Science | Discovery | Innovation
HONORING OUR PAST. SHAPING OUR FUTURE.

FEATURING KEYNOTE SPEAKER:
President Bill Clinton
Founder, William J. Clinton Foundation and 42nd President of the United States
Dear Heart Rhythm Professional,

Over the past 34 years, the Heart Rhythm Society has transformed from a small organization representing a niche interest in pacing to a society representing a worldwide community of tens of thousands of heart rhythm specialists dedicated to the common goal of reducing death and suffering due to heart rhythm disorders.

Heart Rhythm 2013 in Denver will celebrate our Society's evolution, focusing on “Honoring Our Past. Shaping Our Future.” As we explore the latest advances in science, discovery, and innovation, we will look back at the groundbreaking events that made such advances possible and how what we know today will improve patient care tomorrow.

We are excited about our 34th Annual Scientific Sessions, which will be held May 8–11 at the Colorado Convention Center. President Bill Clinton will deliver the keynote address at the Opening Plenary session.

Building on years of tradition, Heart Rhythm 2013 will again bring together a faculty of more than 900 of the world’s most noted experts in cardiac rhythm management. Physicians, allied health professionals, and scientists will have a multitude of opportunities to network and explore the latest education and technology aimed at advancing this dynamic field and improving patient care.

We are pleased to present more than 250 educational sessions from which attendees can choose, representing all aspects of pacing, defibrillation, clinical arrhythmia management, ablation, pharmacology, genetics, basic science, and health policy.

Most of these sessions are designed to offer practical information and knowledge that can be taken back and immediately applied to the care of our patients and the advancement of heart rhythm disorders-related research. In addition, we believe that we “stand on the shoulders of giants” and have thus created several sessions to meet the founders and pioneers of our profession and honor their significant contributions to our rich history.

Attendees also can access an exciting mix of products and services through the technical exhibition in the Exhibit Hall, including more than 130 exhibitors showcasing the latest arrhythmia products and services and an expanded Innovation Place.

For the fourth consecutive year, we are pleased to offer joint sessions with our international colleagues. These sessions continue to enhance the clinical and scientific excellence of the meeting and provide a unique opportunity for the global exchange of ideas and best practices.

Registration is now open for this important international conference. Visit HRSonline.org/ADV or call 1-800-748-5052 (within North America) or 1-508-743-0529 (outside North America) for more information.

We look forward to bringing the worldwide arrhythmia community together and to seeing you this spring in Denver!

Richard I. Fogel, MD, FHRS, CCDS
Chair, Scientific Sessions Program Committee
The Heart Rhythm Society is pleased to announce that President Bill Clinton will present the keynote address at the Opening Plenary Session at Heart Rhythm 2013 in Denver, Colorado.

President Clinton remains an influential international figure. His passion for improving lives through innovation and activism positions him as the perfect complement to our program, as we celebrate how our pioneering past is shaping our promising future.

President Clinton served the United States for eight years during a time of unprecedented prosperity and change. Now President Clinton is a powerful voice for progress around the world as he shares his unique insights and observations with audiences around the world. President Clinton’s public speeches describe the challenges of globalization, emphasize our growing interdependence, and point the way toward a common future based on shared goals and values.

President Bill Clinton is the Founder of the William J. Clinton Foundation and 42nd President of the United States. After leaving the White House, President Clinton established the William J. Clinton Foundation with the mission to improve global health, strengthen economies, promote healthier childhoods, and protect the environment by fostering partnerships among governments, businesses, nongovernmental organizations, and private citizens to turn good intentions into measurable results.

President Clinton’s keynote address is made possible in part through the support of VISIT Denver and the Denver Hotel and Hospitality Community.
HEART RHYTHM 2013 GLOBAL GREEN INITIATIVE

The Heart Rhythm Society is going green in 2013! In an effort to reduce our footprint in Denver, we have made a few changes to how things will be distributed at Heart Rhythm 2013. Here’s what you need to know:

- **Final Program Book:** Print versions of the Final Program Book will be available to attendees upon prior request only. If you would like to receive a print version of the Final Program Book, you must indicate your interest at the time you register. An electronic version of the Final Program Book (eBook) will be available for viewing on a computer or tablet devices.

- **Conference Badges:** This year, you will need to pick up your badge on site — conference badges will not be mailed in advance. Attendees will be able to pick up their badges in Lobby A of the Colorado Convention Center (CCC) beginning Tuesday, May 7 at 3 p.m.

- **Attendee Bags:** Bring your favorite Heart Rhythm Meeting Bag to Denver! This year, we will have a limited number of bags to distribute to attendees, so we encourage you to bring your favorite bag from a past meeting.

ABOUT DENVER

Denver, known as “the Mile High City,” is Colorado’s capital and largest city. Home to a thriving arts and cultural scene, world-class attractions, 300 days of sunshine, a walkable downtown, exciting nightlife, and abundant outdoor recreation activities, all with the magnificent Rockies as a backdrop, Denver is a spectacular destination that will awaken your senses. Getting around is easy — free shuttles give visitors quick access to galleries, wine bars, restaurants, and nighttime entertainment and music around the city, including the popular Larimer Square and historic LoDo district.

Getting There

Denver International Airport (DIA) is open 24 hours a day, seven days a week and is served by most major airlines and select charters, providing nonstop daily service to more than 130 national and international destinations.

Getting Around

Whether on foot, by car, or by light rail, Denver is an easy city to get around. Downtown is pedestrian friendly, but you can also hop on the free shuttle that runs along the 16th Street Mall. The light rail connects downtown to the suburbs; buses and taxis offer additional convenient transportation options.

Visit [http://www.denver.org/visitdenver/hr](http://www.denver.org/visitdenver/hr) to plan your dining and activities while in Denver!
HEART RHYTHM 2013 HIGHLIGHTED SESSIONS AND EVENTS

The Heart Rhythm Society’s 34th Annual Scientific Sessions will attract leading cardiac arrhythmia professionals from the United States and more than 75 countries across the globe to share the latest in science, discovery, and innovation in this dynamic field. Acquire first-hand knowledge and best practices that can be immediately put into practice and learn about the emerging technologies of the future.

PIONEERS UNPLUGGED
Thursday, May 9 12:15 – 1:15 p.m.
Friday, May 10 12:15 – 1:15 p.m.

In recognition of our historic past, the Program Committee has developed a new session format that highlights the history, technical changes, and evolution of modern practice and patient care. These informal discussions will be held in the Exhibit Hall.

BATTLE OF THE TITANS
Thursday, May 9 4:30 – 5:15 p.m.
Thursday, May 9 5:30 – 6:15 p.m.

For the first time at Heart Rhythm, let’s get ready to rumble! Two new debate sessions will place “Titan against Titan,” featuring world-renowned experts with very different opinions. Don’t miss these battles of a lifetime. Both sessions will be held on Thursday in the CCC.

■ Warfarin is Obsolete, featuring Michael D. Ezekowitz, MD, PhD vs. John Camm, MD, FhRS
■ Are ICDs Over-Used or Under-Used, featuring Mark E. Josephson, MD vs. Eric N. Prystowsky, MD, FhRS

RAPID FIRE SESSIONS

Get the latest information – fast! New this year is the introduction of “rapid fire cases.” These 60-minute “brown bag” lunchtime sessions will feature five 4-minute case presentations followed by a 7-minute expert panel discussion and Q & A. Experts will rapidly evaluate each case and discuss potential treatment options.

Thursday’s session will focus on atrial fibrillation cases; Friday’s session will focus on device cases.

LEAD MANAGEMENT FORUM

Supported by an unrestricted educational grant from Spectranetics and St. Jude Medical

Attendees asked for it and HRS delivered! Lead management is a “hot topic” for the EP field. This newly added forum, included in the registration fee, explores practical aspects of lead development, implantation, follow up, and extraction.

VT/VF SUMMIT

VT/VF represents another “hot topic” for cardiac arrhythmia professionals. This newly added session will discuss the historical development and state-of-the-art application of strategies to diagnose, evaluate, and treat patients with ventricular arrhythmias in the context of different cardiac diseases.

FELLOWS-IN-TRAINING SESSIONS

Wednesday, May 8–Saturday, May 11

Several sessions for Fellows-in-Training as well as a dedicated lounge will be offered at Heart Rhythm 2013. Fellows can customize their learning experiences by attending sessions tagged Fellows-in-Training, including case-based discussions, Mini-Board Review, and How-To Sessions.

PRACTICE MANAGEMENT SESSIONS

Wednesday, May 8–Saturday, May 11

These educational offerings highlight sessions with a variety of business-related topics, including running an EP Lab and starting a private practice.

MINI-COURSES

Traditionally held on Wednesday, mini-courses are included in the general meeting registration fee. Attendees must indicate their mini-course selections when registering.
**LIVE CASES**

**Thursday, May 9** 8 – 9:30 a.m.
**Friday, May 10** 8 – 9:30 a.m.

Live Case Presentations are an essential component of the Heart Rhythm Annual Scientific Sessions and provide a real time, case-based opportunity for enhanced comprehension of optimal performance of complex ablations. This year, two sessions will be presented at Heart Rhythm 2013 by our hosting institutions, Intermountain Medical Center located in Salt Lake City, UT and Mayo Clinic located in Rochester, MN.

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**WOMEN IN EP NETWORKING LUNCHEON**

**Friday, May 10** 12:15 - 1:15 p.m.

This luncheon will feature a presentation from current HRS President Anne M. Gillis, MD, FHRS, who will offer her perspective on achieving professional and personal goals in a career in electrophysiology. Participants will have the opportunity to interact with Dr. Gillis and participate in a discussion focusing on women in EP.

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**FOUNDERS’ LECTURESHIP AWARD**

**Wednesday, May 8** 8 – 9:30 a.m.

The Founders’ Lectureship Award is presented to an individual who has made a significant and unique contribution to the field of cardiac pacing and electrophysiology. The lecture, *The Science of Atrial Fibrillation 2013: Determinants of Occurrence and Implications for Therapy*, will be presented by Heart Rhythm 2013 award recipient Stanley Nattel, MD, FHRS, during the AF Summit (ticket required).

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**DOUGLAS P. ZIPES LECTURESHIP AWARD**

**Wednesday, May 8** 3 – 3:30 p.m.

The lectureship award named for Douglas P. Zipes, MD, FHRS, recognizes an individual who has contributed to the advancement of cardiac electrophysiology in the area of basic science. The Heart Rhythm 2013 recipient is Raymond Ideker, MD, PhD, FHRS, who will present his lecture, *Rabbit Warren or Beehive: The Mechanisms of Fibrillation and Defibrillation*, during the Basic/Translational Science Forum.

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**HANDS-ON EDUCATIONAL SESSION**

**Wednesday, May 8** 11 a.m. – 3:30 p.m.

 Returning this year, the Hands-On Session with Discussions in the Round at Heart Rhythm 2013 continues to offer a unique and valuable learning opportunity for attendees. Engage in informal discussion with key opinion leaders in electrophysiology and one-on-one demonstrations of the newest technology and equipment, presented by industry experts in a relaxed learning environment. The session closely aligns with the needs of our attendees with an intuitive format and flow based on educational topics and complementary didactic mini-courses. Discussions in the Round will be discussed every 15 to 20 minutes between 11 a.m. and 3:30 p.m.

**Presentation Topics:**

- Ethical Considerations in the Device Clinic
- Maximizing Workflow — How To Do More with Less
- Decoding the Coding Mystery — Are You Coding Appropriately?
- Setting up and Running an Efficient and Profitable Device Clinic
- Setting up a Quality Assurance Program in the EP Lab

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**SOCIETY LEADERSHIP LUNCH FORUM**

**Wednesday, May 8** Noon – 1 p.m.

Network with Heart Rhythm Society leaders, including President Anne M. Gillis, MD, FHRS, at our annual meeting of the membership. The interactive discussion will include the Society’s recent accomplishments, upcoming activities, and how to maximize the value of membership. Non-members are encouraged to attend; beverages and light lunch will be provided.

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**ERIC N. PRYSTOWSKY ABSTRACT AWARDS**

The abstract awards named for Eric N. Prystowsky, MD, FHRS, recognize a fellow and early career researcher in the Clinical Electrophysiology and Catheter Ablation abstract categories. Participants indicate their interest in these awards during the abstract submission process. The Heart Rhythm 2013 recipients of the following awards will be announced in the spring:

- The Eric N. Prystowsky Fellow Clinical Research Award
- The Eric N. Prystowsky Early Career Researcher Award
TRANSLATIONAL ELECTROPHYSIOLOGY SESSIONS

Thursday, May 9 and Friday, May 10

These popular sessions always draw a crowd. During the 90-minute sessions, three or four speakers have their presentations interpreted by a “translator” to ensure that physicians and scientists are “speaking the same language.” Don’t miss out on these exciting exchanges! Session titles include:

- From Cage to Bedside and Back: The Mysterious Story of SCN10a
- Automaticity and Triggering: New Perspectives
- Inflammation: Emerging Mechanistic Links with Arrhythmia
- Stem Cells and Regenerative Medicine: Promise and Pitfalls
- Remodeling of Human Heart
- Mechanical Electrical Feedback: More Than Just Stretch Activated Channels

POSTER TOWN

Wednesday, May 8  6 a.m. – 7:30 p.m.
Thursday, May 9  9:30 a.m. – 5 p.m.
Friday, May 10  9:30 a.m. – 5 p.m.

Our designated area for posters, Poster Town, features lounge areas and a presentation theater for moderated poster sessions. Poster Town is the largest committed space on the exhibit floor, providing a unique meeting place for attendees and an opportunity to directly experience science, discovery, and innovation. A special dedicated section will feature basic science posters.

Back by popular demand! Wednesday’s Featured Poster Session and Reception immediately follows the Opening Plenary Session and will take place in Poster Town located in the Exhibit Hall.

Saturday’s Poster Session will be held from 9 a.m. – noon in Lobby D.

HYDE PARK CORNER

Thursday, May 9 and Friday, May 10

Hyde Park Corner is a free-standing, slideless session where an appointed speaker introduces new or controversial ideas or techniques. The individual will be espousing the virtues of the idea, even if it has not been sufficiently tested in a clinical trial to allow it to stand on “guideline-level” merits. The topics to be presented include:

- ICDs and End-of-Life Care
- Tasers
- Obamacare – Our Salvation?
- Is There a Future for Academic EPs?

IDEAS ON TRIAL

Thursday, May 9 and Friday, May 10

Ideas on Trial sessions are debate sessions of the future! These three interactive 90-minute sessions leave the traditional debate sessions on the floor of the EP lab. Instead of two debaters taking the pro and con side of an issue, the actual “idea” goes on trial with a Chief Justice and two Associate Justices presiding. Attorneys may call witnesses to help make their point to the jury, which is the audience, to make a decision as to whether the idea is “appropriate” or “guilty.” Three Ideas on Trial sessions will be presented!

“Arrest the Risk” Awareness Campaign

Thursday, May 9, 12:15 – 1:15 p.m.

The “Arrest the Risk” special session is an ideal opportunity to learn about the Society’s latest research in Sudden Cardiac Arrest, which helps to identify current awareness levels and perceptions of SCA by electrophysiologists, general cardiologists, primary care practitioners and consumers. The session will be chaired by Walter K. Clair, MD, FHRS, and Kevin L. Thomas, MD.

YOUNG INVESTIGATORS AWARD COMPETITION

Thursday, May 9  1:30 – 3:30 p.m.

The Young Investigators Awards (YIA) Competition, now in its 32nd year, recognizes and encourages the work of young investigators and their parent institutions. All submissions to the YIA Competition are reviewed by the YIA Subcommittee (part of the Scientific Sessions Committee and comprised of senior researchers, clinicians, and scientists), who select six finalists to present their work during Heart Rhythm 2013.
FELLOWS OF THE HEART RHYTHM SOCIETY RECOGNITION AND INDUCTION LUNCH

Friday, May 10 Noon – 1 p.m.
Invitation only

Fellows of the Heart Rhythm Society (FHRS) are invited to join their colleagues and celebrate the induction of new Fellows by Anne M. Gillis, MD, FHRS, Heart Rhythm Society President.

The FHRS designation distinguishes members among health care providers for their specialization in electrophysiology and pacing. Fellows are characterized by advanced training, certification, and/or prominence in research. A current list of FHRS members and application information are available at www.HRSonline.org/FHRS.

AWARDS CEREMONY AND PRESIDENTS’ RECEPTION

Friday, May 10 6 – 7:45 p.m.

The annual Awards Ceremony and Presidents’ Reception is an ideal opportunity to network with colleagues, congratulate distinguished award winners, hear final remarks by Heart Rhythm Society President Anne M. Gillis, MD, FHRS, and welcome Hugh Calkins, MD, FHRS, CCDS, as the next Society President.

JOINT SESSIONS

Thursday, May 9 – Saturday, May 11

Eighteen 90-minute sessions will be offered on topics of medical and scientific interest to attendees, jointly sponsored by the international EP community. Participating organizations include:

- American Society of Echocardiography
- Asia Pacific Heart Rhythm Society
- Associazione Italiana di Arritmologia e Cardiostimolazione (Italian Heart Rhythm Society)
- Brazilian Society of Cardiac Arrhythmias
- Canadian Heart Rhythm Society
- China Heart Rhythm Society
- Chinese Society of Pacing and Electrophysiology
- European Heart Rhythm Association
- Hungarian Society of Cardiology
- Israeli Working Group of Pacing and EP
- Indian Heart Rhythm Society
- Japanese Heart Rhythm Society
- Oregon Health & Science University
- Sociedad Latino Americana de Estimulación Cardíaca y Electrofiología (SOLAECE)
- Society of Cardiology of the Russian Federation
- Society of Thoracic Surgeons
- Taiwan Heart Rhythm Society
- University of Insubria, Varese, Italy
- World Society of Arrhythmias
PROGRAM OVERVIEW

The sessions described in this program are organized by the Heart Rhythm Society Scientific Sessions Program Committee and comprised of world-renowned faculty who have been invited to speak at the 34th Annual Scientific Sessions.

LEARNING OBJECTIVES

1. Encourage the exchange of knowledge and ideas related to cardiac pacing and electrophysiology through oral and poster presentations, core curricula, debates, mini-courses, forums, and symposia.

2. Identify and share throughout the world new advances in basic electrophysiology, arrhythmia-related genetics, clinical pharmacology, cardiac pacing, defibrillation, catheter ablation, and non-invasive diagnostic techniques.

3. Promote best practices for the treatment of patients with cardiac arrhythmias through a review and application of medical society guidelines and consensus documents.

4. Critically review the results of the most recent clinical trials as they relate to the care of patients with cardiac arrhythmias and heart failure.

5. Educate attendees about governmental rules and regulations to optimize compliance with all applicable laws and policies.

6. Recognize how new technologies can improve the quality and maximize the efficiency of electrophysiology care.

DISCLAIMER

The Annual Scientific Sessions 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 Annual Scientific Sessions 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.

EARN CONTINUING EDUCATION CREDIT

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 24 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™.

Nursing and ASRT Credit will be available where appropriate. Visit www.HRSonline.org/Sessions for specific credit information.

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 certified educational activities. Everyone involved in the planning and participation of continuing medical education activities is required to disclose any real or apparent conflict of interest related to the content of his or her presentations and also disclose discussions of unlabeled/unapproved uses of drugs or devices during his or presentations. In accordance with the ACCME’s Standards for Commercial Support of Continuing Medical Education, all faculty and planning partners must disclose any financial relationship(s) or other relationship(s) 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. Detailed disclosure information will be available prior to the activity and in the activity slides.
MEETINGS-AT-A-GLANCE

SESSION TYPES

**CBT** Case-Based Tutorials
Teaching groups encouraging audience discussion with faculty select cases sessions utilizing the Audience Response System (ARS).

**CC** Core Curricula
Didactic sessions in all major categories that provide comprehensive, timely information relevant to the care of patients or to research.

**DB** Debates
Spirited debate sessions on controversial issues. New for Heat Rhythm 2013: *Battle of the Titans!*

**SY** Featured Symposia
Cross-discipline showcase sessions with subject matter experts.

**HP** Hyde Park Corner
A free-standing, slideless session where an appointed speaker introduces new or controversial ideas or techniques.

**HT** How-To
Didactic teaching sessions on how to perform a high-level clinical procedure.

**IT** Ideas on Trial
A dynamic and interactive modification of the traditional debate session. Instead of two presenters taking the pro and con side of an issue, the actual ‘idea’ goes on trial.

**MBR** Mini-Board Review
Held on Saturday morning, these didactic sessions will review complex questions from the board exam or IBHRE exam.

**MC** Mini-Courses
Didactic courses providing in-depth updates on hot, new topics with a question and answer period to follow. Additional fee is no longer required but attendees must indicate their mini-course selections when registering.

**ME** Meet-the-Experts Luncheons
Small lunch talks, without the use of audiovisual aids, which provide a scholarly exchange of information between experts and interested clinicians. Additional fee required.

**TE** Translational Electrophysiology Sessions
The session format features a translator interpreting information for physicians and scientists.

**AB/PO/MC** Oral/Poster/Moderated Poster Abstracts
Presentations in oral and poster format that provide the most up-to-date scientific research.

**SP** Special Sessions
Examples include: Opening Plenary Session; Allied Professionals Orientation, and two networking luncheon sessions; Rapid Fire Sessions; Women in EP Networking Luncheon; Young Investigator Awards Competition; Awards Ceremony and Presidents’ Reception.

SPECIALTY TRACKS

**AP** Allied Professionals

**BS** Basic/Translational Science

**CIED/HF** Cardiovascular Implantable Electronic Devices and Heart Failure

**CECA** Clinical EP and Catheter Ablation

**Peds** Pediatric/Adult Congenital Heart Disease

**PPP** Policy, Payment, and Practice

**SP** Special Session

SESSION TAGS

- **Ticketed Sessions**
  - Fellows-in-Training
  - Practice Management
## Wednesday, May 8

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<td>Allied Professionals Forum II: Introduction to Device Therapies for the Novice Allied Professional</td>
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<td>Allied Professionals Forum III: Insights into Managing Complex Arrhythmia and Device Patients for the Advanced Allied Professional</td>
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<td>From Cage to Bedside and Back: The Mysterious Story of SCN10a</td>
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<td>Interpretive and Programming Problems in ICD Management</td>
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8 – 8:45 a.m.  
8 – 9:30 a.m.  
9 – 9:45 a.m.  
9:30 – 10:15 a.m.  
10:30 – 11:15 a.m.  
10:30 a.m. – noon
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11:30 a.m. – 12:15 p.m.

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12:15 – 1:15 p.m.

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1:30 – 3 p.m.

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1:30 – 3:30 p.m.

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3 – 3:15 p.m.

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4:30 – 5:15 p.m.

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### Thursday, May 9

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### 1:30 – 3 p.m.

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<tr>
<td>SP</td>
<td>HP</td>
<td>HP04</td>
<td>Is there a Future for Academic EPs?</td>
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### 3 – 3:15 p.m.

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<td>HP04</td>
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### 4:30 – 6 p.m.

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<tr>
<td></td>
<td>AP</td>
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<td>121</td>
<td>New and Future Technologies for Catheter Ablation</td>
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<td>HT</td>
<td>122</td>
<td>How to Manage AF in the Office Setting</td>
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<tr>
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<td>BS</td>
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<td>123</td>
<td>Non-Coding RNAs in Arrhythmia Mechanism, Diagnosis, and Therapy</td>
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<td></td>
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<td>TE</td>
<td>124</td>
<td>Mechanical Electrical Feedback: More Than Just Stretch Activated Channels</td>
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<td>CIED/HF</td>
<td>CBT</td>
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<td>Lead Extraction 2013</td>
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<td>JS</td>
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<td>Impact of Cardiovascular Ultrasound in Cardiac Resynchronization Therapy</td>
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<td>CIED/HF</td>
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<td>Implanted Devices for Autonomic Nervous System Modulation in HF</td>
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<td>Riata Lead Failure: Externalized Conductors and Electrical Failures</td>
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<td>129</td>
<td>CRT — Bias, Disparities, and Under Use: Why We Need to Do Better</td>
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## Friday, May 10

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<tr>
<td>CECA</td>
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<td>Interpretation of Intracardiac Ventricular Electrograms during VT Ablation: What Is Important?</td>
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<td>131</td>
<td>How To Perform Substrate and Autonomic Ablation for AF</td>
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<td>Atrial Tachycardia: Complex Situations</td>
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<td>Ablation for Renal Denervation: What Does the EP Need to Know?</td>
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<td>How To Use the New Oral Anticoagulants</td>
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<td>Utility of the ECG in Sudden Death Risk Stratification</td>
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<td>136</td>
<td>Real-Life Epidemiology, Management, and Outcomes of the AF Ablation</td>
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<td>CIED/HF</td>
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<td>ICD Indications and Outcomes: Lessons from Registries</td>
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<td>Measuring Clinical Outcomes in Pediatric and Congenital EP</td>
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<td>How To Perform Cardiac Resynchronization Therapy in the Pediatric Population</td>
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<td>Health Information Technology for the Practicing EP</td>
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<td>Interventional Device Implantation: Improve Success and Reduce Implant Times</td>
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### 4:30 – 6 p.m. (cont.)

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<td>Systems Level Modeling of Arrhythmias</td>
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<td>144</td>
<td>How To Perform Low Energy Anti-Fibrillation</td>
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<td>CIED/HF</td>
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<td>CRT — Indications and Treatment Options for Patients in the Gray Zone</td>
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<td>Preparing For the EP Board Exam: CIEDs</td>
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<td>Ventricular Arrhythmias: Clinical Aspects and Ablation Techniques</td>
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<td>148</td>
<td>VT Management, Mechanisms, Diagnosis, and Treatment</td>
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<td>Recent Developments in Understanding and Management of Complex Arrhythmias</td>
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## Saturday, May 11

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<td>Remote Monitoring of Devices in 2013</td>
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<td>142</td>
<td>Preparing For the EP IBHRE Exam: Challenging Cases and Questions</td>
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<td>Mitochondrial Function and Arrhythmia</td>
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<td>Cytoskeletal Proteins and Arrhythmia</td>
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<td>CIED/HF</td>
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<td>155</td>
<td>Managing ICD Shocks for VT/VF</td>
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<td>CC</td>
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<td>Controversies In Device Therapy</td>
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<td>New Technologies in Pacemakers and ICDs</td>
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<td>158</td>
<td>New Technologies for AF Ablation: Do They Add Value?</td>
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<td>Preparing For the EP Board Exam: Intracardiac Electrograms, Arrhythmia Mechanisms, and Mapping</td>
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<td>Heritable Arrhythmias in Children — What’s New?</td>
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### 10:30 a.m. – noon

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The Heart Rhythm Society’s Infinity Circle acknowledges our year-round supporters for their significant contributions. Infinity Circle members help fund a wide range of Heart Rhythm Society initiatives and programs, which ultimately lead to improved quality, patient diagnosis, treatment and care. The Heart Rhythm Society gratefully acknowledges the companies in the 2012 Infinity Circle.

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As of December 15, 2012
AF SUMMIT  |  Ticketed Session

AF ABLATION: STATE OF THE ART 2013

The 2013 AF Summit is an all-day program providing a comprehensive review of AF ablation and evolving therapies that are changing the field. Session topics include tools and technologies for AF ablation, catheter ablation of paroxysmal AF, catheter ablation of long-standing persistent AF, and stroke prevention therapies. The AF Summit will also showcase the recipient of the Founders’ Lectureship Award.

Attendees will leave this session with advanced knowledge of this rapidly evolving field. A separate registration fee is required for the day-long session.

For accreditation information regarding this one-day event, please visit the Society’s website at www.HRSonline.org/Sessions.

WEDNESDAY, MAY 8

AF01  |  8 – 9:35 a.m.

CATHETER ABLATION OF PAROXYSMAL AF

Session Description: This session will discuss the key aspects and considerations of catheter ablation of paroxysmal atrial fibrillation.

Chairs:
David J. Callans, MD, FHRS, CCDS
University of Pennsylvania, Philadelphia, PA
Riccardo Cappato, MD, FHRS
IRCCS Policlinico San Donato, San Donato Milanese, Italy

Summit Introductions and Overview
Hugh Calkins, MD, FHRS, CCDS
Johns Hopkins Hospital, Baltimore, MD

Techniques and Long-Term Outcomes of Ablation of Paroxysmal AF
Jonathan S. Steinberg, MD, FHRS
Valley Health System, New York, NY

Founders Lectureship Award — The Science of AF 2013: Determinants of Occurrence and Implications for Therapy
Stanley Nattel, MD, FHRS
Montreal Heart Institute/Université de Montréal, Montreal, QC, Canada

Techniques and Outcomes of Autonomic Ganglion Ablation: Does it Really Add?
Sunny S. Po, MD, PhD
Oklahoma University Health Science Center, Oklahoma City, OK

Panel Discussion

BREAK  |  9:30 – 9:45 a.m.

AF02  |  9:50 a.m. – noon

CATHETER ABLATION OF PERSISTENT AND LONG-STANDING PERSISTENT AF

Session Description: This session will discuss the key aspects and considerations of catheter ablation of persistent and long-standing persistent atrial fibrillation.

Chairs:
David E. Haines, MD, FHRS
William Beaumont Hospital, Royal Oak, MI
Francis E. Marchlinski, MD, FHRS
University of Pennsylvania, Philadelphia, PA

Basic Mechanisms of Persistent and Long-Standing Persistent AF
Jose Jalife, MD, FHRS
University of Michigan, Ann Arbor, MI

Mapping of AF in Humans: Lesson Learned
Albert L. Waldo, MD, FHRS, CCDS
Case Western Reserve University/University Hospitals, Case Medical Center, Cleveland, OH

The Sequential Approach to Ablation of Long-Standing Persistent AF
Thomas Rostock, MD
University Hospital Eppendorf, Hamburg, Germany

Techniques and Outcomes of Rotor-Based Ablation of Persistent and Long-Standing Persistent AF
Sanjiv M. Narayan, MD, PhD, FHRS
University of California, San Diego VA Medical Center, San Diego, CA

Mapping Human AF to Guide Catheter Ablation
Michel Haissaguerre, PhD
Hopital Cardiologique Haut Leveque; Université Bordeaux, Pessac, France
AF03 SP  12:30 – 2:15 p.m.
NEW AND OLD TECHNOLOGIES FOR AF ABLATION

Session Description: This session will discuss new technologies and old time-proven technologies associated with catheter ablation of atrial fibrillation.

Chairs:
David T. J. Keane, MD, PhD, FHRS, CCDS
St. Vincent's University Hospital, Dublin 4, Ireland
Walid I. Saliba, MD, FHRS
Cleveland Clinic Foundation, Cleveland, OH

Creating Lesions with Catheters: What Energy Source or Approach Leads to the Best Lesions?
David E. Haines, MD, FHRS
William Beaumont Hospital, Royal Oak, MI

The Cabana Trial: An Update
Douglas Packer, MD, FHRS
Mayo Clinic — St. Mary’s Hospital, Rochester, MN

Force Sensing Catheters: Have Our Hopes Been Realized?
Karl-Heinz Kuck, MD, FHRS
Asklepios Klinik St. Georg, Hamburg, Germany

Catheter Cryoballon: Current Techniques and Outcomes
D. Wyn Davies, MD, FHRS
St. Mary’s Hospital, London, United Kingdom

Renal Denervation to Facilitate Outcome of AF Ablation
Dominik K. Linz, MD
Universitätsklinikum des Saarlandes, Klinik für Innere Medizin III, Homburg/Saar, Germany

Catheter Ablation of AF Guided by MR Imaging: Are We There Yet?
Nassir F. Marrouche, MD, FHRS
University of Utah, Salt Lake City, UT

Real-Time Monitoring of Lesion Development: Ready for Prime Time?
Dipen C. Shah, MD, FHRS
Hôpital Cantonal De Geneve, Geneva, Switzerland

AF04 SP  2:30 – 4 p.m.
STROKE PREVENTION IN AF PATIENTS

Session Description: This session will discuss how to prevent atrial fibrillation strokes as well as potential treatment options to minimize the atrial fibrillation stroke risk.

Chairs:
Albert L. Waldo, MD, FHRS, CCDS
Case Western Reserve University, Cleveland, OH
Michael D. Ezekowitz, MD, PhD
Lankenau Medical Center, Wynnewood, PA

Coumadin: A Look Back and a Look Forward
John Camm, MD, FHRS
St. George’s Hospital Medical School, London, United Kingdom

Dabigatran, Xarelto, and Apixaban: What Have We Learned in Clinical Trials and with Clinical Experience?
Michael D. Ezekowitz, MD, PhD
Lankenau Medical Center, Wynnewood, PA

Risk Stratification of Stroke Risk in AF Patients
Paulus F. Kirchhof, MD
University of Birmingham, Birmingham, United Kingdom

How Effective is Appendage Ligation/Occlusion/Resection in Reducing Stroke Risk: My Perspective
Andre D’Avila, MD, PhD
Mount Sinai Hospital, New York, NY

Mechanical Appendage Occlusion Devices: Where Are They Now?
Vivek Y. Reddy, MD
Mount Sinai School of Medicine, New York, NY

The Lariat Device and Other Epicardial Approaches for Appendage Occlusion
Randall J. Lee, MD, PhD
University of California, San Francisco, CA

Closing Remarks
John D. Day, MD, FHRS
Intermountain Medical Center, Salt Lake City, UT
VT/VF SUMMIT $ Ticketed Session

TECHNIQUES FOR SUCCESS AND TOOLS FOR THE FUTURE

This session will discuss the historical development and state-of-the-art application of strategies to diagnose, evaluate, and treat patients with ventricular arrhythmias in the context of different cardiac diseases.

For accreditation information regarding this one-day event, please visit the Society’s website at www.HRSonline.org/Sessions.

WEDNESDAY, MAY 8

VT01 SP 8 – 9:35 a.m.
HISTORICAL BASIS: FUNDAMENTAL CONCEPTS FOR UNDERSTANDING THE PHYSIOLOGY OF VT

Chair:
Mark E. Josephson, MD
Beth Israel Deaconess Medical Center, Boston, MA

Anatomic and Electrical Substrate of VT
Mark E. Josephson, MD
Beth Israel Deaconess Medical Center, Boston, MA

Insights from Interoperative Mapping
John M. Miller, MD, FHRS
Indiana University School of Medicine, Indianapolis, IN

Autonomic Nervous System Influences on VT and VF
Douglas P. Zipes, MD, FHRS
Krannert Institute of Cardiology, Indianapolis, IN

Understanding the Nature of Ventricular Fibrillation and Defibrillation
Raymond E. Ideker, MD, PhD, FHRS
University of Alabama, Birmingham, AL

Ablation of VF
Samuel J. Asirvatham, MD, FHRS
Mayo Clinic, Rochester, MN

Non-Imaging Approaches to Arrhythmia Substrate
Jeffrey J. Goldberger, MD, FHRS
Northwestern Memorial Hospital, Chicago, IL

VT03 SP 12:30 – 2:15 p.m.
CLINICAL MANAGEMENT

Chair:
Francis E. Marchlinski, MD, FHRS
University of Pennsylvania Health System, Philadelphia, PA

Overview: Evaluation of Patients with VT, Understanding ECG/Anatomy
William G. Stevenson, MD, FHRS
Brigham and Women’s Hospital, Boston, MA

Acute and Chronic Pharmacologic Therapy
Peter R. Kowey, MD, FHRS
Mainline Heart Center, Wynnewood, PA

Device Treatment: New Algorithms to Prevent Shock, Effect of BiV Pacing, SubQ ICD
Michael R. Gold, MD, PhD, FHRS
Medical University of South Carolina, Charleston, SC

Where Ablation Fits in the Course of Patients with VT
David J. Callans, MD, FHRS, CCDS
University of Pennsylvania, Philadelphia, PA

VT04 SP 2:30 – 4 p.m.
ARE WE THERE YET? NEW ENDGAME STRATEGIES AND FUTURISTIC ABLATION TECHNOLOGY

Chair:
Douglas Packer, MD, FHRS
Mayo Clinic — St. Mary’s Hospital, Rochester, MN

LAVA Ablation
Pierre Jais, MD, CHU
Bordeaux University, Bordeaux, France

Anatomic Endpoints for Substrate Ablation
Francis E. Marchlinski, MD, FHRS
University of Pennsylvania, Philadelphia, PA

Surgical Ablation
Sanjay Dixit, MD, FHRS
University of Pennsylvania, Philadelphia, PA

VF Ablation and New Ablation Technologies
Samuel J. Asirvatham, MD, FHRS
Mayo Clinic — St. Mary’s Hospital, Rochester, MN
ALLIED PROFESSIONAL FORUMS

The Allied Professional (AP) Forums promote quality education for allied professionals and inspire attendees to expand scientific discovery and apply it to their daily practice. Three complimentary forums will be offered: two for those beginning their careers, emphasizing the fundamentals of EP and devices; the third with an advanced content focus. The forums include a Hands-on Educational Session, an Allied Professional Orientation for those attending their first Scientific Sessions, and the Opening Plenary Session.

WEDNESDAY, MAY 8

SP02 AP FORUM I 8 a.m. – 3:30 p.m.

INTRODUCTION TO EP FOR THE NOVICE ALLIED PROFESSIONAL

Session Description: This session is designed for the Allied Professional who is relatively new to the field. It will include an overview of diagnostic and therapeutic EP procedures and will feature an interactive format using the audience response system. Time will be provided after the didactic sessions for “hands-on” with EP diagnostic and therapeutic equipment.

Chairs:
Jill L. Repoley, MSN, NP, FHRS, CCDS, CEPS
The Heart Group of Lancaster General Health, Lancaster, PA
Christine C. Chiu-Man, MS, FHRS, CCDS, CEPS
The Hospital for Sick Children, Toronto, ON, Canada

Cardiac Anatomy Relevant to Electrophysiology
TBD

Cellular Electrophysiology: The Action Potential and Ion Channels
Joshua M. Cooper, MD
Hospital of the University of Pennsylvania, Philadelphia, PA

Basic Catheter Placement and Electrogram Interpretation
Rutuke K. Patel, PA-C
Hospital of the University of Pennsylvania, Philadelphia, PA

BREAK 10 – 10:15 a.m.

Pacing Protocols and Electrophysiologic Evaluation
Esther M. Weiss, APN, CNS, MSN, CCDS, CEPS
Sherman Hospital, Elgin, IL

What Rhythms Do We Treat with Ablation and How Do We Do It?
Eric C. Stecker, MD, MPH
Oregon Health & Science University, Portland, OR

Putting it all Together: Case Presentations from the Lab
Pamela K. Mason, MD
University of Virginia Health System, Charlottesville, VA

SP03 AP FORUM II 8 a.m. – 3:30 p.m.

INTRODUCTION TO DEVICE THERAPIES FOR THE NOVICE ALLIED PROFESSIONAL

Session Description: This session is designed for the Allied Professional who is relatively new to the field. It covers the basic principles of device function and programming and features an interactive format with the audience response system. Time is provided after the didactic sessions for “hands-on” experience with the devices.

Chairs:
Laurie K. Racenet, ANP, CEPS, CCDS
Alaska Heart Institute, Anchorage, AK
Heather M. Ross, DNP, ANP-BC, FHRS, CCDS
Arizona Arrhythmia Consultants, Scottsdale, AZ

Pacing and ICD Indications
Rosemary S. Bubien, RN, MSN, FHRS, CCDS
University of Alabama at Birmingham, Birmingham, AL

Basic Pacing Timing Cycles
Mark W. Sweesy, FHRS, CCDS, CEPS
Arrhythmia Technologies Institute, Greenville, SC

Making Timing Cycles Work for Your Patient
Mark W. Sweesy, FHRS, CCDS, CEPS
Arrhythmia Technologies Institute, Greenville, SC

BREAK 10 – 10:15 a.m.

Device Diagnostics: What Does the Device Tell You?
Donna Gerity, RN, MN, CCDS, CEPS
Swedish Heart & Vascular, Seattle, WA

Understanding the Concepts of Arrhythmia Detection in the ICD
Linda K. Ottoboni, MS, RN, MS, CNS, FHRS, CCDS
Stanford University Hospital, Stanford, CA
Programming ICDs to Reduce Shock
Mark S. Link, MD, FHRS
Tufts Medical Center, Boston, MA

Hands-On Educational Session
Elizabeth A. Ching, RN, FHRS, CCDS
Cleveland Clinic Foundation, Cleveland, OH
Lon W. Castle, MD
Cleveland Clinic, Westlake, OH

SP04 AP FORUM III AP 8 a.m. – 4 p.m.

INSIGHTS INTO MANAGING COMPLEX ARRHYTHMIA AND DEVICE PATIENTS FOR THE ADVANCED ALLIED PROFESSIONAL

Session Description: This session is designed to explore more advanced concepts in the management of patients with arrhythmias. It will include “hands-on” time with Rhythm Management Devices, Ablation Systems, and EP Recording Systems.

Chairs:
Craig Swygman, CVT, FHRS, CEPS
St. Vincent Hospital, Portland, OR
Robin A. Leahy, RN, BSN, FHRS, CCDS
Sanger Heart and Vascular Institute, Charlotte, NC

Anticoagulation and Devices for Stroke Prevention in 2013
Gerilynn M. Schott, MSN, CRNP
Hospital of the University of Pennsylvania, Philadelphia, PA

Special Considerations in Epicardial Ablation of VT: Pre-procedure, Procedural, and Post-procedure
Cory M. Tschabrunn, CEPS
Beth Israel Deaconess Medical Center, Harvard Medical School, Boston, MA

Cardiac Rhythm Devices and the Pediatric Population
Vicki L. Zeigler, RN, PhD, FHRS, CEPS, CCDS
Texas Woman's University, Denton, TX

BREAK 9:35 – 10 a.m.

Genetic Testing: Channelopathies, HOCM, ARVC
David Tester, BS
Mayo Clinic, Rochester, MN

Current Strategies for Lead Management
Julie B. Shea, MS, RNCS, FHRS, CCDS
Brigham and Women's Hospital, Boston, MA

MRIs and Devices: When and How?
Roseann Hansford, RN, MPH
Johns Hopkins Hospital, Baltimore, MD

Post-Ablation Follow up of the Atrial Fibrillation Patient
Salwa Beheiry, RN, BSN, CCRN
California Pacific Medical Center, San Francisco, CA

LUNCH BREAK Noon – 12:30 p.m.

Hands-On Educational Session
Elizabeth A. Ching, RN, FHRS, CCDS
Cleveland Clinic Foundation, Cleveland, OH
Lon W. Castle, MD
Cleveland Clinic, Westlake, OH

Managing Complications in the EP Lab
Joseph B. Hejlik, RN, BSN
Mayo Clinic, Phoenix, AZ

Syncope: Current Diagnostic and Treatment Strategies
Tracey J. Littlefield, RN, BSN
Brigham and Women's Hospital, Boston, MA

Use of 12-Lead ECG in the EP Lab
Scott J. Cox, MS, PAC
Main Line Health System, Lankenau Medical Center, Wynnewood, PA
BASIC/TRANSITIONAL SCIENCE FORUM

HEART RHYTHM SYSTEMS PHYSIOLOGY

WEDNESDAY, MAY 8

SESSION ONE

HEART RHYTHM BIOINFORMATICS

Chair:
Yoram Rudy, PhD, FHRSA
Washington University in St. Louis, St. Louis, MO

EP in the “Cloud”: The Cardio Vascular Research Grid Project
Raimond Winslow, PhD
Johns Hopkins University, Baltimore, MD

Patient-specific Models: Computational Pipeline for the Arrhythmia Simulation
Robert Macleod, PhD
University of Utah, Salt Lake City, UT

Virtual Rat: Computational Systems Physiology
TBD

SESSION TWO

CARDIAC CIRCADIAN RHYTHM AND ARRHYTHMIA

Chair:
Marek Malik, MD, PhD, FHRSA
St Paul’s Cardiac Electrophysiology and St George’s, University of London, London, United Kingdom

Autonomic Modulation in the Prevention of Life-threatening Arrhythmias
Peter J. Schwartz, MD
University of Pavia/Fondazione IRCCS Policlinico San Matteo, Pavia, Italy

Myocardial Metabolic and Physiological Daily Rhythms
Martin Young, MD
UAB Comprehensive Diabetes Center, Birmingham, AL

SESSION THREE

MAKING A PACEMAKING AND CONDUCTION SYSTEM

Chair:
Michiko Watanabe, PhD
Case Western Reserve University, Cleveland, OH

Programming and Reprogramming the Conduction System
Vincent M. Christoffels
University of Amsterdam, Amsterdam, Netherlands

Notch Signaling in Conduction Cell Specification
Stacey Rentschler, MD, PhD
Washington University in St. Louis, St. Louis, MO

Gene Regulatory Networks in Conduction System Function and Disease
Ivan Moskowitz, PhD
University of Chicago, Chicago, IL

SESSION FOUR

OXIDATIVE STRESS AND ARRHYTHMIA: NOVEL SIGNALING PATHWAYS

Chair:
Bjorn C. Knollmann, MD, PhD
Vanderbilt University Medical Center, Nashville, TN

Oxidized Ryanodine Receptor-mediated Arrhythmias
Kenneth R. Laurita, PhD
Case Western Reserve University, Cleveland, OH

Is AF an Oxidant Injury?
Barbara Casadei, MD
University of Oxford, Oxford, United Kingdom

Circadian Transcriptional Regulation in Cardiac Ion Channels and Arrhythmia
Mukesh Jain, MD
Case Western Reserve University, Cleveland, OH

Moderated Discussion

BREAK 10 – 10:30 a.m.
The Role of Oxidation in Sudden Death
TBD

Moderated Discussion

LUNCH BREAK 12:30 – 1:30 p.m.

SESSION FIVE
AUTONOMIC CONTROL OF HEART RHYTHM AND ARRHYTHMIA

Chair:
Douglas P. Zipes, MD, FHRS
Krannert Institute of Cardiology, Indianapolis, IN

Molecular Mechanisms of Remodeling of Sympathetic Nerves and Receptors and Arrhythmia
Beth A. Habecker, PhD
Oregon Health & Science University, Portland, OR

Neural Remodeling and Cardiac Arrhythmia in Animal Models
Peng-Sheng Chen, MD, FHRS
Indiana University School of Medicine, Indianapolis, IN

Neural Remodeling and Cardiac Arrhythmia in Humans
Kalyanam Shivkumar, MD, PhD, FHRS
UCLA Cardiac Arrhythmia Center, Los Angeles, CA

Moderated Discussion

BREAK 2:30 – 3 p.m.

DOUGLAS P. ZIPES LECTURESHIP AWARD
Rabbit Warren or Beehive: The Mechanisms of Fibrillation and Defibrillation
Raymond E. Ideker, MD, PhD, FHRS
University of Alabama, Birmingham, AL
LEAD MANAGEMENT FORUM

Supported by an unrestricted educational grant provided by Spectranetics and St. Jude Medical

WEDNESDAY, MAY 8

LEAD DEVELOPMENT

Session Description: This session will provide an historical overview of lead development, including lead failures from which to learn. Present development, bench testing, clinical trialing, and regulatory processes will be described, as well as requirements for future leads.

Chairs:
G. Frank O. Tyers, MD
Vancouver Acute Care Hospitals, Vancouver, BC, Canada
Ali Oto, MD, FHRS
Hacettepe University School of Medicine, Ankara, Turkey

A Historic Perspective on Lead Development
Harry Mond, MD, FHRS, CCDS
Royal Melbourne Hospital, Victoria, Australia

Lessons Learned: Earlier Lead Failures
Andrew E. Epstein, MD, FHRS
University of Pennsylvania, Philadelphia, PA

New Leads: Development, Testing, Clinical Evaluation, and Regulatory Approval
Jeffrey A. Brinker, MD
Johns Hopkins Hospital, Baltimore, MD

Are Leads Needed in the Future and if So, What are the Requirements?
Bruce L. Wilkoff, MD, FHRS, CCDS
Cleveland Clinic, Cleveland, OH

LEAD IMPLANTATION

Session Description: This session will describe how to select the best lead for each purpose, implantation techniques, and the prevention and treatment of implantation related complications.
LM03  CIED/HF  12:30 – 2:15 p.m.

LEAD FOLLOW UP, TROUBLESHOOTING, AND MANAGEMENT

Session Description: This session will describe methods for lead follow up and troubleshooting, as well as the management of infected, superfluous, and recalled leads.

Chairs:
Massimo Santini, MD
Ospedale San Filippo Neri, Rome, Italy
John Camm, MD, FHRSS
St. George’s Hospital Medical School, London, United Kingdom

Follow up and Troubleshooting of Brady, Tachy, CS, and Epicardial Leads
Paul A. Levine, MD, FHRSS, CCDS
Loma Linda University School of Medicine and UCLA, Loma Linda, CA

Managing Infected Leads
Maria Grazia Bongiorni, MD
University Hospital of Pisa, Pisa, Italy

Managing Functional and Non-functional Superfluous Leads
Seth J. Worley, MD, FHRSS
The Heart and Vascular Institute of Lancaster General, Lancaster, PA

Managing Recalled Leads
Frank A. Bracke, MD
Catharina Hospital, Eindhoven, Netherlands

LM04  CIED/HF  2:30 – 4 p.m.

LEAD EXTRACTION

Session Description: This session will describe techniques for lead extraction and the management of patients with occluded veins, as well as prevention of lead extraction complications.

Chair:
Charles Kennergren, MD, PhD, FHRSS
Sahlgrenska University Hospital, Gothenburg, Sweden

Techniques for Lead Extraction
Oussama M. Wazni, MD
Cleveland Clinic, Cleveland, OH

Past and Present Results of Lead Extraction in Small, Medium, and Large Centers
Gemma Pelargonio, MD
Catholic University, Istituto Di Cardiologia, Rome, Italy

Managing Patients with Occluded Veins from a Leads Perspective
Roger G. Carrillo, MD, FHRSS, CCDS
University of Miami Hospital, Miami, FL

Prevention and Treatment of Lead Extraction Complications
Charles L. Byrd, MD
CL Byrd, MD, Weston, FL

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MEET-THE-EXPERTS LUNCHEONS

THURSDAY, MAY 9  12:15 – 1:15 p.m.

**ME01**

**HEART RHYTHM RESEARCH: FUNDING LANDSCAPE**

*Session Description:* The session will teach basic and clinical heart rhythm researchers the art of getting federal funding for their research projects and laboratories. Experts from NIH NHLBI, NIH Center for Scientific Review, and academic researchers at different career stages will present their visions and advice on building and maintaining a successful scientific enterprise in the field of cardiac arrhythmia.

*Chair:* Jose Jalife, MD, FHRS
University of Michigan, Ann Arbor, MI

**NHLBI Support of Arrhythmia Research**
David A. Lathrop, PhD
National Heart Lung & Blood Institute, Bethesda, MD

**Navigating the Peer-review Process during Challenging Times**
Yuanna Cheng, MD, PhD
NIH Center of Science Research, Washington, DC

**How to Make It to the Big League and Get Your First R01**
Crystal M. Ripplinger, PhD
University of California — Davis, Davis, CA

**Staying Afloat — Building and Funding Productive Teams**
James Weiss, MD
University of California — Los Angeles, Los Angeles, CA

**ME02**

**LATEST ICD TECHNOLOGY: THE TOTALLY SUBCUTANEOUS DEVICE**

*Session Description:* The indications, implantation technique, and potential risks and benefits of the totally subcutaneous ICD system will be discussed.

*Chair:* Michael R. Gold, MD, PhD, FHRS
Medical University of South Carolina, Charleston, SC

**ME03**

**SUCCESS IN LEAD EXTRACTION: WHAT I HAVE LEARNED**

*Session Description:* This session will highlight three world-renowned lead extractors and their success and lessons learned in lead extraction.

*Chair:* Charles Kennergren, MD, PhD, FHRS
Sahlgrenska University Hospital, Gothenburg, Sweden

**Patient Selection**
Charles L. Byrd, MD
Cl Byrd, MD, Weston, FL

**Techniques**
Roger G. Carrillo, MD, FHRS, CCDS
University of Miami Hospital, Miami, FL

**Minimizing Complications**
George H. Crossley, MD, FHRS, CCDS
St. Thomas Research Institute and University of Tennessee College of Medicine, Nashville, TN
THE PAST, PRESENT, AND FUTURE OF VT ABLATION: AN EXPERT’S PERSPECTIVE

Session Description: Leading experts outline the historical context in our understanding of ventricular arrhythmogenesis. They will lay the basis for present approaches for ablative management in patients without structural heart disease, the underlying anatomy and correlation with new electrophysiological insights as to why these arrhythmias occur, and thus refine an approach for ablation, which will be presented. The unique causes for difficulty and troubleshooting errors that may occur with ablative management in patients with structural heart disease will be explained.

Chair:
William G. Stevenson, MD, FHRS
Brigham and Women's Hospital, Boston, MA

How Did We Succeed with VT Ablation?
William G. Stevenson, MD, FHRS
Brigham and Women's Hospital, Boston, MA

VT Ablation Success: Is it Mapping, Physiology, or Biophysics?
Francis E. Marchlinski, MD, FHRS
University of Pennsylvania Health System, Philadelphia, PA

The Future of VT Ablation: Anatomy, Physiology, and Fibrillation
David J. Wilber, MD, FHRS, CCDS
Loyola University Medical Center, Maywood, IL

THE BUSINESS OF PEDIATRIC EP

Session Description: This session will explore the economic and business models that influence the pediatric EP practice.

Chair:
TBD

Managing a Pediatric EP Practice in Academic Medicine
Richard A. Friedman, MD, MBA, FHRS, CCDS
Columbia University Medical Center, New York, NY

The Economics of Medical Devices in Pediatric EP
Peter P. Karpawich, MD, FHRS
Children’s Hospital of Michigan, Wayne State University, Detroit, MI

THE DISCONNECT BETWEEN REIMBURSEMENT AND THE GUIDELINES: LIFE AFTER THE DOJ INVESTIGATION

Session Description: Hospitals have been investigated by the U.S. Department of Justice due to the misalignments between contemporary evidence-based medical practice and the National Coverage Determination for ICDs. This session will summarize the DOJ investigation and provide guidance on how to minimize the risk of investigation.

Chair:
Richard L. Page, MD, FHRS
University of Wisconsin School of Medicine, Madison, WI

The Buckets
Andrea M. Russo, MD, FHRS
UMDNJ/Robert Wood Johnson Medical School, Cooper University Hospital, Camden, NJ

Reimbursement Disconnect
Bruce D. Lindsay, MD, FHRS, CCDS
Cleveland Clinic Foundation, Cleveland, OH

Practice Recommendations
Bruce L. Wilkoff, MD, FHRS, CCDS
Cleveland Clinic, Cleveland, OH

AN EXPERTS’ APPROACH TO THE MANAGEMENT OF AF

Session Description: This session will discuss putting AF ablation into clinical context.

Chair:
Francisco G. Cosio, MD, FHRS
Hospital Universitario Getafe, Getafe, Spain

Anticoagulation and Stroke Reduction in AF
TBD

When to Ablate — When Not to Ablate
D. Wyn Davies, MD, FHRS
St. Mary’s Hospital, London, United Kingdom

AF Ablation: Tricks of the Trade
Luigi Di Biase, MD, PhD, FHRS
Texas Cardiac Arrhythmia Institute, Austin, TX
FRIDAY, MAY 10  12:15 – 1:15 p.m.

ME08  CIED/HF

CIED REUSE: A HUMANITARIAN EFFORT

Session Description: Societal benefits and safety of CIED reuse will be discussed in this session.

Chair:
Behzad B. Pavri, MD
Thomas Jefferson University Hospital, Philadelphia, PA

Ethical Issues and Societal Benefits of Reuse
Andrew D. Krahn, MD, FHRS
Sauder Family and Heart & Stroke Foundation of BC, Vancouver, BC, Canada

Safety of Reuse
TBD

What Should We Do Next to Enhance Awareness?
TBD

ME09  CECA

ANTIARRHYTHMIC DRUGS VS. VT ABLATION IN PATIENTS WITH APPROPRIATE ICD SHOCKS

Session Description: In this session, experts will review the relative value of medical therapy and interventional strategies, including radiofrequency ablation and autonomic manipulation for minimizing ICD shocks in patients with malignant ventricular arrhythmias.

Chair:
David S. Cannom, MD, FHRS
Good Samaritan Hospital, Los Angeles, CA

Antiarrhythmic Therapy to Prevent ICD Shocks: Amiodarone, Ranolazine, and Others
Gerald V. Naccarelli, MD, FHRS
Penn State Hershey Heart and Vascular Institute, Hershey, PA

VT Ablation to Prevent ICD Shocks
John M. Miller, MD, FHRS
Indiana University School of Medicine, Indianapolis, IN

How Early Should We Intervene for ICD Shocks?
Vivek Y. Reddy, MD
Mount Sinai School of Medicine, New York, NY

ME10  CECA

SUCCESS IN AF ABLATION: WHAT I HAVE LEARNED

Session Description: In this session, experts will review the difficult issues related to assessing AF ablation and comparing defined techniques in the EP laboratory to distinguish successful approaches.

Chair:
Riccardo Cappato, MD, FHRS
IRCCS Policlinico San Donato, San Donato Milanese, Italy

Patient Selection
Steven C. Hao, MD, FHRS
Sutter Pacific Medical Foundation, San Francisco, CA

Techniques
Robert K. Kowal, MD, PhD, FHRS
HeartPlace/Baylor University Medical Center, Dallas, TX

Avoiding Complications
James M. Irwin, MD
Bay Heart Group, PA, Tampa, FL

ME11  CECA

RISK STRATIFICATION STRATEGIES IN PEDIATRIC AND CONGENITAL EP

Session Description: An assessment of risk of sudden death and its management in pediatric patients will be discussed from several perspectives in an interactive format.

Chair:
Steven B. Fishberger, MD, FHRS, CCDS
Miami Children’s Hospital, Miami, FL

Noninvasive Risk Stratification — HRV< SAECG, TWA
Andrew M. Davis, MBBS, MD, FHRS
Royal Children’s Hospital, Melbourne, Australia

Use of Genotyping for Risk Assessment
Martin Tristani-Firouzi, MD
University of Utah, Salt Lake City, UT

WPW Risk Stratification
Mitchell Cohen, MD, FHRS
Phoenix Children’s Hospital, Phoenix, AZ
## ME12  PPP

### TOWARD MORE OPTIMAL USE OF ICDs AND CRTs

**Session Description:** A review of current data on addressing racial, gender, and age-related disparities in the use of ICDs and CRTs.

**Chair:**
Clyde W. Yancy, MD, MSc
Northwestern University, Chicago, IL

**Addressing Racial Disparities in the Use of ICDs and CRTs**
Kevin L. Thomas, MD
Duke University, Durham, NC

**Optimal Identification of Patients in One’s Clinical Practice Who Could Benefit from an ICD and/or CRT**
Rachel Lampert, MD, FHRS
Yale University School of Medicine, New Haven, CT

**Women and Devices: Where are the Gaps, How Do We Address Them?**
Samuel F. Sears, PhD
East Carolina University, Greenville, NC

## ME13  CECA

### PIONEERS OF PEDIATRIC AND CONGENITAL EP

**Session Description:** Founders of pediatric and congenital electrophysiology practice and clinical research will be recognized. Their academic careers will be placed into the perspective of the development of the field, and the audience will have the opportunity to ask questions about the evolution of modern practice.

**Chairs:**
J. Philip Saul, MD, FHRS
Medical University of South Carolina, Charleston, SC
Edward P. Walsh, MD, FHRS
Boston Children’s Hospital, Boston, MA

**Invited Speaker:**
Grace S. Wolff, MD
University of Miami, Jackson Memorial Medical Center, Miami, FL
HEART RHYTHM 2013 CONFIRMED FACULTY

(As of December 3, 2012)

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<td>Hugh Calkins, MD, FHRS, CCDS</td>
<td>Baltimore, MD</td>
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<tr>
<td>David J. Callans, MD, FHRS, CCDS</td>
<td>Philadelphia, PA</td>
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<tr>
<td>John Camm, MD, FHRS</td>
<td>London, United Kingdom</td>
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<tr>
<td>Kevin R. Campbell, MD</td>
<td>Raleigh, NC</td>
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<tr>
<td>David S. Cannom, MD, FHRS</td>
<td>Los Angeles, CA</td>
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<tr>
<td>Bryan C. Cannom, MD</td>
<td>Rochester, MN</td>
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<tr>
<td>Michael Cao, MD</td>
<td>Los Angeles, CA</td>
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<tr>
<td>Riccardo Cappato, MD, FHRS, CCDS</td>
<td>San Donato Milanese, Italy</td>
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<td>Corrado Carbucicchio, MD</td>
<td>Milan, Italy</td>
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<tr>
<td>Roger G. Carrillo, MD, FHRS, CCDS</td>
<td>Miami, FL</td>
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<tr>
<td>Barbara Casadei, MD</td>
<td>Oxford, United Kingdom</td>
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<tr>
<td>Lon Castle, MD</td>
<td>Westlake, OH</td>
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<tr>
<td>Frank Cecchin, MD</td>
<td>Boston, MA</td>
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<td>Yong-Mei Cha, MD, FHRS</td>
<td>Rochester, MN</td>
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<tr>
<td>Tze-Fan Chao, MD</td>
<td>Taipei, Taiwan</td>
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<tr>
<td>Vijay S. Chauhan, MD</td>
<td>Toronto, Canada</td>
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<tr>
<td>Hui-Wei Sheng V. Chen, MD, PhD</td>
<td>La Jolla, CA</td>
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<td>Ming-Long Chen, MD, PhD</td>
<td>Nan Jing, China</td>
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<tr>
<td>Shih-Ann Chen, MD</td>
<td>Taipei, Taiwan</td>
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<tr>
<td>Peng-Sheng Chen, MD</td>
<td>Barcelona, Spain</td>
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<tr>
<td>Alan Cheng, MD, FHRS</td>
<td>Indianapolis, IN</td>
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<tr>
<td>Yuanna Cheng, MD, PhD</td>
<td>Baltimore, MD</td>
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<tr>
<td>Elizabeth A. Ching, RN, FHRS, CCDS</td>
<td>Cleveland, OH</td>
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<tr>
<td>Larry A. Chintz, MD</td>
<td>New York, NY</td>
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<tr>
<td>Christine C. Chiu-Man, MS, FHRS, CCDS, CEPS</td>
<td>Toronto, Canada</td>
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<tr>
<td>Vincent M. Christoffels, PhD</td>
<td>Amsterdam, Netherlands</td>
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<tr>
<td>Sumeet S. Chugh, MD, FHRS</td>
<td>Los Angeles, CA</td>
</tr>
<tr>
<td>Aman Chugh, MD</td>
<td>Ann Arbor, MI</td>
</tr>
</tbody>
</table>
Terence U. Chun, MD
Seattle, WA

Mina K. Chung, MD, FHRs
Cleveland, OH

Robin L. Clegg, MD
Calgary, Canada

Mitchell Cohen, MD, FHRs
Phoenix, AZ

Christopher R. Cole, MD, FHRs
Colorado Springs, CO

Kathryn K. Collins, MD, FHRs
Aurora, CO

Deborah L. Confolane, RN, MSN
Beverly, MA

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Gainesville, FL

Joshua M. Cooper, MD
Philadelphia, PA

Domenico Corrado, MD, PhD
Brescia, Italy

Jamie B. Conti, MD, FHRs
New York, NY

Srinivas Dukkipati, MD
Ottawa, Canada

Anne Fournier, MD
Montreal, Canada

Tom F. Fournier, MD, FHRs
Montreal, Canada

Lynne D. Foreman, RN, BSN, FHRs, CCDS
Indianapolis, IN

Richard I. Fogel, MD, FHRs, CCDS
Indianapolis, IN

Glenn I. Fishman, MD, FHRs
New York, NY

John D. Fisher, MD, FHRs, CCDS
Bronx, NY

Steven B. Fishberger, MD, FHRs, CCDS
Chicago, IL

Frank A. Fish, MD
Dallas, TX

Peter S. Fischbach, MD, MA
Ithaca, NY

Marcio J. Figueiredo, MD
Indianapolis, IN

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Madison, WI

Michael R. Gold, MD, PhD, FHRs
Minneapolis, MN

Aileen M. Ferrick, ACNP, FHRs
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Marlton, NJ

David S. Feldman, MD, PhD
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Michael E. Field, MD, FHRs
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Marcio J. Figueiredo, MD
Campinas, Brazil

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F. Roosevelt Gilliam, MD, FHRs, CCDS
San Francisco, CA

Edward P. Gerstenfeld, MD, FHRs
San Francisco, CA

F. Roosevelt Gilliam, MD, FHRs, CCDS
San Francisco, CA

Susan P. Etheridge, MD
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U. A. Mark Estes, MD, FHRs, CCDS
New York, NY

Sabine Ernst, MD
London, United Kingdom

N. A. Mark Estes, MD, FHRs, CCDS
Boston, MA

Susan P. Etheridge, MD
Salt Lake City, UT

Derek V. Exner, MD, MPH, FHRs
Calgary, Canada

Michael D. Ezekowitz, MD
Wynnewood, PA

Gregory K. Feld, MD, FHRs, CCDS
Las Vegas, NV

Steve Fowler, MD
New York, NY

Jennifer A. Fraser, RN, FHRs, CCDS
Peterborough, Canada

Patricio A. Frias, MD
Atlanta, GA

Mark Friedberg, MD
Toronto, Canada

Richard A. Friedman, MD, RN, FHRs, CCDS
New York, NY

Paul A. Friedman, MD, FHRs
Rochester, MN

Nick Gall, MD
London, United Kingdom

Leonard I. Ganz, MD, FHRs
Pittsburgh, PA

Fermin C. Garcia, MD
Philadelphia, PA

Maurizio Gasparini, MD
Rozzano-Milan, Italy

Linda Gates-Stribley, CCS-P, ACS-CA
Indianapolis, IN

Laszio A. Geiler, MD
Budapest, Hungary

Alfred L. George, MD
Nashville, TN

Donna Genter, RN, MN, CCDS, CEPS
Seattle, WA

Robin E. Germany, MD
Oklahoma City, OK

Edward P. Gerstenfeld, MD, FHRs
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F. Roosevelt Gilliam, MD, FHRs, CCDS
San Francisco, CA

Anne M. Gillis, MD, FHRs
Calgary, Canada

Robert F. Gilmour, PhD
Ithaca, NY

Kathryn A. Glatter, MD, FHRs
Sacramento, CA

Mary J. Gleva, MD, FHRs
Saint Louis, MO

Michael Gilkinson, MD
Ramat Gan, Israel

Taya Golitzer, MD
Hackensack, NJ

Michael R. Gold, MD, PhD, FHRs
Charleston, SC

Jeffrey J. Goldberger, MD, FHRs
Chicago, IL

Ilia Goldenberg, MD
Rochester, NY

Nora Goldschlager, MD, FHRs
San Francisco, CA

Michael H. Gollob, MD
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Mario D. Gonzalez, MD, FHRs
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Munich, Germany

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Hershey, PA
OFFICIAL EDUCATIONAL SATELLITE SYMPOSIA

TUESDAY, MAY 7, 2013

7 a.m. – 4:30 p.m.

THE 26th ANNUAL FELLOWS COURSE: INTERPRETING THE UNKNOWN ELECTROGRAM

Jointly sponsored by Postgraduate Institute for Medicine and Medtelligence, LLC

This independent educational activity is supported by an educational grant and in-kind support of the large calipers from Bard Electrophysiology

This one-day intensive course has been designed to educate participants on best practices to effectively develop approaches for diagnosing many arrhythmias based on ECG and electrogram tracings, and review key factors in understanding arrhythmogenic electrocardiographic features. Now in its 26th year, an outstanding faculty lead by Dr. Eric Prystowsky will engage the participants in a highly interactive format. A full luncheon and coffee breaks will be provided.

Accreditation Statement: This activity has been planned and implemented in accordance with the Essential Areas and policies of the Accreditation Council for Continuing Medical Education through the joint sponsorship of Postgraduate Institute for Medicine and Medtelligence, LLC. The Postgraduate Institute for Medicine is accredited by the ACCME to provide continuing medical education for physicians.

11 a.m. – 1 p.m.

THE FUTURE OF ELECTROPHYSIOLOGY

Sponsored by MediaSphere Medical, LLC and Cine-Med

Supported by an unrestricted educational grant provided by St. Jude Medical

This symposium will review advancements in the ever-evolving field of electrophysiology that will meet current and future challenges for the achievement of optimal outcomes in daily practice. The expert faculty will share their insights about innovative approaches and best practices, which will profoundly impact the future of patient care.

The engaging lecture topics, complemented with interactive discussions, will address important clinical decision-making strategies for reducing Fluoroscopy in the EP Lab, assess emerging techniques to effectively manage patients with VT, and investigate the impact of advances in 3D Mapping for Model Creation and Mapping Display.

Accreditation Statement: This activity has been planned and implemented in accordance with the essential areas and policies of the Accreditation Council for Continuing Medical Education through joint sponsorship of Cine-Med and MediaSphere Medical. Cine-Med is accredited by the ACCME to provide continuing medical education for Physicians.

MediaSphere Medical designates this educational activity for a maximum of 1 AMA PRA Category 1 Credit(s). Physicians should only claim credit commensurate with the extent of their participation in the activity.

WEDNESDAY, MAY 8, 2013

11 a.m. – 1 p.m.

10th ANNUAL LEARN FROM THE EXPERTS — APPROACH TO THE UNKNOWN TRACING

Supported by an unrestricted educational grant provided by Medtronic, LLC

This activity is specific to the needs of Fellows-in-Training

Utilizing a case-based approach, this course is designed to instruct EP Fellows on the interpretation of electrocardiographic and intracardiac tracings. The course will include discussions on mechanisms, diagnosis, and treatment of arrhythmias. Discussion by faculty will accompany the case presentation.

7:30 – 9:30 p.m.

THE 25th ANNUAL MICHEL MIROWSKI SUDDEN CARDIAC DEATH SYMPOSIUM AND AWARD PRESENTATION

Sponsored by Medscape, LLC

Supported by an unrestricted educational grant provided by Boston Scientific Corporation

The Mirowski Symposium began in 1989 to honor the pioneering work of Dr. Michel Mirowski in the development of the implantable cardioverter defibrillator. The Mirowski Award for Excellence in Clinical Cardiology and Electrophysiology is given annually to recognize an individual who has made a fundamental contribution to the understanding and/or treatment of cardiac arrhythmias. This year’s Symposium marks the 25th presentation of the Mirowski Award and will focus on the pioneering vision and innovative strategies that will shape and advance the role of electrophysiology and clinical cardiology in 2013 and beyond.

Accreditation Statement: Medscape, LLC is accredited by the Accreditation Council for Continuing Medical Education (ACCMC) to provide continuing medical education for physicians.

Medscape, LLC designates this live activity for a maximum of 1.25 AMA PRA Category 1 Credit(s)™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.
EXHIBIT HALL HIGHLIGHTS

TECHNICAL EXHIBITION

The Exhibit Hall is the place to be for technology and innovation! More than 130 exhibitors will be displaying and demonstrating the latest arrhythmia products and services, and opportunities to network with thousands of physicians, scientists, allied professionals, and industry leaders will abound. By popular demand, the Exhibit Hall will once again open on Wednesday, May 8 at 6 p.m., kicking off with the Featured Poster Session & Reception in Poster Town.

Wednesday, May 8  6 – 7:30 p.m.
Thursday, May 9   9:30 a.m. – 5 p.m.
Friday, May 10   9:30 a.m. – 5 p.m.

HEART RHYTHM PLACE | BOOTH 739

Heart Rhythm Place is the official HRS exhibit booth and your source for the latest Society tools and resources for providers, patients, and caregivers. Heart Rhythm Place will feature:

■ New clinical documents and guidelines
■ Information on educational resources and programs
■ Membership services and information about FHRS
■ Free issues of the HeartRhythm Journal
■ Meet the Authors networking opportunities
■ Health Policy news and information
■ Coding and Reimbursement services
■ International Board of Heart Rhythm Examiners (IBHRE)
■ Heart Rhythm On Demand
■ Logo merchandise (purchase through the HRS online store)
■ Patient education materials and more!

RHYTHMS IN TIME

Rhythms in Time, a component of the Furman Fund, is the Heart Rhythm Society’s history theatre. The Furman Fund was established in 2007 to promote founding father Dr. Seymour (Sy) Furman’s visions: preserve an historic view of cardiac pacing and electrophysiology; inspire clinicians, students, and patients with the rhythmic wonder of the human heart; and educate the health care and patient community about the field of heart rhythm management, its history of innovation, and future potential for improving and extending the lives of cardiac arrhythmia patients. These objectives are enhanced by the awarding of three travel scholarships to the Heart Rhythm Society’s annual Scientific Sessions, supported by generous donors.

This year’s Rhythms in Time educational EP History Session will focus on Dr. Gordon Moe, Director of Research of the Masonic Medical Research Laboratory in Utica, NY.

As part of the history theatre, devices on loan from the Furman Estate and Heart Rhythm Society history collection will also be showcased at Heart Rhythm Place.
RHYTHM THEATRES

INDUSTRY-EXPERT PRESENTATIONS

The Exhibit Hall will feature two Rhythm Theatres, providing even more opportunities for attendees to learn about new data, products, and services. Come hear industry expert presentations on the latest clinical information and innovation.

(Note: The Industry-Expert Presentations are not approved for Continuing Medical Education [CME] or Continuing Education [CE] credit.)

EXHIBITOR ADVISORY COUNCIL

The Heart Rhythm Society Exhibitor Advisory Council (EAC) is comprised of corporate representatives from companies participating as exhibitors in the Annual Scientific Sessions. The EAC serves a critical role in educating, informing, and advising the Heart Rhythm Society leadership regarding the successful operation of the Society’s Annual Technical Exhibit Program.

EAC Chair: Jill Schmitt, Medtronic, Inc.

Bill Abboud, ST Cardio Technologies
Carol Bethea, St. Jude Medical
Noreen Browne, Perminova Inc.
Karen Gilsath, Boston Scientific
Terrie Holahan, AtriCure, Inc.
Larry Lawson, eCardio Diagnostics
Mark LeRose, Protech Leaded Eyewear, Inc.
Laura MacGuire, GE Healthcare
Jacky Melikian, BIOTRONIK
Millicent Victorian, Stereotaxis, Inc.
Annie Yao, Biosense Webster

(As of February 1, 2013)
Purchase Heart Rhythm On Demand during Your Registration and Save up to $100!

Heart Rhythm On Demand is a comprehensive digital library of more than 250 sessions from the Heart Rhythm 2013 Scientific Sessions.

- View recordings online of the presentations—presenter slides, videos, or animation included by the presenters—and hear their voices—as if you were in the room
- Access online content as early as 24 hours after each session ends
- Earn additional CME credits on select sessions above and beyond what you earn at the meeting
- View content on your mobile device—iPhone®, iPad®, Android™, and tablets.
- Take the content with you while traveling using a companion USB drive and downloadable MP3s
- Download PDFs of the speakers’ slides

Conveniently order now as part of your registration, avoid the lines, and save up to $100 off the onsite price!

Purchase Heart Rhythm On Demand as part of your registration at http://www.hrsonline.org/HRS13Registration
REGISTRATION INFORMATION

IMPORTANT DATES

<table>
<thead>
<tr>
<th>Date</th>
<th>Event Description</th>
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<tbody>
<tr>
<td>January 9, 2013</td>
<td>Registration Open for All Attendees</td>
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<tr>
<td>March 9, 2013</td>
<td>Early Registration Deadline</td>
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<tr>
<td>April 12, 2013</td>
<td>Deadline to Cancel Registration with Refund</td>
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<td></td>
<td>Deadline to Request a Registration Substitution</td>
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<tr>
<td>May 4, 2013</td>
<td>Advance Registration Deadline</td>
</tr>
</tbody>
</table>

CHOOSE ONE OF FOUR WAYS TO REGISTER!

Online: [www.HRSonline.org/Sessions](http://www.HRSonline.org/Sessions)

By Mail/Fax: Please visit [www.HRSonline.org/Sessions](http://www.HRSonline.org/Sessions) to download a copy of the paper registration form.

By Phone: 800-748-5052 or 508-743-0529

**Register Early!** Registrations are processed on a first-come, first-served basis. Seating is limited for ticketed sessions, and the sessions are expected to reach capacity. All requested information must be provided and complete payment received for registration to be processed.

The Heart Rhythm Society accepts the following payment methods: American Express, VISA, MasterCard, and checks drawn by a United States bank in United States dollars. The registrant MUST pay all fees or charges connected with registration at the time of registration. Credit cards will be charged immediately. Checks MUST be made payable to the Heart Rhythm Society.

Please note: Confirmation is provided via e-mail within 72 hours of receipt of your registration including full payment and any documentation needed. If you do not receive confirmation within 72 hours, please contact Convention Data Services (CDS) at 800-748-5052 or 508-743-0529 or HRS@xpressreg.com.

MEMBER REGISTRATION REQUIREMENTS

Become a member now at [www.HRSonline.org/Join](http://www.HRSonline.org/Join) and save up to $360 on meeting registration. Individuals applying for membership with the Heart Rhythm Society during the Heart Rhythm 2013 registration period must have their completed application packet (application, CV, and dues) approved by the Society prior to registering for Heart Rhythm 2013. The Society will not reimburse the difference between the member and nonmember rates to Heart Rhythm 2013 attendees whose completed applications are approved after they register for Heart Rhythm 2013. If you have questions regarding your membership status or would like information about Heart Rhythm Society membership, please contact Membership@HRSonline.org.

FELLOWS-IN-TRAINING NON-MEMBER DOCUMENTATION

Non-member Physicians-in-Training, Scientists-in-Training, Interns, and Residents must submit a letter from their department head (stating status of their fellowship with dates of service) along with their registration. This documentation must be received within two weeks of registering for Heart Rhythm 2013, or the registration fee will change to the Non-member Physician rate. In addition to your name, the documentation should also include your Heart Rhythm Society Customer ID Number. Please fax or mail documentation to the registration company.

UNDERGRADUATE STUDENTS DOCUMENTATION

Non-degreed Undergraduate Students may register in advance of Heart Rhythm 2013. Undergraduate Students must present their student identification, current through May 31, 2013, at the on-site registration counter in Lobby A of the CCC.

ON-SITE REGISTRATION

On-site registration begins Tuesday, May 7, at 3 p.m. in Lobby A of the CCC. Accepted credit cards include: American Express, VISA, and MasterCard. Checks MUST be made payable to the Heart Rhythm Society drawn by a United States bank in U.S. dollars.

Non-member Physicians-in-Training, Scientists-in-Training, Interns, and Residents registering on site must bring the required documentation (see above).
REGISTRATION CATEGORIES AND FEES


ONE-DAY REGISTRATION

One-day registration options are available for Wednesday, Thursday, Friday, or Saturday. Access to non-ticketed sessions and the Technical Exhibits is for the day of purchase only. Saturday’s one-day registration does not include the Technical Exhibits. Ticketed functions are extra for all one-day registrants.

HEART RHYTHM 2013

SCIENTIFIC SESSIONS FEE CATEGORIES

<table>
<thead>
<tr>
<th>Faculty/Chairs – Invited speakers or chairs of plenary, clinical tutorials, featured symposia, debates, and core curricula sessions. Includes chairs for abstract sessions but does not apply to poster or abstract presenters.</th>
<th>Early through March 9</th>
<th>Advance March 10 – May 4</th>
<th>On Site May 5 – May 11</th>
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<tr>
<th>Abstract Presenters – Invited poster and abstract submitters. Applies to first/primary author only.</th>
<th>$355</th>
<th>$355</th>
<th>$355</th>
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<tbody>
<tr>
<td>Physician Members – Physician members of the Heart Rhythm Society.</td>
<td>$755</td>
<td>$865</td>
<td>$895</td>
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<tr>
<td>Industry Members – Industry members of the Heart Rhythm Society.</td>
<td>$755</td>
<td>$865</td>
<td>$895</td>
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<tr>
<td>Scientist Members – Scientist members of the Heart Rhythm Society or members of the Cardiac Electrophysiology Society (CES).</td>
<td>$395</td>
<td>$485</td>
<td>$495</td>
</tr>
<tr>
<td>Allied Health Professional Members – Allied Professional members of the Heart Rhythm Society, including physician assistants and hospital administrators.</td>
<td>$395</td>
<td>$485</td>
<td>$495</td>
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<tr>
<td>Affiliate Members – Physicians-in-Training and Scientists-in-Training who are members of the Heart Rhythm Society.</td>
<td>$275</td>
<td>$385</td>
<td>$495</td>
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<tr>
<td>Emeritus Members – Emeritus members of the Heart Rhythm Society.</td>
<td>$0</td>
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<tr>
<td>Physician Non-members – Physicians who hold an MD or equivalent degree.</td>
<td>$995</td>
<td>$1,135</td>
<td>$1,155</td>
</tr>
<tr>
<td>Industry Non-members – Employees of organizations or companies that do not provide direct patient care and/or companies that manufacture and sell device, pharmaceutical, or other products.</td>
<td>$995</td>
<td>$1,135</td>
<td>$1,155</td>
</tr>
<tr>
<td>Scientist Non-members – Scientists who hold a doctoral degree and a faculty position at an academic institution.</td>
<td>$785</td>
<td>$895</td>
<td>$915</td>
</tr>
<tr>
<td>Allied Health Professional Non-members – Non-physician and non-scientist professionals actively involved with the technical aspects of pacemaker/ICD or the performance of electrophysiological techniques who are affiliated with an academic institution/clinical practice setting or equivalent. Includes nurses, technicians, physician assistants, and hospital administrators.</td>
<td>$595</td>
<td>$725</td>
<td>$735</td>
</tr>
<tr>
<td>Fellow-in-Training Non-members – Physicians-in-Training (MDs enrolled in an ACGME training program or equivalent) and Scientists-in-Training (graduate students or post-doctoral fellows actively involved in research training) who are not members of the Heart Rhythm Society. Requires a letter from department head stating status and dates of internship or residency; degree includes MD, PhD.</td>
<td>$595</td>
<td>$725</td>
<td>$735</td>
</tr>
<tr>
<td>Exhibiting Company Personnel Attending Scientific Sessions – Non-member physicians or scientists employed by a Heart Rhythm 2013 exhibiting company. Requires booth number.</td>
<td>$785</td>
<td>$885</td>
<td>$915</td>
</tr>
<tr>
<td>Group – International groups of 10 or more organized by travel agents or tour operators. Does not apply to Invited Faculty/Chairs, Abstract Presenters, and/or Society members.</td>
<td>$935</td>
<td>$1,075</td>
<td>$1,095</td>
</tr>
<tr>
<td>Undergraduate Students – An undergraduate student enrolled in an accredited college or university. Requires copy of student identification current through May 31, 2013.</td>
<td>$175</td>
<td>$175</td>
<td>$175</td>
</tr>
<tr>
<td>Guests – A spouse, significant other, guest, or family member of the registrant, over the age of 16, who is not involved in or studying the fields of cardiology, electrophysiology, or pacing. Good for admission to the Exhibit Hall, poster sessions, and President’s Reception ONLY. Guests cannot attend sessions and are not eligible for credits. Children under 16 years of age may not enter the Exhibit Hall at any time.</td>
<td>$85</td>
<td>$85</td>
<td>$85</td>
</tr>
</tbody>
</table>

Not a member? Join now at www.HRSonline.org/join and save up to $360 on registration!
### ONE-DAY REGISTRATION (EARLY, ADVANCE, AND ON SITE)

<table>
<thead>
<tr>
<th>Membership Type</th>
<th>Wednesday or Saturday</th>
<th>Thursday or Friday</th>
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</thead>
<tbody>
<tr>
<td>Members</td>
<td>$295</td>
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<tr>
<td>Non-Members</td>
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### AF SUMMIT with HR 2013 REGISTRATION (EARLY, ADVANCE, AND ON SITE)

<table>
<thead>
<tr>
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<th>Price</th>
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</thead>
<tbody>
<tr>
<td>Members (Physicians, Industry, Scientists, and Emeritus)</td>
<td>$335</td>
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<tr>
<td>Members (Allied Health Professionals, including Physician Assistants and Hospital Administrators)</td>
<td>$135</td>
</tr>
<tr>
<td>Affiliate Members</td>
<td>Complimentary</td>
</tr>
<tr>
<td>Non-members (Physicians, Scientists, Industry Exhibiting Company Personnel Attending Scientific Sessions, and Exhibitor Conference)</td>
<td>$445</td>
</tr>
<tr>
<td>Non-members (Allied Health Professionals, Physician Assistants, Hospital Administrators, and Undergraduate Students)</td>
<td>$235</td>
</tr>
<tr>
<td>Non-member Fellows- or Scientists-in-Training</td>
<td>$135</td>
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### AF SUMMIT ONLY (EARLY, ADVANCE, AND ON SITE)

<table>
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<th>Membership Type</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Members (Physicians, Industry, Scientists, and Emeritus)</td>
<td>$525</td>
</tr>
<tr>
<td>Members (Allied Health Professionals, including Physician Assistants and Hospital Administrators)</td>
<td>$295</td>
</tr>
<tr>
<td>Non-members (Physicians, Scientists, Industry Exhibiting Company Personnel Attending Scientific Sessions, and Exhibitor Conference)</td>
<td>$625</td>
</tr>
<tr>
<td>Non-members (Allied Health Professionals, Physician Assistants, Hospital Administrators, Fellows-or Scientists-in-Training, and Undergraduate Students)</td>
<td>$395</td>
</tr>
<tr>
<td>Non-member Fellows- or Scientists-in-Training</td>
<td>$135</td>
</tr>
</tbody>
</table>

### VT/VF SUMMIT with HR 2013 REGISTRATION (EARLY, ADVANCE, AND ON SITE)

<table>
<thead>
<tr>
<th>Membership Type</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Members (Physicians, Industry, Scientists, and Emeritus)</td>
<td>$335</td>
</tr>
<tr>
<td>Members (Allied Health Professionals, including Physician Assistants and Hospital Administrators)</td>
<td>$135</td>
</tr>
<tr>
<td>Affiliate Members</td>
<td>Complimentary</td>
</tr>
<tr>
<td>Non-members (Physicians, Scientists, Industry Exhibiting Company Personnel Attending Scientific Sessions, and Exhibitor Conference)</td>
<td>$445</td>
</tr>
<tr>
<td>Non-members (Allied Health Professionals, Physician Assistants, Hospital Administrators, Fellows-or Scientists-in-Training, and Undergraduate Students)</td>
<td>$235</td>
</tr>
<tr>
<td>Non-member Fellows- or Scientists-in-Training</td>
<td>$135</td>
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</tbody>
</table>

### VT/VF SUMMIT ONLY (EARLY, ADVANCE, AND ON SITE)

<table>
<thead>
<tr>
<th>Membership Type</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Members (Physicians, Industry, Scientists, and Emeritus)</td>
<td>$525</td>
</tr>
<tr>
<td>Members (Allied Health Professionals, including Physician Assistants and Hospital Administrators)</td>
<td>$295</td>
</tr>
<tr>
<td>Non-members (Physicians, Industry, Scientists, and Exhibiting Company Personnel NOT Attending Scientific Sessions)</td>
<td>$625</td>
</tr>
<tr>
<td>Non-members (Allied Health Professionals, Physician Assistants, Hospital Administrators, Fellows-or Scientists-in-Training, and Undergraduate Students)</td>
<td>$395</td>
</tr>
</tbody>
</table>

### TICKETED FUNCTIONS (EARLY, ADVANCE, AND ON SITE)

<table>
<thead>
<tr>
<th>Function</th>
<th>Members</th>
<th>Non-Members</th>
</tr>
</thead>
<tbody>
<tr>
<td>WEP Luncheon</td>
<td>$65</td>
<td>$65</td>
</tr>
<tr>
<td>Meet-the-Experts</td>
<td>$85</td>
<td>$85</td>
</tr>
</tbody>
</table>
FREQUENTLY ASKED QUESTIONS

WHAT SESSIONS REQUIRE ADDITIONAL FEES?
Additional fees are required for the AF Summit and VT/VF Summit on Wednesday, the Meet-the-Experts Luncheons (ME) on Thursday and Friday, and the Women in EP Networking Luncheon on Friday.

WHAT IS MY HEART RHYTHM SOCIETY CUSTOMER ID NUMBER? WHERE DO I FIND IT?
The Heart Rhythm Society Customer ID Number is a unique, six-digit number assigned to your customer record. If you are a Heart Rhythm Society member or a previous Scientific Sessions attendee, this number was provided with your registration notice. If you do not have your Customer ID Number, contact the Heart Rhythm Society at Info@HRSonline.org.

I AM NOT A SOCIETY MEMBER. HOW DO I DETERMINE IF I HAVE A CUSTOMER ID NUMBER?
You probably still have a customer record. Log in to www.HRSonline.org/MyHRS to view it or contact the Heart Rhythm Society at Info@HRSonline.org or enter your last name and e-mail address to register online.

HOW DO I CORRECT OUTDATED CONTACT INFORMATION IN MY CUSTOMER RECORD?
Log in or create an account at www.HRSonline.org/MyHRS and click “Update/Edit My Profile.” Changes to your profile will be visible in the registration database within one day.

WHEN WILL I RECEIVE MY BADGE AND TICKETS?
You may pick up your badge and tickets at registration in Lobby A of the CCC.

WHAT HAPPENS IF I REGISTER FOR THE MEETING AND THEN FIND OUT I AM AN ABSTRACT PRESENTER? DO I GET A REFUND?
Yes, your Scientific Sessions registration fee, less the $355 Abstract Presenter fee, will be refunded automatically by CDS. This applies only to the first/primary author. There are additional fees for the AF Summit, VT/VF Summit, Meet-the-Experts Luncheons, and the Women’s in EP Networking Luncheon.

GROUP REGISTRATION
If you are registering and housing a group of more than 10 people, contact the Group Coordinator at CDS at 800-748-5052 or 508-743-0529. Special group registration guidelines and instructions will be sent directly to you.

CANCELLATIONS AND REFUNDS
In order to receive a refund, written notification of cancellation must be received by CDS on or before Friday, April 12, 2013. A $75 processing fee will be withheld. Telephone requests cannot be honored. Fees will not be refunded for no-shows. No refunds will be issued for cancellations received after April 12, 2013 at 11:59 p.m. EDT.

SUBSTITUTIONS
Written notification of substitutions must be received by CDS on or before April 12, 2013. The Heart Rhythm Society reserves the right to collect or retain the balance of registration fees in the event that the substitute’s membership category differs from that of the original registrant. Submit substitutions in writing to:

Heart Rhythm 2013
C/o Convention Data Services
107 Waterhouse Road
Bourne, MA 02532 USA
Fax: 508-743-0529
E-mail: HRS@xpressreg.com
GENERAL AND HOTEL INFORMATION

GENERAL INFORMATION

AMERICANS WITH DISABILITIES ACT STATEMENT
The Heart Rhythm Society supports the Americans with Disabilities Act. Should you require specific aids or other services to accommodate your participation at Heart Rhythm 2013, please indicate so at the time of registration. A staff member will contact you to assist with special arrangements.

AGE POLICY
Due to liability restrictions, no one under the age of 16, including infants and toddlers, will be permitted to attend Heart Rhythm 2013 or to enter the Exhibit Hall at any time.

ATTIRE
Business dress is encouraged for all events at the Scientific Sessions. It is often difficult to control the temperature in a large ballroom, so plan to dress in layers and/or bring a sweater or jacket. Comfortable shoes are a must!

DIETARY NEEDS
If you are attending either the AF Summit or VT/VF Summit on Wednesday, Meet-the-Experts Luncheons, and/or the Women in EP Networking Luncheon on Friday and have special dietary needs such as kosher or vegetarian, please indicate so at the time of registration. Kosher or vegetarian meals will not be available unless notification is provided in advance. Special meal tickets will be included in your registration packet. Kosher meals must be requested by May 1, 2013.

LANGUAGE
The official language of the Annual Scientific Sessions is English. Simultaneous translation will not be available.

LOCATION
Most official sessions and events will be held at the Colorado Convention Center (CCC) which is located at 700 14th Street, Denver, CO. Some sessions may be held at the Hyatt Colorado Convention Center and the Embassy Suites Denver.

MEDIA
The Press Room will be located in Room 610 of the CCC. Inquiries regarding press badges, news releases, and media briefings should be directed to Kennesha Baldwin, Manager, Communications and Public Relations, at media@HRSonline.org. The Press Room opens on Tuesday, May 7, 2013, at 3 p.m.

SHUTTLE SERVICE
Continuous shuttle bus service will be provided from most of the official hotels to the CCC throughout the meeting. Shuttle service will begin on Wednesday, May 8 and continue through Saturday, May 11. Shuttle service will not be available to designated hotels within walking distance of the CCC. Complete route information and schedules will be available in the Final Program.

TRAVEL INFORMATION
For updated information on travel discounts, please visit www.HRSonline.org/Sessions.

VISA/INTERNATIONAL ATTENDEE INFORMATION
If you are a non-U.S. resident traveling from outside the United States, you may need a visa to attend Heart Rhythm 2013. To assist in your visa request, you may request a letter of invitation to attend Heart Rhythm 2013. Please note: requirements to travel visa-free changed in 2008; the Department of Homeland Security (DHS) has implemented the Electronic System for Travel Authorization (ESTA), a fully automated, electronic system for screening passengers before they begin travel to the United States. ESTA applications may be submitted at any time prior to travel to the United States, and VWP travelers are encouraged to apply for authorization as soon as they begin to plan a trip to the United States. For more information on applying for a visa, visit www.HRSonline.org/Sessions.

Letters of Invitation, for visa purposes, will be provided online. It should be understood that the invitation is meant to help visitors obtain a visa and is not a commitment on the part of the Society to provide any financial support. The decision to grant a visa belongs solely to the embassy/consulate. Should your application be denied, the Heart Rhythm Society cannot change the decision of the government agency.
HOTEL INFORMATION
Housing Deadline is Friday, April 12, 2013

HOTEL ACCOMMODATIONS
Travel Planners, the designated Heart Rhythm 2013 vendor, will administer housing. Blocks of rooms have been reserved at major hotels in Denver. See information about each hotel on page 46. To receive these special Heart Rhythm Society rates, you must obtain your housing through Travel Planners.

In order to obtain housing, you must be registered for Heart Rhythm 2013. Please register for both your hotel and the Scientific Sessions by going to www.HRSonline.org/Sessions.

- All reservations require deposits of one night’s room and tax. Deposits will be charged by the hotel on or around April 5, 2013.
- Deposits may be made in the form of a credit card which must be provided at the time of reservation. Checks must be drawn on a U.S. bank and made payable to Travel Planners and sent to 381 Park Avenue South, New York, NY 10016 USA.
- Confirmation will be sent by Travel Planners shortly after your reservation is made.
- Hotel rooms are assigned on a first-come, first-served basis as received by Travel Planners.

REFUND OF HOUSING DEPOSIT
Your housing deposit will be forfeited entirely if cancellations are not made in accordance with the individual hotel cancellation policy, which appears in your housing confirmation.

HOTEL CHANGES/CANCELLATIONS
Up to three days prior to your arrival, changes to hotel reservations can be made online or by calling Travel Planners at 888-337-2665 or 212-532-1660 or via email to HRS@tphousing.com. All changes are subject to hotel availability. Within three days of your arrival, changes must be made by contacting the assigned hotel directly.

ROOM TAXES/RATES
Room rates do not include the local taxes for Denver, CO. Some hotels may charge additional fees for rooms with more than two occupants. Note that early checkout from hotels may result in a penalty charge. Check with your hotel directly.

Acceptable credit cards are VISA, MasterCard, and American Express. Wire transfers cannot be accepted.

QUESTIONS?
About Heart Rhythm 2013?
Visit www.HRSonline.org/Sessions

About Heart Rhythm 2013 Registration? Contact CDS at 800-748-5052 or 508-743-0529 (outside North America) or email HRS@xpressreg.com.

About Heart Rhythm 2013 Housing?
Contact Travel Planners at 888-337-2665 or 212-532-1660 (outside North America) or email HRS@tphousing.com. Pre-registration is required.
## Denver Accommodations

### Downtown Hotels

<table>
<thead>
<tr>
<th>Hotel Name</th>
<th>Single Rate From</th>
<th>Room Service</th>
<th>Fitness Center</th>
<th>Parking</th>
<th>Shuttle Service</th>
<th>Internet</th>
<th>Distance from CC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brown Palace Hotel and Spa</td>
<td>$289</td>
<td>24 Hours</td>
<td>At Comfort Inn DT</td>
<td>$</td>
<td>Yes</td>
<td>$13.95</td>
<td>5.0 Blocks</td>
</tr>
<tr>
<td>Comfort Inn Downtown</td>
<td>$169</td>
<td>24 Hours</td>
<td>Yes</td>
<td>$</td>
<td>Yes</td>
<td>Free</td>
<td>5.0 Blocks</td>
</tr>
<tr>
<td>Courtyard by Marriott Denver Downtown</td>
<td>$216</td>
<td>No</td>
<td>Yes</td>
<td>$</td>
<td>No</td>
<td>Free</td>
<td>4.0 Blocks</td>
</tr>
<tr>
<td>Crowne Plaza</td>
<td>$168</td>
<td>Yes</td>
<td>Yes</td>
<td>$</td>
<td>No</td>
<td>Free</td>
<td>2.0 Blocks</td>
</tr>
<tr>
<td>The Curtis, a Doubletree Hotel by Hilton</td>
<td>$206</td>
<td>Yes</td>
<td>Yes</td>
<td>$</td>
<td>No</td>
<td>Free</td>
<td>2.0 Blocks</td>
</tr>
<tr>
<td>Denver Marriott City Center</td>
<td>$244</td>
<td>Yes</td>
<td>Yes</td>
<td>$</td>
<td>No</td>
<td>$12.95</td>
<td>4.0 Blocks</td>
</tr>
<tr>
<td>Embassy Suites Denver Downtown</td>
<td>$243</td>
<td>Yes</td>
<td>Yes</td>
<td>$</td>
<td>No</td>
<td>.02 Blocks</td>
<td></td>
</tr>
<tr>
<td>Grand Hyatt Denver</td>
<td>$225</td>
<td>24 Hours</td>
<td>Yes</td>
<td>$</td>
<td>No</td>
<td>$9.99</td>
<td>4.0 Blocks</td>
</tr>
<tr>
<td>Hampton Inn and Suites Downtown</td>
<td>$188</td>
<td>No</td>
<td>Yes</td>
<td>$</td>
<td>Yes</td>
<td>Free</td>
<td>8.0 Blocks</td>
</tr>
<tr>
<td>Hampton Inn and Suites Downtown CC</td>
<td>$220</td>
<td>Yes</td>
<td>Yes</td>
<td>$</td>
<td>No</td>
<td>Free</td>
<td>2.0 Blocks</td>
</tr>
<tr>
<td>Hilton Garden Inn Downtown</td>
<td>$213</td>
<td>Yes</td>
<td>Yes</td>
<td>$</td>
<td>No</td>
<td>Free</td>
<td>1.0 Block</td>
</tr>
<tr>
<td>Homewood Suites Denver Downtown</td>
<td>$235</td>
<td>Yes</td>
<td>Yes</td>
<td>$</td>
<td>No</td>
<td>Free</td>
<td>2.0 Blocks</td>
</tr>
<tr>
<td>Hotel Teatro</td>
<td>$253</td>
<td>24 Hours</td>
<td>Yes</td>
<td>$</td>
<td>No</td>
<td>Free</td>
<td>2.0 Blocks</td>
</tr>
<tr>
<td>Hyatt Regency Denver CCC</td>
<td>$225</td>
<td>Yes</td>
<td>Yes</td>
<td>$</td>
<td>No</td>
<td>$9.99</td>
<td>0.5 Block</td>
</tr>
<tr>
<td>Magnolia Hotel</td>
<td>$221</td>
<td>Yes</td>
<td>Yes</td>
<td>$</td>
<td>No</td>
<td>Free</td>
<td>4.0 Blocks</td>
</tr>
<tr>
<td>Oxford Hotel</td>
<td>$229</td>
<td>Yes</td>
<td>Yes</td>
<td>Free</td>
<td>Yes</td>
<td>Free</td>
<td>6.0 Miles</td>
</tr>
<tr>
<td>Residence Inn Denver City Center</td>
<td>$210</td>
<td>Yes</td>
<td>Yes</td>
<td>$</td>
<td>Yes</td>
<td>Free</td>
<td>6.0 Blocks</td>
</tr>
<tr>
<td>Residence Inn Denver Downtown</td>
<td>$194</td>
<td>No</td>
<td>Yes</td>
<td>Free</td>
<td>Yes</td>
<td>Free</td>
<td>2.0 Miles</td>
</tr>
<tr>
<td>Ritz-Carlton Denver</td>
<td>$364</td>
<td>24 Hours</td>
<td>Yes</td>
<td>$</td>
<td>Yes</td>
<td>$9.95</td>
<td>7.0 Miles</td>
</tr>
<tr>
<td>Sheraton Denver Hotel</td>
<td>$223</td>
<td>Yes</td>
<td>Yes</td>
<td>$</td>
<td>No</td>
<td>$10.72</td>
<td>5.0 Blocks</td>
</tr>
<tr>
<td>The Warwick Hotel</td>
<td>$261</td>
<td>24 Hours</td>
<td>Yes</td>
<td>$</td>
<td>Yes</td>
<td>$9.95</td>
<td>1.0 Mile</td>
</tr>
<tr>
<td>Towne Place Suites by Marriott</td>
<td>$169</td>
<td>No</td>
<td>Yes</td>
<td>Free</td>
<td>Yes</td>
<td>Free</td>
<td>2.4 Miles</td>
</tr>
<tr>
<td>Westin Denver Downtown</td>
<td>$259</td>
<td>Yes</td>
<td>Yes</td>
<td>$</td>
<td>Yes</td>
<td>$10.67</td>
<td>7.0 Blocks</td>
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</tbody>
</table>

### Cherry Creek Hotels

<table>
<thead>
<tr>
<th>Hotel Name</th>
<th>Single Rate From</th>
<th>Room Service</th>
<th>Fitness Center</th>
<th>Parking</th>
<th>Shuttle Service</th>
<th>Internet</th>
<th>Distance from CC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Courtyard by Marriott Cherry Creek</td>
<td>$178</td>
<td>No</td>
<td>Yes</td>
<td>Free</td>
<td>Yes</td>
<td>Free</td>
<td>6.6 Miles</td>
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<tr>
<td>Hampton Inn and Suites Cherry Creek</td>
<td>$167</td>
<td>No</td>
<td>Yes</td>
<td>Free</td>
<td>Yes</td>
<td>Free</td>
<td>5.8 Miles</td>
</tr>
<tr>
<td>Hilton Garden Inn Denver Cherry Creek</td>
<td>$139</td>
<td>Yes</td>
<td>Yes</td>
<td>Free</td>
<td>Yes</td>
<td>Free</td>
<td>6.0 Miles</td>
</tr>
<tr>
<td>Holiday Inn Select Cherry Creek</td>
<td>$172</td>
<td>Yes</td>
<td>Yes</td>
<td>Free</td>
<td>Yes</td>
<td>Free</td>
<td>4.7 Miles</td>
</tr>
<tr>
<td>Loews Denver Hotel</td>
<td>$196</td>
<td>24 Hours</td>
<td>Yes</td>
<td>Yes</td>
<td>Free</td>
<td>$9.95</td>
<td>5.5 Miles</td>
</tr>
<tr>
<td>Staybridge Suites Denver/Cherry Creek</td>
<td>$173</td>
<td>No</td>
<td>Yes</td>
<td>Free</td>
<td>Yes</td>
<td>Free</td>
<td>5.4 Miles</td>
</tr>
</tbody>
</table>

### Stapleton Hotels

<table>
<thead>
<tr>
<th>Hotel Name</th>
<th>Single Rate From</th>
<th>Room Service</th>
<th>Fitness Center</th>
<th>Parking</th>
<th>Shuttle Service</th>
<th>Internet</th>
<th>Distance from CC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Doubletree by Hilton — Stapleton</td>
<td>$199</td>
<td>Yes</td>
<td>Yes</td>
<td>Free</td>
<td>Yes</td>
<td>Free</td>
<td>6.0 Blocks</td>
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<tr>
<td>Doubletree by Hilton — Stapleton North</td>
<td>$159</td>
<td>Yes</td>
<td>Yes</td>
<td>Free</td>
<td>Yes</td>
<td>Free</td>
<td>6.2 Miles</td>
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<tr>
<td>Renaissance Denver</td>
<td>$229</td>
<td>Yes</td>
<td>Yes</td>
<td>$</td>
<td>Yes</td>
<td>$9.95</td>
<td>7.0 Miles</td>
</tr>
</tbody>
</table>

(As of December 1, 2012)
DOWNTOWN HOTELS
1 Brown Palace Hotel and Spa
2 Comfort Inn Downtown
3 Courtyard by Marriott Denver Downtown
4 Crowne Plaza
5 The Curtis, a Doubletree Hotel by Hilton
6 Denver Marriott City Center
7 Embassy Suites Denver – Downtown Convention Center
8 Grand Hyatt Denver
9 Hampton Inn & Suites by Hilton, Denver Downtown
10 Hampton Inn & Suites Denver Downtown – Convention Center
11 Hilton Garden Inn Downtown Denver
12 Homewood Suites Denver Downtown – Convention Center
13 Hotel Teatro
14 Hyatt Regency Denver at Colorado Convention Center (Headquarter Hotel)
15 Magnolia Hotel – Denver
16 Oxford Hotel
17 Residence Inn by Marriott Denver City Center
18 Residence Inn Denver Downtown
19 The Ritz-Carlton Denver
20 Sheraton Denver Downtown Hotel
21 SpringHill Suites Denver Downtown at Metro State
22 TownePlace Suites by Marriott Denver Downtown
23 Warwick Denver Hotel
24 The Westin Denver Downtown

CHERRY CREEK
25 Courtyard by Marriott Cherry Creek
26 Hampton Inn & Suites Cherry Creek
27 Hilton Garden Inn - Denver Cherry Creek
28 Holiday Inn Select Denver - Cherry Creek
29 Loews Denver Hotel
30 Staybridge Suites Denver/Cherry Creek

EAST METRO/AIRPORT
31 Doubletree by Hilton Denver - Stapleton
32 DoubleTree by Hilton Denver- Stapleton North
33 Renaissance Denver Hotel
The Heart Rhythm Society increases public knowledge of heart rhythm disorders and treatment through its Awareness Campaigns:

Atrial Fibrillation (AFib)

The “AFib Feels Like” Awareness Campaign increases public knowledge of AFib, its symptoms, warning signs, and available treatment options.

www.AFib.org

Sponsors: Boeringer-Ingelheim, Janssen Pharmaceuticals, St. Jude Medical

Sudden Cardiac Arrest (SCA)

The Society’s award-winning “Apples and Oranges” Awareness Campaign uses a simple analogy to educate people about the difference between a heart attack and SCA. The campaign targets heart attack survivors, who are at the highest risk for SCA.

www.StopSCA.org

Sponsors: Boston Scientific, Medtronic, Zoll

Arrest the Risk

“Arrest the Risk” is the Society’s newest awareness campaign. Launched in the U.S. in partnership with the Association of Black Cardiologists, this campaign aims to overcome the barriers to proper diagnosis and treatment of SCA, particularly in the African American community. Emmy Award-winning journalist Shaun Robinson is lending her voice and support to the campaign.

www.ArrestTheRisk.org

Sponsor: Medtronic