

12th/12^{ième} International(e)



Séminaire
Winter Arrhythmia
School

*Annual Cardiac Arrhythmia Meeting
Division of Cardiology, University of Toronto*

February 6-8th, 2015
Blue Mountain, Ontario, Canada

www.winterarrhythmia.com



UNIVERSITY OF TORONTO
FACULTY OF MEDICINE



 **Sunnybrook**
SCHULICH HEART CENTRE

Canadian
Heart Rhythm
Society 
société canadienne
de rythmologie



Women's College Hospital

Dear Colleagues,

I would like to welcome you to our 12th Annual International Winter Arrhythmia School.

This year the program will be extending its scope to address increasing interest from various medical professionals.

In addition to our traditional streams, multiple sessions will be focused on new trends in arrhythmia invasive and non-invasive management for cardiologists, electrophysiologists, EP fellows and allied professionals; there will also be an intense and (as usual) cross platform training in device management.

We plan to introduce multiple small group workshops including 3 levels of ECG telemetry, ECG/Holter monitoring reads, ECG workshops on arrhythmia recognition and medical treatment monitoring using ECG and workshops on ultrasound guided vascular access for medical practitioners.

We will be introducing three excellent sessions for family doctors with focus on arrhythmia patient management, ECG interpretation and day to day issues of patients with implanted devices.

We are planning to continue our new successful addition of workshops designed especially for nurses, EP technicians, and allied professionals, as well as an instructional workshop designed for EP fellows. We deploy world-class faculty to engage in discussions and expect, as always, fierce educational argument.

We welcome you to learn and enjoy at one of the most prestigious ski resorts in the country.

Sincerely,

Eugene Crystal MD, FRCP(C)

Founder and Chair, International Winter Arrhythmia School

Director, Arrhythmia Services, Sunnybrook Health Sciences Centre

Associate Professor, University of Toronto



School's Founder and Chair

Dr. Eugene Crystal

Educational Program Chair

Dr. Ilan Lashevsky

CME Accreditation: University of Toronto

Royal College of Physicians and Surgeons of Canada – Section 1

This event is an Accredited Group Learning Activity (Section 1) as defined by the Maintenance of Certification Program of the Royal College of Physicians and Surgeons of Canada, approved by Continuing Professional Development, Faculty of Medicine, University of Toronto up to a maximum of (17.5 hours)

The College of Family Physicians of Canada – Mainpro M1

This program meets the accreditation criteria of The College of Family Physicians of Canada and has been accredited by Continuing Professional Development, Faculty of Medicine, University of Toronto, for up to 4 Mainpro-M1 credits.

The American Medical Association - AMA PRA Category 1

Through an agreement between the Royal College of Physicians and Surgeons of Canada and the American Medical Association, physicians may convert Royal College MOC credits to AMA PRA Category 1 CreditsTM. Information on the process to convert Royal College MOC credit to AMA credit can be found at www.ama-assn.org/go/internationalcme.

Hosting Faculty

Dr. Eugene Crystal, Chair, Toronto, ON
Dr. Ilan Lashevsky, Chair, Toronto, ON
Dr. Claudia Bucci, Toronto, ON
Dr. Edgar Hockmann, Toronto, ON
Dr. Darren Kagal, Toronto, ON
Dr. Bruce Lubelsky, Toronto, ON
Dr. David Newman, Toronto, ON
Dr. Mohammed Shurrab, Toronto, ON
Dr. Bradley Strauss, Toronto, ON
Dr. Irving Tiong, Toronto, ON
Suzette Turner, NP, Toronto, ON

International Faculty

Dr. David Burkhardt, Austin, USA
Dr. Martin C. Burke, Chicago, USA
Dr. Fermin C. Garcia, Philadelphia, USA
Dr. Lior Gepstein, Haifa, Israel
Dr. Hamid Ghanbari, Ann Arbor, USA
Dr. Gregory Golovchiner, Petah Tikva, Israel
Dr. Hiroshi Nakagawa, Oklahoma City, USA
Dr. William Spear, Oak Lawn, USA
Dr. Tamas Szili-Torok, Rotterdam, Netherlands

Scientific Planning Committee

Dr. Ilan Lashevsky, Chair, Toronto, ON
Dr. Viola Antao, MD, CCFP, MHSc, FCFP, Toronto, ON
Dr. John Axler, MD, CCFP, Toronto, ON
Faustina Boampong, NP, Toronto, ON
Debra Campbell, RN, Kingston, ON
Dr. Sharon Domb, Toronto, Ontario
Dr. Juan Duero Posada, Resident, Toronto, ON
Dr. Darren Kagal, Toronto, ON
Dr. Mohammed Shurrab, EP fellow, Toronto, ON
Dr. Irving Tiong, Toronto, ON
Suzette Turner, NP, Toronto, ON

National Faculty

Dr. Guy Amit, Hamilton, ON
Dr. Sean Balmain, Toronto, ON
Dr. Brian Baker, Toronto, ON
Dr. Adrian Baranchuk, Kingston, ON
Dr. Sacha Bhatia, Toronto, ON
Dr. David Birnie, Ottawa, ON
Debra Campbell, RN, Kingston, ON
Dr. Sharon Domb, Toronto, ON
Dr. Michael Hartleib, Peterborough, ON
Dr. Jeff Healey, Hamilton, ON
Dr. Amir Janmohamed, Toronto, ON
Dr. Peter Leong-Sit, London, ON
Dr. Bhavanesh Makarjee, Toronto, ON
Dr. Carlos Morillo, Hamilton, ON
Dr. Grish M. Nair, Ottawa, ON
Dr. Pablo Nery, Ottawa, ON
Dr. Douglas Ng, Toronto, ON
Dr. Vladislav Ovchinnikov, Toronto, ON
Dr. Arnold Pinter, Toronto, ON
Dr. Kieran Quinn, Kingston, ON
Dr. Sherryn Rambihar, Toronto, ON
Dr. James Swan, Toronto, ON
Dr. Anthony Tang, London, ON
Dr. Derek Yung, Toronto, ON



Coffee served during break



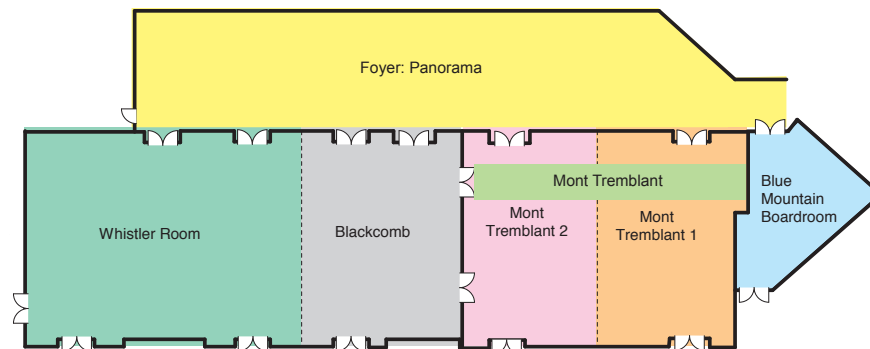
Food served during break

Contact Information:




Seddigheh Baktash 416.826.0524
Banafsheh Arouny 647.969.5034




Session rooms indicated by colour (please see below)

Blackcomb Room	Whistler Room
Foyer: Panorama	Mont Tremblant 1
Blue Mountain Boardroom	Mont Tremblant 2
	Mont Tremblant



Friday February 6th, 2015

9:00 AM Registration (open all day)			
Time	Topic	Speaker	Chair
10:00 AM - 11:10 AM	Opening Remarks	Dr. E. Crystal	
	ECG Workshop	Dr. A. Baranchuk Dr. K. Quinn	Dr. A. Baranchuk
11:10 AM	Break 		
11:25 AM - 12:25 PM	ECG in Cardiac Devices	Dr. A. Pinter	Dr. S. Balmain
12:25 PM	Break		
 CHOOSING WISELY (lunch served during this session) <i>Restricted to cardiology residents and fellows</i>			
12:40 PM - 1:40 PM	How to Become a Successful Researcher in Cardiology	Dr. A. Tang	Dr. B. Strauss & Dr. J. Swan
	How to Be Successful in Community Cardiology	Dr. M. Hartleib	
1:40 PM	Break		
1:55 PM - 2:55 PM	Telemetry Workshop (level 3)	Dr. I. Tiong	Dr. I. Tiong
		Dr. D. Kagal	
2:55 PM	Break 		
3:10 PM - 4:40 PM	Ultrasound Guided Vascular Access Hands-on Workshop	Dr. E. Hockmann	
4:40 PM	Break		
4:55 PM - 5:55 PM	Challenging Arrhythmia Cases	Dr. D. Ng & Dr. A. Janmohamed & Dr. B. Makanjee	Dr. A. Janmohamed
6:00 PM	Break		
6:15 PM - 7:00 PM	Myths and Facts: A Discussion of MRI Imaging for Pacemaker and ICD Patients	M. Reitzel	Dr. Tiong

9:00 AM Registration (open all day)			
Time	Topic	Speaker	Chair
10:00 AM - 11:10 AM	Telemetry Workshop (level 1)	Dr. I. Tiong	Dr. I. Tiong
		Dr. D. Kagal	
11:10 AM	Break 		
11:25 AM - 12:25 PM	Telemetry Workshop (level 2)	Dr. D. Kagal	Dr. D. Kagal
		Dr. I. Tiong	
12:25 PM	Break		
 CARDIAC RESYNCHRONIZATION THERAPY (lunch served during this session)			
12:40 PM - 1:40 PM	ECG in Cardiac Resynchronization Therapy	Dr. S. Balmain	Dr. D. Birnie
	Cardiac Resynchronization Therapy in Non-responders, How to Maximize the Benefit	Dr. D. Birnie	
1:40 PM	Break		
SUBCUTANEOUS ICD HANDS-ON WORKSHOP			
<i>Integrating the S-ICD™ System into Your Clinical Practice</i>			
1:55 PM - 2:55 PM	<ul style="list-style-type: none"> Clinical Evidence (safety and efficacy) Patient Selection 	Dr. M. C. Burke	Dr. J. Healey & Dr. E. Crystal
		Break 	
<i>Implementing the S-ICD™ System in Your Clinical Practice</i>			
3:10 PM - 4:30 PM	<ul style="list-style-type: none"> Safe and Effective S-ICD® System Implant Procedures Safe and Effective Follow-up Patient Management 	Dr. M. C. Burke	Dr. J. Healey
		Break	
<i>S-ICD® System Breakout Sessions</i> Limited to physicians and scrub-in RNs and PAs			
4:30 PM - 6:15 PM	<ul style="list-style-type: none"> Implant Procedure Prep/Drape/Tunneling/Induction Patient ECG Screening/Case Scenario Troubleshooting 	Dr. M. C. Burke	Dr. J. Healey
		Break	

Family Physicians Stream

Friday February 6th, 2015

Family Physicians Stream

ECG WORKSHOP

Time	Topic	Speaker	Chair
5:30 PM - 5:55 PM	ECG in Patient with Episodic Palpitations (what to look for)	Dr. E. Crystal	Dr. E. Crystal
5:55 PM - 6:20 PM	How Cardiac and Non-Cardiac Medications Affect ECG and Why is it Important?	Dr. I. Lashevsky	
6:20 PM - 6:45 PM	What ECG Abnormalities Need Urgent Workup?	Dr. I. Lashevsky	

Saturday February 7th, 2015

Family Physicians Stream

RECOGNITION AND MANAGEMENT OF COMMON ARRHYTHMIAS (PART 1)

Time	Topic	Speaker	Chair
1:30 PM - 1:55 PM	Caring for Patients with Arrhythmia/ Implantable Cardiac Devices: Driving, Flying, and Sport Issues	Dr. M. Shurrab	Dr. I. Lashevsky & Dr. S. Domb
1:55 PM - 2:20 PM	Atrial Fibrillation: Indications for Anticoagulation Therapy	Dr. M. Shurrab	
2:20 PM	Break		

RECOGNITION AND MANAGEMENT OF COMMON ARRHYTHMIAS (PART 2)

2:35 PM - 3:00 PM	Atrial Fibrillation: Rate Control Versus Rhythm Control, When And Why?	Dr. E. Crystal	Dr. E. Crystal & Dr. S. Domb
3:00 PM - 3:25 PM	New Oral Anticoagulants – What You Need to Know	Dr. C. Bucci	
3:25 PM	Break		

SPECIAL ISSUES IN ARRHYTHMIA PATIENTS IN YOUR PRACTICE

3:40 PM - 4:05 PM	Post Traumatic Stress in the Cardiac Patient	Dr. B. Baker	Dr. I. Lashevsky & Dr. E. Crystal
4:05 PM - 4:30 PM	Syncope	Dr. D. Birnie	
4:30 PM	Closing Remarks		Dr. E. Crystal

Saturday February 7th, 2015

Resident's Stream

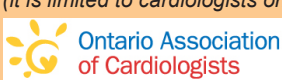


9:00 AM - 10:00 AM	Pilot of an Educational Echocardiography Simulator Intervention for Cardiology Trainees	Dr. S.Rambihar

Saturday February 7th, 2015


Device Stream

Time	Topic	Speaker	Chair
7:00 AM - 8:00 AM	Breakfast		
8:15 AM - 8:45 AM	ECG Workshop	Dr. A. Baranchuk & Dr. K. Quinn	Dr. A. Baranchuk
8:45 AM	Break		
9:00 AM - 9:45 AM	Pacemaker Troubleshooting (case-based)	Dr. B. Makanjee & Dr. D. Ng	Dr. I. Tiong
9:45 AM	Break		
10:00 AM - 10:50 AM	ICD Troubleshooting (case-based)	Dr. A. Janmohamed & Dr. A. Pinter	Dr. A. Pinter
10:50 AM	Break		
IMPLANTABLE DEFIBRILLATOR MANAGEMENT (PART 1)			
11:05 AM - 11:20 AM	Post Implantation Wound Care	S. Turner	D. Campbell
11:20 AM - 11:35 AM	The Usefulness of Peak Plasma Blade During Device Box Changes and Lead Extractions The Erasmus Experience	Dr. T. Szili-Torok	
11:35 AM - 11:50 AM	Magnet Application on "CIEDs"	Dr. D. Yung	
11:50 AM	Lunch		
IMPLANTABLE DEFIBRILLATOR MANAGEMENT (PART 2)			
1:15 PM - 1:40 PM	Post Implantable Defibrillator Shock Psychology Counselling	Dr. B. Baker	Dr. A. Tang
1:40 PM - 2:05 PM	Family Issues With Defibrillator	Dr. D. Newman	
2:05 PM	Break		
SPECIAL ISSUES IN DEVICES			
2:20 PM - 2:45 PM	Device Management in Pregnancy	Dr. S. Balmain	Dr. A. Tang
2:45 PM - 3:10 PM	Managing Cardiac Devices at End of Life: Our Clinic's Role in Proactive Care	D. Campbell	
3:10 PM - 3:35 PM	Radiation Protocol/Radiation Therapy	Dr. H. Ghanbari	
3:35 PM	Break		


Saturday February 7th, 2015

Time	Topic	Speaker	Chair
7:00 AM - 8:00 AM	Ontario Association of Cardiologists Workshop <i>(it is limited to cardiologists only)</i> 	Dr. J. Swan	Dr. B. Lubelsky
Electrophysiology Stream			
7:00 AM - 8:00 AM	Breakfast 		
ABLATING THERAPIES IN VT/VF			
8:30 AM - 8:55 AM	Substrate Mapping Techniques and Technologies	Dr. D. Burkhardt	Dr. F. Garcia & Dr. D. Burkhardt
8:55 AM - 9:20 AM	VT in Dilated CMP	Dr. F. Garcia	
9:20 AM - 9:45 AM	Indications for PVC Ablation	Dr. G. Nair	
9:45 AM	Break		
10:00 AM - 10:25 AM	Idiopathic VT Difficult Anatomy	Dr. F. Garcia	Dr. F. Garcia & Dr. D. Burkhardt
10:25 AM - 10:50 AM	Ablation in Inflammatory Cardiomyopathies	Dr. P. Nery	
10:50 AM	Break		
ABLATING THERAPIES FOR ATRIAL FIBRILLATION (PART 1)			
11:05 AM - 11:30 AM	What is the Strategy of Ablation After STAR AF Trial	Dr. G. Amit	Dr. C. Morillo & Dr. E. Crystal
11:30 AM - 11:55 AM	Contact force Catheter Role in AF ablation	Dr. H. Nakagawa	
11:55 AM	Break		
ARRHYTHMIA ISSUES IN GENERAL CARDIOLOGY (PART 1) <i>(lunch served during this session)</i>			
12:10 PM - 12:35 PM	History Taking in Patients with Arrhythmia	Dr. D. Newman	Dr. I. Lashevsky & Dr. B. Lubelsky
12:35 PM - 1:00 PM	Role of Stress Test in Arrhythmia Management	Dr. J. Healey	
ABLATING THERAPIES FOR ATRIAL FIBRILLATION (PART 2)			
1:15 PM - 1:40 PM	Drugs vs PVI, as First Line of Therapy	Dr. C. Morillo	Dr. H. Nakagawa & Dr. G. Amit
1:40 PM - 2:05 PM	Cryotherapy for PVI	Dr. G. Golovchiner	
2:05 PM	Break		
ARRHYTHMIA ISSUES IN GENERAL CARDIOLOGY (PART 2)			
2:20 PM - 2:45 PM	Cardioversion and Anticoagulation	Dr. C. Morillo	Dr. P. Leong-Sit & Dr. V. Ovchinnikov
2:45 PM - 3:10 PM	Syncope: State of the Art	Dr. D. Birnie	
3:10 PM	Break 		

Saturday February 7th, 2015 Continued

Time	Topic	Speaker	Chair
ROBOTICS IN ELECTROPHYSIOLOGY			
3:25 PM - 3:50 PM	Robotics in Ablation of Atrial Fibrillation	Dr. W. Spear	Dr. D. Burkhardt & Dr. H. Nakagawa
3:50 PM - 4:15 PM	Robotics for Failed Manual Procedures: When to Consider	Dr. H. Nakagawa	
4:15 PM - 4:40 PM	Robotics for Idiopathic VTs	Dr. T. Szili-Torok	
4:40 PM	Break		
4:55 PM - 5:20 PM	Robotics for Ischemic/structural VTs: Practical Tips and Tricks	Dr. D. Burkhardt	Dr. T. Szili-Torok
5:20 PM - 5:45 PM	V-drive: Benefits and Challenges From User Perspective	Dr. W. Spear	
5:45 PM	Break		
7:30 PM Gala Dinner			
5:45 PM - 7:05 PM	GUIDED POSTER PRESENTATION (light refreshments provided) For more details, please see next page		

Sunday February 8th, 2015

Electrophysiology Stream			
Time	Topic	Speaker	Chair
6:45 AM - 8:00 AM	Breakfast 		
6:45 AM - 8:00 AM	Ontario Electrophysiologists Ohp Billing Workshop	Dr. A. Tang & Dr. E. Crystal	Dr. J. Swan
8:00 AM - 8:15 AM	Best Posters Announcement	Dr. I. Lashevsky & Dr. E. Crystal	
8:15 AM - 8:50 AM	Duelling "PVI vs. Pace and Ablate"	Dr. G. Nair & Dr. J. Healey	Dr. B. Lubelsky
8:50 AM - 9:25 AM	Duelling "Antiarrhythmic vs. Ablation of VT"	Dr. H. Ghanbari & Dr. D. Burkhardt	Dr. J. Healey
9:25 AM - 10:00 AM	Duelling "We Monitor Patients Too Much vs. Too Little"	Dr. S. Bhatia & Dr. D. Newman	Dr. E. Crystal
10:00 AM	Closing Remarks	Dr. E. Crystal	
10:30 AM - 11:10 AM	2014 CCS Guidelines for Stroke Prevention of Atrial Fibrillation: The Debate Continues	Dr. M. Shurrab	
11:10 AM - 11:50 AM	Cryptogenic Stroke: Bringing the Noise to Silent AF	Dr. C. Morillo	Dr. E. Crystal
11:50 AM - 12:30 PM	Intracardiac Echo - ICE, AcuNav	Dr. E. Camus	

Saturday February 7th, 2015

Guided Poster Presentation 1 (light refreshments provided)		Chaired by Dr. E. Crystal & Dr. Nakagawa
Time	Title of Presentation	Presenter
5:45 PM - 5:55 PM	Comparative Study of Robotic Catheter Ablation and Manual Catheter Ablation in the Treatment of Atrial Fibrillation: A Single Center Experience	A. Kocheril
5:55 PM - 6:05 PM	Feasibility and Safety of Using Mechanic and Magnetic Robotic Systems for EGM - Guided AF Ablation with Near Zero Radiation	A. Yagishita
6:05 PM - 6:15 PM	Remote Magnetic Navigation Versus Manually Controlled Catheter Ablation of Right Ventricular Outflow Tract Ventricular Arrhythmias: A Retrospective Single Center Experience	A. Shauer
6:15 PM - 6:25 PM	Vurtigo, a Visualization Platform for MR - Guided EP Interventions	L. Biswas
6:25 PM - 6:35 PM	Acute and Long Term Safety of a Novel 'Flexitip' Irrigation Catheter in Catheter Ablation of Paroxysmal and Persistent Atrial Fibrillation	F. Sadiq Ali
6:35 PM - 6:45 PM	Intrinsic Magnetic Resonance Characterization of Acute Ventricular RF Ablation Lesions	P. Krahn

Guided Poster Presentation 2 (light refreshments provided)		Chaired by Dr. Birnie & Dr. Ng
Time	Title of Presentation	Presenter
5:45 PM - 5:55 PM	Advanced Interatrial Block Predicts New Onset Atrial Fibrillation in Patients with Severe Heart Failure and Cardiac Resynchronization Therapy	F. Sadiq Ali
5:55 PM - 6:05 PM	Obstructive Sleep Apnea as a Predictor of Post Coronary Artery Bypass Graft Atrial Fibrillation: A Systematic Review and Meta-analysis	A. Qaddoura
6:05 PM - 6:15 PM	Antiarrhythmic Therapy Post-Ablation to Reduce Atrial Fibrillation Recurrence: A Meta-Analysis	G. Goldenberg
6:15 PM - 6:25 PM	Real World Usage of Direct Oral Anticoagulants in Patients Undergoing Electrical Cardioversion	A. Carrizo
6:25 PM - 6:35 PM	Continuous Quality Assurance Process in Invasive Cardiac Electrophysiology: A Pilot Project	B. Arouny
6:35 PM - 6:45 PM	Expert Physicians Cannot Distinguish the ECG Pattern of Brugada Syndrome from that of Brugada Phenocopies	B. Gottschalk

Saturday February 7th, 2015 Continued

Guided Poster Presentation 3 (light refreshments provided)		Chaired by Dr. H. Ghanbari & Dr. A. Tang
Time	Title of Presentation	Presenter
5:45 PM - 5:55 PM	Performing Magnetic Resonance Imaging in Patients with Conditional Cardiac Devices: A Collaborative Protocol to Mitigate Risk	D. Campbell
5:55 PM - 6:05 PM	Cardiovascular Implantable Electronic Device Infection - From Prevention to Treatment	S. Turner
6:05 PM - 6:15 PM	Cardiac Rhythm Devices and End of Life Care: Development of an Educational Tool for Nurse Educators and Interprofessionals	C. Blakely

For full abstract information, go to <http://winterarrhythmia.com>

Notes:

**Thank you for attending the
12th International
Winter Arrhythmia School
See you next year**

**The Winter Arrhythmia School
has been made possible by
unrestricted educational grants from:**



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Annual Cardiac Arrhythmia Meeting
Division of Cardiology, University of Toronto