

# Stanford 3<sup>rd</sup> Annual Electrophysiology in the West Summit

**December 11-13, 2009**  
**Rosewood Sand Hill**  
**Menlo Park, CA**

*A Continuing Medical Education Conference  
Presented by the  
Department of Cardiovascular Medicine at  
Stanford University School of Medicine  
and Stanford Hospital & Clinics*



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# Program (subject to change)

## Friday, December 11, 2009

7:00 - 8:00 AM	<b>Breakfast and Cases with the Faculty</b>
8:00 - 8:10	<b>Welcome &amp; Introductions</b> <i>Paul Wang</i>
8:10 - 8:40	<b>The Prevention of Sudden Death: Why Should We Care?</b> <i>Paul Wang</i>
8:40 - 9:20	<b>Comotio Cordis, Sudden Death in Athletes, &amp; the Athletic Screening Controversy</b> <i>Paul Wang</i>
9:20 - 9:50	<b>Hypertrophic Cardiomyopathy</b> <i>Euan Ashley</i>
9:50 - 10:30	<b>Arrhythmias in Adult Congenital Heart Disease</b> <i>Amin Al-Ahmad and Daniel Murphy</i>
10:30 - 10:50	<b>Break</b>
10:50 - NOON	<b>Choice of Concurrent Seminar Tracks: (Please choose one)</b>
<b>Track 1 – EP Physicians &amp; Fellows</b>	<b>Tough Clinical Cases for the EP Specialist: Tips &amp; Tricks</b> Panel: <i>Al-Ahmad (Chair), Stevenson, Hsia, Dubin</i> • Ablating Tough AVNRT's • Ablating Tough Accessory Pathways • Ablating Tough Atrial Tachycardias
<b>Track 2 – Cardiologists &amp; Internists</b>	<b>Avoiding ECG Pitfalls: Tough Clinical Cases</b> • Rhythm Diagnosis and ECG Manifestations of Life-threatening Problems: <i>Wang</i> • Myocardial Infarction and its Mimics: <i>Ze</i>
<b>Track 3 – Associate Professionals</b>	<b>Introduction to Electrophysiology and the ECG</b> • From Cell to Bedside – Understanding Cellular Electrophysiology: <i>Ottoboni</i> • From Action Potential to ECG: Basic Electrocardiography: <i>Tsiperfal</i>
12:00 - 1:00	<b>Lunch</b>
1:00 - 1:40	<b>Keynote Address – VT Ablation: A Major Role in Current Practice?</b> <i>William Stevenson</i>
1:40 - 2:10	<b>Identifying High Risk Ischemic and Heart Failure Patients</b> <i>Randall Vagelos</i>

2:10- 2:40

**Arrhythmias in Children**  
*Anne Dubin*

2:40 - 3:00

**Break**

2:40 - 3:00

**Break**

3:00 - 4:10

**Choice of Concurrent Seminar Tracks**

3:00 - 4:15

**Choice of Concurrent Seminar Tracks**

**Track 1 – EP Physicians & Fellows**

**Cases: Tips and Tricks in Complex Ablation and Mapping**

**Track 1 – EP Physicians & Fellows**

**Tough Ablation Cases – Tips & Tricks**

• Congenital Heart Disease Ablation: *Al-Ahmad (Chair), Callans, Dubin, Stevenson*

**Track 2 – Cardiologists & Internists**

Panel: *Hsia (Chair), Stevenson, Zei*

• Epicardial Access for Ablation Cases: Panel: *Al-Ahmad (Chair), Callans, Zei, Stevenson, Hsia*

**Track 3 – Associate Professionals**

• Ablating LVOT VTs  
• Difficult RVOT VTs  
• Ablating fascicular VTs

• Anatomic Mapping Cases: Tips, Tricks, and Traps: Panel: *Al-Ahmad (Chair), Callans, Hsia, Zei, Stevenson, Hsia*

4:15 PM

**Clinical Arrhythmia Topics:**

**Track 2 – Cardiologists & Internists**

**Selecting Patients for Device Therapy:**

• Managing Difficult Syncope Patients: *Wang*  
• Managing Difficult Autonomic Dysfunction Patients: *Friday*

• Identifying Patients with Hypertrophic Cardiomyopathy at Risk of Death: *Wang*  
• Selecting Patients for Pacemaker, ICD, and Biventricular ICD: *Wang*

## Saturday, December 12, 2009

7:00 - 8:00 AM

**Breakfast and Cases With the Faculty**

**Track 3 – Associate Professionals**

**Atrial and Ventricular Arrhythmia Case Management**

8:00 - 8:30

**New Advances in Interventional Cardiology**  
*Alan Yeung*

4:10

**Adjourn**

8:30 - 9:00

**The Future of Atrial Fibrillation Ablation**  
*David Callans*

## Sunday, December 13, 2009

8:00 - 8:30

**Breakfast**

9:00 - 9:30

**Ablation of Ischemic and Non-Ischemic Ventricular Tachycardia**  
*Henry Hsia*

8:30 - 10:00

**Choice of Concurrent Seminar Tracks**

9:30 - 10:00

**Arrhythmogenic Right Ventricular Dysplasia**  
*Paul Zei*

**Track 1 – EP Physicians & Fellows**

**Atrial Fibrillation Ablation – the Toughest Cases**  
*Callans, Al-Ahmad (Chair), Stevenson, Hsia*

10:00 - 10:20

**Break**

**Track 2 – Cardiologists & Internists**

**Ventricular Tachycardia Ablation Cases**  
*Callans, Hsia, Zei (Chair), Stevenson*

10:20 - NOON

**Choice of Concurrent Seminar Tracks**

**Track 3 – Associate Professionals**

**Step by Step Arrhythmia Management**

**Track 1 – EP Physicians & Fellows**

**Tough ICD, Pacemaker, & CRT Cases: Device Troubleshooting**  
Panel: *Wang (Chair), Turakhia*

**Track 2 – Associate Professionals**

**Arrhythmia Controversies and Challenging Cases**  
*Turakhia, Wang*

**Track 2 – Cardiologists & Internists**

**AF Management in Difficult Cases**  
Panel: *Callans, Zei, Al-Ahmad (Chair), Stevenson, Hsia*  
Participants invited to bring cases

**Track 3 – Associate Professionals**

**Research: How Results Impact Our Practice**  
*Linda Norton*

**Track 3 – Associate Professionals**

**EP Lab:**  
• Understanding Intracardiac Tracings: *TBA*  
• Avoiding EP Lab Complications: *Manibusan*  
• Future Directions in the Cath Lab: *Beheiry*

**Track 2 – Cardiologists & Internists**

**The Challenge of Managing Patients Before and After Ablations**  
*Aimee Lee*

12:00 - 1:00

**Lunch**

10:00 - 10:20

**Break**

1:00 - 1:40

**Resynchronization Therapy for Heart Failure**  
*Paul Wang*

10:20 - 10:50

**Innovation and Arrhythmia Device Design: A Case-Based Approach**  
*Paul Wang*

1:40 - 2:10

**Imaging During Ablation**  
*David Callans*

10:50 - NOON

**Difficult Cases: All Arrhythmias and All Devices**  
All Faculty (Audience Invited to Offer Cases)

2:10 - 2:40

**Device Monitoring in Heart Failure Patients**  
*Michael B. Fowler*

12:00 NOON

**Adjourn**

**Opportunities for Q&A will be provided at the conclusion of each presentation.**



# Conference Overview

## Statement of Need

Cardiology, electrophysiology and interventional cardiology are medical specialties which require that physicians maintain license certification. ACGME Maintenance of Certification core competencies for quality patient care include:

- Patient Care
- Medical Knowledge
- Interpersonal and Communication Skills
- Professionalism
- Systems-based Practice
- Practice-based Learning and Improvement.

Consistent with the national focus on healthcare quality, the American College of Cardiology and the American Heart Association have developed a multifaceted strategy to facilitate the process of improving clinical care. In this regard, a need exists to provide cardiologists with comprehensive, up-to-date and evidence-based information on the diagnosis and management of patients with cardiac conditions. Primary care physicians also have a need for clinical information i.e. diagnosis and management as well as education of their patients with cardiovascular disease. These clinical updates will be provided to the *Electrophysiology in the West* participant.

## Target Audience

This course is designed to meet the educational needs of a national audience of cardiologists, electrophysiologists, internists, arrhythmia nurses and electrophysiology technicians.

## Learning Objectives

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

- Apply 2008 ACC/AHA/HRS Guidelines for device-based therapy to evaluation and treatment of patients with

cardiac arrhythmia and patients at risk for sudden death.

- Utilize remote device monitoring for patients with implantable electronic devices pursuant to Heart Rhythm Society and European Heart Rhythm Association published consensus standards.
- Pursuant to NIH guidelines, utilize risk stratification tools to identify atrial fibrillation patients at risk for stroke, then diagnose and apply primary and secondary prevention measures.
- Recognize artifact and correctly measure QT interval on ECGs in accordance with clinical competence standards of the ACC/AHA.
- Compare and contrast the use of antiarrhythmia drugs versus ablation therapy for atrial fibrillation patients, and formulate a treatment plan.
- Summarize the critical components of successful ablation of atrial fibrillation and complex arrhythmias as set forth in HRS/EHRA/ECAS Expert Consensus Statement.
- Assess and discern the differences between ventricular tachycardia and supraventricular tachycardia per clinical competence statement of the ACC/AHA.
- Diagnose VT as a cause of syncope in patients with structural heart disease and propose an evidence-based treatment plan.
- Summarize evidence-based indications and basic functions of pacemakers, and troubleshooting strategies for pacemakers and implantable defibrillators.
- Analyze common arrhythmias associated with congenital heart disease as described in the HRS/Pediatric and Congenital Electrophysiology Society Clinical Competency Statement.
- Recognize the role of cardiac resynchronization therapy in the treatment of heart failure and devise a

treatment plan following ACC/AHA/HRS 2008 guidelines.

## Accreditation

The Stanford University School of Medicine is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

## California Board of Registered Nursing

Lucile Packard Children's Health Services at Stanford Hospital & Clinics is approved by the California Board of Registered Nursing, (Provider Number CEP12570) to provide continuing education for Nurses. This course is approved for 21.5 contact hours.

## Credit Designation

Stanford University School of Medicine designates this educational activity for a maximum of 18.25 *AMA PRA Category 1 Credit(s)*<sup>™</sup>. Physicians should only claim credit commensurate with the extent of their participation in the activity.

## Commercial Support Acknowledgement

This CME activity is not supported by educational grants.

## Cancellation Policy

Refunds must be requested in writing by November 6, 2009, and will be subject to a \$75 administrative fee. No refunds will be made on cancellations received after November 6, 2009. Program materials cannot be guaranteed unless enrollment is received by November 6, 2009. Stanford University School of Medicine reserves the right to cancel this program; in the event of cancellation, course fees will be fully refunded.

# Enrollment Application

## Stanford 3rd Annual Electrophysiology in the West Summit

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Please register early – hotel and conference space are limited. Registration fee includes Continental breakfasts with course faculty, refreshment breaks, course materials, CD-ROM, and certificate of attendance. Tuition may be paid by check, American Express, Visa, or MasterCard.

Please type or print:

NAME/DEGREE \_\_\_\_\_

SPECIALTY \_\_\_\_\_

MEDICAL LICENSE NUMBER (REQUIRED FOR CME CREDIT) \_\_\_\_\_

AFFILIATION \_\_\_\_\_

STREET ADDRESS \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

DAYTIME PHONE \_\_\_\_\_ EVENING PHONE \_\_\_\_\_

EMAIL ADDRESS \_\_\_\_\_ FAX \_\_\_\_\_

EMERGENCY CONTACT NAME \_\_\_\_\_ PHONE \_\_\_\_\_



Stanford Hospital & Clinics is fully ADA compliant. If you have needs that require special accommodations, including dietary concerns, please contact [bpannoni@stanfordmed.org](mailto:bpannoni@stanfordmed.org) or (650) 724-7166, before November 20, 2009.

## Registration Fees

Early registration must be postmarked or faxed by November 13, 2009

	Early Bird Discount	After November 13, 2009
Physicians	<input type="checkbox"/> \$495	<input type="checkbox"/> \$600
Other practitioners	<input type="checkbox"/> \$295	<input type="checkbox"/> \$385

**Please select appropriate Track for concurrent sessions:**  
 Track 1: EP Physicians & Fellows  Track 2: Cardiologists & Internists  
 Track 3: Associate Professionals

**Daily Continental Breakfast** – Breakfast is included in tuition for course registrants. Guest fee: \$95/three days. I will bring \_\_\_ guests.

Please check payment method:

- Register and pay online at [www.cme.stanfordhospital.com](http://www.cme.stanfordhospital.com)
- Check enclosed, payable to Stanford Hospital & Clinics  Visa  MC

CARD NUMBER \_\_\_\_\_ EXPIRATION DATE \_\_\_\_\_

PRINTED NAME (AS IT APPEARS ON CARD) \_\_\_\_\_ 3 DIGIT SECURITY CODE \_\_\_\_\_

CARDHOLDER'S SIGNATURE \_\_\_\_\_

## Mail application and payment to:

**Stanford Center for Continuing Medical Education**

Attn: Lindsay Hovakimian

701 A Welch Road, Suite 2207, Palo Alto, CA 94304

Phone: (650) 497-8554 • FAX: (650) 497-8585 • Email: [lindsay\\_hovakimian@stanford.edu](mailto:lindsay_hovakimian@stanford.edu)

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## Hotel Information & Faculty

### Conference Location

#### Rosewood Sand Hill

2825 Sand Hill Rd., Menlo Park, CA

#### Guest Room Rates

A block of rooms is being held for conference participants at a rate of \$185 for a deluxe room. **Rooms at this special rate have been reserved for attendees on a first-come, first-served basis and may sell out before the cut-off date. By staying at the host hotel, you assist Stanford University School of Medicine in meeting its contractual obligation with the hotel and in keeping future registration rates reasonable.** Please contact the hotel directly at **888-ROSEWOOD** to make reservations. To receive the group rate, indicate that you are attending the Stanford University School of Medicine 3rd Annual Electrophysiology in the West Summit. Rates are extended two days pre- and post-conference.

**To guarantee rates, rooms must be booked by November 11, 2009.**

For detailed hotel information visit <http://www.rosewoodsandhill.com/>

### Faculty

Course Director:  
**Paul J. Wang, MD**

Course Co-Director:  
**Karen Friday, MD**

#### Stanford Faculty:

##### Amin Al-Ahmad, MD

Assistant Professor of Medicine  
(Cardiovascular Medicine)  
Director, Cardiac Electrophysiology  
Laboratory

##### Euan Ashley, MRCP, DPhil, FACC

Assistant Professor of Medicine  
(Cardiovascular Medicine)  
Director, Hypertrophic Cardiomyopathy  
Program

##### Kelly Cook, RN, BSN, MSN, NP

Nurse Practitioner, Stanford Cardiac  
Arrhythmia Service

##### Anne Dubin, MD

Associate Professor of Pediatrics  
(Cardiology)

##### Michael Fowler, MB, MRCP

Professor of Medicine  
Medical Director Cardiomyopathy  
Center

##### Karen Friday, MD

Clinical Professor of Medicine  
(Cardiovascular Medicine)  
Palo Alto VA Hospital System and  
Stanford Hospital and Clinics

##### Henry H. Hsia, MD

Associate Professor of Medicine  
(Cardiovascular Medicine)  
Associate Director, Cardiac  
Electrophysiology Laboratory

##### Aimee Lee, BSN, MSN

Nurse Coordinator, Stanford Arrhythmia  
Service

##### Jane Manibusan, RN

Nurse Lead, Cardiac Electrophysiology  
Laboratory

##### Daniel Murphy, Jr., MD

Professor of Pediatrics  
Director, Adult Congenital Heart Program

##### Linda Norton, BSN, MS

Clinical Research Manager, Stanford  
Arrhythmia Service

##### Linda K. Ottoboni, RN, BA, MS, CNS

Arrhythmia Clinical Nurse Specialist  
Cardiac Program Manager

##### Angela Tsiperfal, RN, BSN, MSN, NP

Nurse Practitioner, Stanford Cardiac  
Arrhythmia Service

##### Mintu Turakhia, MD,

Instructor (Cardiovascular Medicine)

##### Randall Vagelos, MD

Professor of Medicine (Cardiovascular  
Medicine)

Director, Coronary Care Unit

##### Paul J. Wang, MD

Professor of Medicine (Cardiovascular  
Medicine)

Director, Cardiac Arrhythmia Service

##### Alan C. Yeung, MD

Chief, Cardiovascular Medicine (Clinical)  
Director, Interventional Cardiology  
Interventional Professor of Medicine  
(Cardiovascular)

##### Paul C. Zei, MD, PhD

Clinical Assistant Professor of Medicine  
(Cardiovascular Medicine)

#### Guest Faculty:

##### Salwa Beheiry, RN, CCRN

Director, EP and Arrhythmia Service  
Sutter Pacific Heart Centers  
California Pacific Medical Center

##### David J. Callans, MD

Professor of Medicine, University of  
Pennsylvania School of Medicine  
Director, Electrophysiology Laboratory  
University of Pennsylvania Health  
System

##### William Stevenson, MD

Professor of Medicine  
Brigham & Women's Hospital  
Harvard Medical School

#### Faculty Disclosure

*The Stanford University School of Medicine and Stanford Hospital & Clinics adhere to ACCME Essential Areas, Standards, and Policies regarding industry support of continuing medical education. Disclosure of faculty and commercial relationships will be made prior to the activity. Speakers are required to openly disclose any limitations of data and/or any discussion of any off-label, experimental, or investigational uses of drugs or devices in their presentations.*