A Problem-Solving Approach

Speaker: **Nathalie J Bureau, MD MSc FRCPC**

Université de Montréal
Montréal, QC

Objectives of this session include:

- To be familiar with the main indications for US in adult hip disorders.
- To review the pertinent anatomy, the physiopathology and the US findings of articular and tendon disorders about the hip.
- Recognize the importance of dynamic US imaging in the evaluation of hip disorders.
- Learn the techniques to guide percutaneous procedures about the hip.

10:00 a.m. – 10:30 a.m.

Workshop: Hands-on Scanning of the Hip

Speaker: **Nathalie J. Bureau, MD MSc FRCPC**

Université de Montréal, Montréal, QC

In this session, the participants will be given the opportunity to interact with an instructor to improve their scanning technique.

- Learn the protocols for the examination of the different anatomic regions of the hip.
- Learn the maneuvers to perform dynamic ultrasound of the hip.
- Position patients to optimize musculoskeletal ultrasound examination.

10:30 a.m. – 11:00 a.m.

Refreshment Break

Foyer

11:00 a.m. – 12:00 p.m.

**Workshop: Hands-on Scanning of the Hip
(session continued)**

12:00 p.m. – 1:00 p.m.

Lunch & Expo

Westmount/Outremont

1:00 p.m. – 1:45 p.m.

**Role of Imaging and Elastography in Screening for
Nonalcoholic Steatohepatitis**

Speaker: **An Tang, MD, MSc, FRCPC**

Department of Radiology, Centre Hospitalier
de l'Université de Montréal (CHUM), Montréal,
Québec; CHUM Research Center (CRCHUM)
Québec, QC

At the conclusion of this session, participants should be able to:

- List the disease continuum of nonalcoholic fatty liver disease (NAFLD).
- Recognize the role of imaging and elastography methods in screening for nonalcoholic steatohepatitis (NASH).
- Discuss screening strategies for NASH.
- Identify key factors that drive cost-effectiveness of screening for NASH.

1:45 p.m. – 2:30 p.m.

Total Breast Ultrasound

Speaker: **Coventry Louisy, MD**

Burlington Ultrasound and Radiology
Burlington, ON

This session will focus on a short history of breast imaging, 3D ultrasound in investigation of breast, and correlation of 3D ultrasound, MRI and surgical specimen in clinical cases.

2:30 p.m. – 3:15 p.m.

Obstetric Case Studies

Speaker: **Wendy Lawson, BSc. Dipl. H.S., RDMS, RVT, CRGS, CRVS**

Mohawk-McMaster Institute for Applied Health Sciences, Mohawk College Enterprise
Hamilton, ON

This lecture utilizes interesting and relevant cases in obstetrics to deliver five different topics in OB sonography and five take away techniques to enhance practice for sonographers. This session brings together guidelines in obstetrics, research and high quality images to navigate unique challenges in obstetrical sonography.

3:15 p.m. – 3:30 p.m.

Refreshment Break

Foyer

3:30 p.m. – 4:15 p.m.

Change Management

Speaker: **Kim Statham**

Interior Health Authority
Kelowna, BC

Whether it be bringing in a new system, changing the workflow, change in the schedule – everyone responds to change differently. Responses run the gambit from – “I’ll go with the flow” to “I’ll do it but will make it as miserable as possible” to “I’m not going to cooperate.” We recently underwent a series of changes at our department – everything from our systems to our daily organization. We observed and experienced almost every kind of reaction to change. This session will focus on: areas covered, creating a shared need, shaping a vision, mobilizing commitment (transition state), making change last, monitoring progress, change agent and their role, facing WIIFM (“What’s in it for me!”), making change last, and things learned – everybody makes mistakes.

4:15 p.m. – 5:00 p.m.

Innovations in Radiology by the Ultrasound Pioneers

Speaker: **Douglas Younger III**

Siemens Medical Solutions USA, Inc.
California, USA

In this session, we will review the future of ultrasound technologies that will be available on the S-Family.

6:30 p.m. – 9:30 p.m.

Reception & Dinner

Westmount/Outremont



Sunday, October 26, 2014

SUNDAY TOTAL = 6.5 CME CREDITS

7:00 a.m. – 8:00 a.m.

Breakfast

Fontaine A

8:00 a.m. – 11:30 a.m.

Vascular Lecture and Workshop

Pointe-aux-Trembles

Speaker: **Leonardo Faundez, MA-Ed, BSc, RTNM, RDMS, RVT, CRGS, CRVS**

The Michener Institute for Applied Health Sciences
Toronto, ON

This session will focus on carotid ultrasound such as anatomy, indications, normal ultrasound and abnormal ultrasound as well as upper extremity arteries.

This program is being delivered in partnership with Medical Imaging Ed.



8:00 a.m. – 10:00 a.m.

Tips & Tricks: Imaging Techniques for Siemens ACUSON Products

Fontaine D

Speaker: **Victoria Thompson**
Siemens Canada Limited
Oakville, ON

In this session, various techniques and tips on how to adjust system settings to improve image quality and use the unit to its full potential will be reviewed.



X-Ray

Fontaine C

Saturday, October 25, 2014

7:00 a.m. – 8:15 a.m.

Breakfast & Expo

Westmount/Outremont

9:00 a.m. – 9:30 a.m.

XP1 = 0.5

What's New from the X-Ray Product Team

Speaker: **Scott-Earl Northrup**

Siemens AG

Erlangen, Germany

Siemens AG is a Research and Development powerhouse. Learn how Siemens assesses new product ideas and develops x-ray platforms for today and tomorrow. This session will cover a variety of imaging areas, such as Radiography, Fluoroscopy, Surgical C-arms, Mammography and Mobiles.

9:30 a.m. – 10:00 a.m.

XP2 = 0.5

Implants and Devices – What Imaging Needs to See

Speaker: **Scott Kadwell**

RSK Medical Inc.

Oakville, ON

Minimally invasive surgery is growing in both application and complexity. Imaging control is needed to visualize medical devices used, for example in electrophysiology, neuro and vascular procedures. Surgical C-arms have a role to play here which will impact general duty radiographers scope of work.

10:00 a.m. – 10:30 a.m.

XP3 = 0.5

Spine Surgery – Navigation & 3D Imaging

Speaker: **Aidan Thompson, PhD**

Stryker Inc.

Toronto, ON

X-ray imaging and surgery are often required to work hand in hand to produce optimal outcomes. This session will explore the Stryker Navigation system that can help surgeons to guide their instruments for more precise screw placement, assist in advanced MIS procedures, and reduce fluoro exposure to both surgeon and patient. Combining 3D X-ray images and this Navigation system enhances both precision and workflow in the OR.

10:30 a.m. – 11:00 a.m.

Refreshment Break

Foyer

11:00 a.m. – 11:30 a.m.

XP4 = 0.5

Radiation Safety: Exposure Factors & Challenges with DR

Speaker: **Michelle Cottreau, MSc.**

Health PEI

Charlottetown, PE

Take this opportunity to explore a refresher on Medical Radiation Safety guidelines. Learn how ionizing radiation dose levels have changed over time as we evolved to Digital Radiography of today. We will look at what indicators the Radiography Technologist should consider when evaluating image quality and exposure factors.

11:30 a.m. – 12:00 p.m.

XP5 = 0.5

Ysio and Luminos – Fine Tuning TechniquesSpeaker: **Peter Vidic**Siemens Canada Limited
Vancouver, BC

This session will discuss image quality and those parameters that affect it. Topics including Diamond View, LUT, Edge Enhancement, Noise Reduction, Grid Usage, Window vs. Amplification, Collimation vs. Cropping are reviewed to assist Technologists in adjusting parameters that affect final image quality.

12:00 p.m. – 1:00 p.m.**Lunch & Expo**

Westmount/Outremont

1:00 p.m. – 2:00 p.m.

XP6 = 1.0

Hands-on Session: Mobile DR and C-ArmSpeaker: **Peter Vidic**Siemens Canada Limited
Vancouver, BC

Take the opportunity to see Siemens latest Mobile and Surgical C-Arm technologies. A short product presentation overview followed by hands-on session will allow attendees to see the evolution of these systems.

2:00 p.m. – 3:15 p.m.

XP7 = 1.5

Women's Health – Evaluating Breast DensitySpeaker: **Mohamed Abdoell**Densitas Inc.
Halifax, NS

Breast cancer risk increases with increasing mammographic density. Legislation enacted across much of the US mandates that women be informed of their density. But visually assessed density is subjective and not reproducible. A fully automated method for measuring density solves this problem, and research validates that these measures are associated with breast cancer risk.

3:15 p.m. – 3:30 p.m.**Refreshment Break**

Foyer

**3:30 p.m. – 4:15 p.m.**

XP8 = 0.75

From CR to DR: The Impact on Mammography Service Quality (French)Speaker: **Fabienne Marceau**Hôpital Honoré-Mercier
Saint-Hyacinthe, QC

What should we expect when moving from a CR to a DR mammography system? The head of medical imaging at the Richelieu-Yamaska CSSS will offer you the benefit of their experience by reviewing the changes that were experienced by their staff, clients and radiologists.

4:15 p.m. – 5:00 p.m.

XP9 = 0.75

Rad Room Automation – A Case Study with Ysio DR (French)Speakers: **Renelle Cote and Nancy Blouin**Hôpital Ste. Croix
Drummondville, QC

From the perspective of Hôpital Ste. Croix, learn about their experiences and advantages of working with the Ysio Fully Automated 2 Detector DR system. Video highlights and discussion of implementation and the benefits that the department realized.



Join us at the Expo!

Westmount/Outremont

Saturday, October 25, 2014

7:00 a.m. – 8:00 a.m. (during breakfast)

12:00 p.m. – 1:00 p.m. (during lunch)

This year's Expo will showcase options and upgrades, innovative services, education and training, ultrasound innovations for improved outcomes, our next generation automation solution for laboratory diagnostics, *syngo.via*, and the most recent in mobile DR and surgical C-Arm.

Visit each exhibit and be eligible to win a prize!

The first fifteen (15) customers who present the Siemens representative located at the symposium registration desk with a completed passport will be presented with a Siemens branded giveaway of nominal value.

If you have any questions, please contact us at:
customeradvocate.ca@siemens.com

Customer Development

Presented by: **Adrien Leduc**
 Siemens Canada Limited
 Oakville, ON

Customer Development allows you to keep pace with innovations, with upgrades and options, maintaining your system at the state-of-the-art, during the entire life cycle.

Learn how:

- To keep pace with the latest MRI technology and benefit from an extensive range of new coils and software
- Stellar detectors bring you the right dose for all patients
- IQ•SPECT delivers high quality and fast 4 minutes Cardiac scan

syngo

Presented by: **Kevin Buchanan**
 Siemens Canada Limited
 Oakville, ON

syngo.via – Get the full picture.

The *syngo.via* 3D routine and advanced reading solution helps to accelerate workflows across all modalities, and is perfect for both day-to-day and more challenging cases.

With *syngo.via*, you don't just read images – you get the full picture.

Efficient. Flexible. Intelligent.

X-Ray Products

Presented by: **Richard Newman**
 Siemens Canada Limited
 Oakville, ON

Visit the X-ray exhibit to see the most recent in mobile DR and surgical C-Arm including the latest detector technology with high image quality at low dose – MAX wi-D and MAX mini detectors.

Education & Training

Presented by: **Maxine Badawi**
Siemens Canada Limited
Oakville, ON

Are you ready for more?

Lifelong learning – For best-in-class medical care.

Working closely with you, we develop your personalized education and consulting strategy, and support you and your staff with our comprehensive User Services to help you gain:

More: Routine confidence.

More: Clinical expertise.

More: Superior performance.

In a more: personalized way

Because we are closer. Closer to technology.

And closer to you.

Ultrasound

Presented by: **Benoit Sai**
Siemens Canada Limited
Oakville, ON

With Siemens' pioneering ultrasound technologies, your patients can depend on you to provide accurate diagnoses and help them to make the best decisions for their care.

Come see the latest Siemens ACUSON Innovations.

- HELX Evolution, ACUSON S Family Ultrasound Systems introducing the HD Image technology
- Present Smart – Future Ready
- Advanced Volume Imaging capabilities for Breast and Cardiac Care
- The future of Ultrasound today

Customer Services

Presented by: **Yves Mainville**
Siemens Canada Limited
Oakville, ON

At Siemens Healthcare Customer Services, we are with you every step of the way. Wherever and whenever you need us. Supporting you with a complete range of innovative services. Services that you can rely on.

- **Siemens Guardian Program™** – Proactive real-time remote monitoring for deviations from current norms
- **Siemens Utilization Management** – System specific usage data that enables you to leverage your system's full potential
- **Siemens Virus Protection** – Top-level defense in safeguarding our medical systems against viruses of every kind
- **Siemens Remote Service** – Efficient and comprehensive infrastructure for the complete spectrum of remote support
- **syngo Remote Assist** – Real-time image quality assessment, protocol optimization and workflow enhancements

Laboratory Diagnostics

Presented by: **Matt Coughlin**
Siemens Canada Limited
Vancouver, BC

Aptio™ Automation is our next generation automation solution – a single track platform covering the broad automation needs of clinical laboratories.

Learn about:

- Adaptability
- Peak performance
- Intelligent technology
- Workflow expertise

On behalf of Siemens Canada,
thank you for attending the
Innovations Symposium 2014.

We look forward to seeing you
again next year.

Mark your calendar:

October 23–25, 2015

Toronto, ON

Unless explicitly stated, Siemens Canada Limited
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Healthcare

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