

OCTOBER 4-7, 2008

THE WESTIN GASLAMP QUARTER

SAN DIEGO, CALIFORNIA



**NEW  
FORMAT**

# 2008 Advanced Ablation Course: Simplifying Complex Ablation with New Physiology-Based Techniques

## COURSE DIRECTORS

Douglas L. Packer, MD, FHRS | William G. Stevenson, MD, FHRS  
David J. Wilber, MD

**REGISTER ONLINE** at [www.HRsonline.org](http://www.HRsonline.org)

**EARLY REGISTRATION SPECIAL** Register by September 5, 2008 and receive an additional **\$100 OFF** registration fees!



Heart Rhythm Society<sup>SM</sup>  
Restoring the Rhythm of Life



**The 2008 Advanced Ablation Course's NEW format provides a comprehensive approach to understanding ablation techniques. The improved program includes:**

- ▶ Multimodality approach with in-depth presentations integrating both didactic reviews and interactive discussion
- ▶ Key techniques, applications of new technology, and solutions to both common and rare clinical scenarios
- ▶ Course environment that allows personal one-on-one interaction with world-renowned faculty
- ▶ Case-based presentations to help practitioners relate faculty experience to their own procedures
- ▶ Automated Audience Response System (ARS) presents decision-making scenarios and provides immediate feedback
- ▶ In-depth discussions outlining the concepts and technical approaches of complex arrhythmias, such as scar-related atrial flutters and ventricular tachycardias
- ▶ Case-based presentations and in-depth discussions on specific techniques and technologies address the issues surrounding the evolving field of multimodality ablation for atrial fibrillation.
- ▶ Opportunities to learn from the experiences of expert faculty and be able apply these skills to your practice

## COURSE DESCRIPTION

This course will teach you to simplify complex ablations with new physiology-based techniques. Through case-based presentations the practitioner can relate the experience of the faculty to his or her own procedures and learn techniques to facilitate rapid diagnosis and ablation of common complex arrhythmias in their demanding practice. Participants are encouraged to bring case presentations of their own for discussion and review.

A Fundamentals of Ablation Pre-Course will start at 1:30 p.m. on Saturday, October 4, 2008. The pre-course, included with course registration, reviews the fundamentals of EP laboratory diagnosis and electrogram interpretation needed to understand the advanced topics covered during the course. Participants in the early stages of their career and those in need of an update are encouraged to attend.

## COURSE HIGHLIGHTS

- ▶ **NEW THIS YEAR!** Breakout sessions offer basic to advanced levels of study and facilitate individual participant learning needs
- ▶ Techniques to assist in rapid diagnosis and ablation of common complex arrhythmias in a busy EP practice
- ▶ Video presentations of ablation procedures will highlight key techniques, applications of new technology, and solutions to both common and rare clinical scenarios.
- ▶ Specific state-of-the-art techniques for evaluating, mapping, and ablating complicated arrhythmias
- ▶ Critical anatomy relevant to ablation: what every practitioner must know
- ▶ Phantoms for use in early robotics interventions
- ▶ Electroanatomic, non-contact, impedance-based and ultrasound-imaging applications for guiding mapping techniques
- ▶ Radiofrequency ultrasound, laser, cryo, and microwave energy sources and their use in ablation
- ▶ Biophysics of ablation, including techniques for optimizing RF ablation with irrigated and large-tip electrodes and cryoablation

## THIS COURSE IS OF INTEREST TO:

- Electrophysiologists
- Technologists
- Electrophysiology Fellows
- Physicians Assistants
- Cardiologists
- Nurses/Nurse Practitioners
- Cardiac Surgeons

## COURSE DIRECTORS

### **Douglas L. Packer, MD, FHRS**

Professor of Medicine, Mayo Clinic College of Medicine, Rochester, MN

### **William G. Stevenson, MD, FHRS**

Professor of Medicine, Harvard Medical School, Cardiovascular Division, Brigham & Women's Hospital, Boston, MA

### **David J. Wilber, MD**

Professor of Medicine, Director of Cardiology, Loyola University Medical Center, Maywood, IL

## DISTINGUISHED FACULTY

### **Joseph G. Akar, MD, PhD**

Assistant Professor of Medicine, Cardiology, Loyola University Health System, Maywood, IL

### **David G. Callans, MD, FHRS**

Director, Electrophysiology Laboratory, Professor of Medicine, Hospital of The University of Pennsylvania, Philadelphia, PA

### **Samuel J. Asirvatham, MD**

Associate Professor of Medicine, Mayo Clinic, Rochester, MN

### **Sen Yen Ho, PhD, FRCPath, FESC**

Head of Cardiac Morphology, National Heart & Lung Institute, Imperial College and Royal Brompton Hospital, London, UK

### **Warren M. Jackman, MD, FHRS**

Professor of Medicine, Cardiovascular Section, University of Oklahoma Health Science Center, Oklahoma City, OK

### **Gregory F. Michaud, MD, FHRS**

Director, Center for Advanced Management of Atrial Fibrillation, Brigham and Women's Hospital, Boston, MA



## PROGRAM FORMAT

The program has been designed for maximum clinical applicability.

**NEW**

- **Breakout Sessions:** Based on the participant's level of experience smaller group sessions are available from basic to advanced levels, allowing for one-on-one interaction with faculty. These sessions are held Monday and Tuesday afternoon.

**NEW**

- **Web-Based Course Materials:** Participants should bring their own laptops to the course. Course presentations can be viewed and downloaded to one's laptop. Hand-outs will not be distributed.
- **General Sessions:** Didactic presentations will bring together the many concepts needed for successful ablation.
- **Automated Audience Response System (ARS):** Places the attendee in the middle of decision-making scenarios and provides immediate feedback on their decision making.

## LEARNING OBJECTIVES

Upon completion of this educational activity, participants will be able to:

- ▶ Recognize the mechanisms underlying cardiac arrhythmias amenable to ablation:
  - Supraventricular tachycardias
  - Complex atrial flutters
  - Atrial fibrillation
  - Ventricular tachycardias
- ▶ Distinguish both normal and abnormal cardiac anatomy and its role in the genesis of arrhythmias and ablation strategy
- ▶ Select optimal mapping and ablation techniques for specific arrhythmias and clinical circumstances
- ▶ Identify and minimize the major risks associated with ablation
- ▶ Assess the value and limitations of high-end technology in the ablation process
- ▶ Understand the role for techniques of image-mapping integration in treating cardiac arrhythmias
- ▶ Identify the best ablative energy source for specific cardiac arrhythmias and understand the underlying mechanism of action

# 2008 Advanced Ablation Course:

## Simplifying Complex Ablation with New Physiology-Based Techniques

Note: Presentation and Faculty subject to change

### Saturday, October 4 Fundamentals of Ablation Pre-Course: The Appetizers

- 1:30-1:35 p.m. Welcome and Introduction *Douglas L. Packer, MD, FHRS*
- 1:35-2:00 p.m. The Basic SVT Evaluation: Setting Up the Ablation *William G. Stevenson, MD, FHRS*
- 2:00-2:30 p.m. Fundamentals of WPW Ablation: Where It All Started *David J. Wilber, MD*
- 2:30-3:00 p.m. AV Nodal Reentry: The Essentials of Dual Pathway Ablation *Joseph G. Akar, MD, PhD*
- 3:00-3:20 p.m. **BREAK**
- 3:20-3:50 p.m. Atrial Flutter: Conduction Block or Delay? Are You Sure? *Gregory F. Michaud, MD, FHRS*
- 3:50-4:30 p.m. Organized Atrial Arrhythmias: The Basics of Approaching Focal and Reentrant Tachycardias  
*Douglas L. Packer, MD, FHRS*
- 4:30-5:00 p.m. Ablation of Ventricular Tachycardia: Fundamentals of Mapping and Ablation *David J. Callans, MD, FHRS*

### Sunday, October 5 Details of the Approach to Ablation: The Main Course

- 7:00-8:00 a.m. **CONTINENTAL BREAKFAST (Provided)**
- 8:00-8:10 a.m. Welcome and Introduction *Douglas L. Packer, MD, FHRS* Chair: *William G. Stevenson MD, FHRS*
- 8:10-8:40 a.m. Insights From Right Atrial Anatomy: The Context for RA Ablation *S. Yen Ho, PhD, FRCPath, FESC*
- 8:40-9:30 a.m. Case Studies in the Ablation of AVNRT: Approaching Ablation of the Most Complicated Arrhythmia  
*Warren M. Jackman, MD, FHRS*
- 9:30-10:15 a.m. Case Studies in the Ablation of Focal Atrial Tachycardia: Ablating the Ones That Don't Want to be Ablated  
*David J. Callans, MD, FHRS*
- 10:15-10:30 a.m. **BREAK**
- 10:30-11:30 a.m. Case Studies in Ablation of Difficult Accessory Pathways: Finding the Hard-to-Find; Ablating the Impossible  
*Warren M. Jackman, MD, FHRS*
- 11:30 am-12:00 p.m. Atriofascicular Pathways: Mahaim or Mayhem? *Warren M. Jackman, MD, FHRS*
- 12:00-1:00 p.m. **LUNCH (Provided)**
- 1:00-1:45 p.m. Activation and Entrainment Mapping: Where is the Track and is There a Macro or Micro Re-entrant Train on It?  
*William G. Stevenson, MD, FHRS*
- 1:45-2:25 p.m. Case Studies in Ablation of Atrial Flutter in the Setting of Congenital Heart Disease: Surgical Repair Is the Easy Part  
*Douglas L. Packer, MD, FHRS*
- 2:25-3:00 p.m. **BREAK**
- 3:00-5:00 p.m. **Break Out Sessions: The Side Courses**

#### Case-Based Workshops for SVTs: As You Like It!

Patients with Multiple Tachycardias: How to Spot and Ablate Them

- 3:00-3:55 p.m. *David J. Callans, MD, FHRS* ■
- 4:00-5:00 p.m. *William G. Stevenson, MD, FHRS* ◆◆

Dealing With Difficult WPW and AVNRT Cases

- 3:00-3:55 p.m. *David J. Wilber, MD* ■
- 4:00-5:00 p.m. *Warren M. Jackman, MD, FHRS* ◆◆

- 5:00-5:40 p.m. Case Studies in Ablation of Isthmus Dependent Flutter: Dealing with the Chameleon Isthmus  
*Samual J. Asirvatham, MD*

- 5:40-7:00 p.m. Technology Hands-on Session and Reception (Note: CME Not Available for this Activity)

It's The Anatomy Really: How Much Easier Ablation Is Knowing It

- 3:00-3:55 p.m. *Gregory F. Michaud, MD, FHRS* ●
- 4:00-5:00 p.m. *Samual J. Asirvatham, MD* ■

Trans-septal Catheterization

- 3:00-3:55 p.m. *Joseph G. Akar, MD, PhD* ●
- 4:00-5:00 p.m. *Douglas L. Packer, MD, FHRS* ■

**Monday, October 6** Chair: Douglas L. Packer, MD, FHRS

- 7:00-8:00 a.m. CONTINENTAL BREAKFAST (Provided)**
- 8:00-8:30 a.m.** Left Atrial and Pulmonary Vein Anatomy Critical to AF Ablation *S. Yen Ho, PhD, FRCPath, FESC*
- 8:30-9:15 a.m.** Multi-modality Image-Guided AF Ablation: Keys to 3D Mapping, ICE, and CT/MR Intergration and Making Anatomy Work for You *Douglas L. Packer, MD, FHRS*
- 9:15-9:45 a.m.** Ablation of Straight-Forward Trigger-Dependent Paroxysmal AF: Pulmonary Vein Isolation and Identification of Non-PV Foci *Gregory F. Michaud, MD, FHRS*
- 9:45-10:00 a.m. BREAK**
- 10:15-10:40 a.m.** Ablation of Substrate-Mediated Persistent and Chronic AF: What Do You Do After PV Isolation? *Douglas L. Packer, MD, FHRS*
- 10:40-11:20 a.m.** Ablation based on Electrogram Configuration: CAFÉ, Nests and More *David J. Wilber, MD*
- 11:20 am-12:00 p.m.** Cases Studies in Targeting Ganglionated Plexes: Does it Add to Outcomes *Warren M. Jackman, MD, FHRS*
- 12:00-1:00 p.m. LUNCH (Provided)**
- 1:00-1:40 p.m.** Case Studies in Non-Paroxysmal AF: Stepwise and Tailored Approaches *Samuel J. Asirvatham, MD*
- 1:40-2:20 p.m.** Case Studies in Organized Atrial Tachycardias Following Surgical or Catheter Ablation *Joseph G. Akar, MD, PhD*
- 2:20-2:45 BREAK**
- 2:45-4:30 p.m.** AF Ablation Food Fight: Our Most Difficult Cases in Real Life Practice: The Pundits vs. the Bloggers  
Chair: *William G. Stevenson, MD, FHRS*  
Faculty: *Samuel J. Asirvatham, MD; Warren M. Jackman MD, FHRS; Douglas L. Packer, MD, FHRS; William G. Stevenson, MD, FHRS; David J. Wilber, MD; Gregory F. Michaud, MD, FHRS*
- 3:30-5:30 p.m. Breakout without Breaking Down: Working on The Details of AF Ablation**
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| <p><b>Mastering Epicardial Access and Ablation</b></p> <p><b>4:30-5:00 p.m.</b> <i>William G. Stevenson, MD, FHRS</i> ●</p> <p><b>5:00-5:30 p.m.</b> <i>David J. Wilber, MD</i> ◆</p> | <p><b>VT Biophysics Workshop: Twenty Burns and it Won't Go Away</b></p> <p><b>4:30-5:00 p.m.</b> <i>David G. Callans, MD, FHRS</i> ■</p> <p><b>5:00-5:30 p.m.</b> <i>William G. Stevenson, MD, FHRS</i> ■</p> |
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| <p><b>New Robotics Systems: From the Basics to Myth Busting</b></p> <p><b>4:30-5:00 p.m.</b> <i>Gregory F. Michaud, MD, FHRS</i> ●</p> <p><b>5:00-5:30 p.m.</b> <i>Douglas L. Packer, MD, FHRS</i> ◆</p> <p><b>5:30-6:30 p.m.</b> AF Ablation Panel Discussion: Putting It All Together; Practical Matters of Pre, Intra, and Post AF Ablation<br/><i>Faculty Panel</i></p> <p><b>6:30-7:30 p.m.</b> Technology Hands-On Session and Reception <i>(Note: CME Not Available for this Activity)</i></p> | <p><b>Interpretation of Pulmonary Vein Electrograms: Is it Isolated Yet?</b></p> <p><b>4:30-5:00 p.m.</b> <i>Joseph G. Akar, MD, PhD</i> ●</p> <p><b>5:00-5:30 p.m.</b> <i>Samuel J. Asirvatham, MD</i> ●</p> |
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**Tuesday, October 7**

- 7:00-8:00 a.m. CONTINENTAL BREAKFAST (Provided)**
- 8:00-8:30 a.m.** Anatomy of the Ventricles Relevant to Ablation of VT *S. Yen Ho, PhD, FRCPath, FESC*
- 8:30-9:00 a.m.** Image-Guided VT Ablation: Making the Anatomy Work For You *Douglas L. Packer, MD, FHRS*
- 9:00-9:30 a.m.** Case Studies in the Ablation of Idiopathic RV VT *Samual J. Asirvatham, MD*
- 9:30-10:15 a.m.** Case Studies in the Ablation of Idiopathic LV Tachycardias: Dealing with the Bermuda Triagle-From Aortic Cusps to DCS to Above the Pulmonic Valve *David J. Wilber, MD*
- 10:15-10:30 a.m. BREAK**
- 10:30-11:15 a.m.** Case Studies in the Ablation of Scar-Related RV VT: ARVD or Other Ventricular Dysplasia  
*William G. Stevenson, MD, FHRS*
- 11:15 a.m.- 12:00 p.m.** Early intervention for sustained VT: To SMASH VT or not? *David J. Wilber MD.*
- 12:00-1:00 p.m. LUNCH (Provided)**
- 1:00-2:45 p.m.** Ischemic VT Ablation Food Fight: Getting It Done *Chairs: Douglas L. Packer, MD, FHRS and David J. Wilber, MD; Faculty: Warren M. Jackman, MD, FHRS; William G. Stevenson, MD, FHRS; David J. Callans, MD, FHRS*
- 2:45-3:05 p.m. BREAK**
- 3:05-3:30 p.m.** Case Studies in the Ablation of VT in Nonischemic Cardiomyopathy *David J. Callans, MD, FHRS*
- 3:30-4:00 p.m.** Ablation of Ventricular Fibrillation: Approaching the Future *William G. Stevenson, MD, FHRS*
- 3:30-5:00 p.m. JUST DESSERTS** Our Favorite—and Least Favorite—Cases *Faculty Panel*

# GENERAL INFORMATION

## ACCREDITATION

The Heart Rhythm Society is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

## CONTINUING MEDICAL EDUCATION (CME)

The Heart Rhythm Society designates this educational activity for a maximum of 28 *AMA PRA Category 1 Credits™*. Physicians should only claim credit commensurate with the extent of their participation in the activity.

The AMA has determined that physicians not licensed in the USA who participate in this CME activity are eligible for *AMA PRA Category 1 Credits™*.

## CONTINUING EDUCATION (CE) FOR NURSES

The Heart Rhythm Society is an approved provider of continuing nursing education by the New York State Nurses Association, which is accredited as an approver of continuing nursing education by the American Nurses Credentialing Center's Commission of Accreditation.

It has been assigned code 6GDPMX-PRV-065.

A maximum of 28 contact hours are available for this educational activity.

## REGISTRATION/COURSE FEES

### Early through September 5, 2008

Affiliate Members.....	\$425
Affiliate Non-Members.....	\$525
Members.....	\$995
Non-Members.....	\$1,295

### Starting September 6, 2008

Affiliate Members.....	\$525
Affiliate Non-Members.....	\$625
Members.....	\$1,095
Non-Members.....	\$1,395

Advanced Ablation Course registration and fees include all sessions and workshops, as well as continental breakfasts and lunches. There will be no printed course materials, all presentations are available electronically. **Please plan to bring your personal laptop.**

## MEMBER REGISTRATION REQUIREMENTS

To receive the member rate to attend the 2008 Advanced Ablation Course, you must be a member in good standing, with dues paid through October 1, 2008, at the time of registration. All non-members must register at the non-member rate.

Anyone applying for membership with the Heart Rhythm Society prior to the 2008 Advanced Ablation Course must have their completed application packet (application, CV and dues) approved by the Society prior to registering for the 2008 Advanced Ablation Course. The Society will not reimburse the difference between the member and non-member rate to 2008 Advanced Ablation Course registrants whose completed applications are approved **after** they register for the 2008 Advanced Ablation Course.

If you have questions regarding your member status, or if you would like information about Heart Rhythm Society membership, please call (202) 464-3468 or email [Membership@HRSONline.org](mailto:Membership@HRSONline.org).

Affiliate members and non-members include physicians-in-training, scientists-in-training, interns and residents. Affiliate non-members must submit a letter from their department stating that they are currently enrolled in a training program and indicate their program completion date. All letters must be sent to the Heart Rhythm Society's registration vendor, IECi, via email to [reghousing@internationaleventconnection.com](mailto:reghousing@internationaleventconnection.com). If you do not meet these criteria, you must register at the standard rate.

## DISCLOSURE OF FACULTY'S COMMERCIAL RELATIONSHIP(S)

It is the policy of the Heart Rhythm Society to ensure balance, independent objectivity, and scientific rigor in all its sponsored educational programs. All faculty members participating in continuing medical education activities are required to disclose to the program audience any real or apparent conflicts of interest held within the past 12 months. The Heart Rhythm Society implements a mechanism to identify and resolve all conflicts of interest prior to delivering the educational activity to learners.

## DISCLAIMER

The Advanced Ablation Course provides a forum for the open exchange and discussion of research results and scientific advancements in the field of cardiovascular pacing and electrophysiology; however, the Society makes no representation or warranty as to the truth, originality, or accuracy of the information presented at the Advanced Ablation Course or in materials distributed in connection with them. Nor are the views expressed by the individual speakers necessarily the views of the Society. The Heart Rhythm Society supports the ACCME's policy on evidence-based content and encourages faculty to adhere to these standards when planning a presentation.

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## PAYMENT POLICY

The Heart Rhythm Society's registration and housing vendor, IECi, will process and accept the following credit cards – American Express, Visa, and MasterCard. Checks submitted must be drawn on a U.S. bank in U.S. dollars. The registrant pays all fees or charges connected with payment. Please note:

- All registration information must be complete in order to be processed.
- Registration Forms may be reproduced.
- Wire/Bank transfers are not accepted.

## CANCELLATION/REFUND POLICY

All requests for cancellation of your registration for the Advanced Ablation Course must be made in written format and received at IECi by September 5, 2008. Written cancellations should be faxed to 617-864-3767 or sent via email to [reghousing@internationaleventconnection.com](mailto:reghousing@internationaleventconnection.com). A \$50.00 processing fee will be withheld. Course registration fees are non-refundable for cancellations received after September 5, 2008. There are no refunds for "no-shows."

## HOTEL RESERVATIONS

A block of rooms has been reserved at the Westin Gaslamp Quarter at the special meeting rate of \$249 per night (single/double) +tax. This special rate is available on a first come/ first serve basis until September 5, 2008, after which, rooms will be offered on a space and rate available basis. Hotel reservations must be made through one of the registration options offered by the Heart Rhythm Society. A one night room and tax deposit is required to secure your reservation and is refundable up until 48 hours prior to your arrival date. If you cancel your hotel reservation within 48 hours of arrival or if you are a "no-show," a one night room and tax penalty will apply.

In the unlikely event that the course is cancelled, the Heart Rhythm Society is responsible only for full refund of the registration fee and not for transportation, hotel accommodations or any miscellaneous expenses.

## AMERICANS WITH DISABILITIES ACT

The Heart Rhythm Society supports the Americans with Disabilities Act. Should you require specific aids or other services to accommodate your participation at the Advanced Ablation Course, please email your request to [reghousing@internationaleventconnection.com](mailto:reghousing@internationaleventconnection.com) at the time of registration. A Heart Rhythm Society staff member will contact those individuals who have requested assistance to determine what special arrangements can be made.