

Fifth Charleston Symposium on  
**Pediatric Electrophysiology**

*Focus on Clinical Management*

*December 13-15, 2009*

**Francis Marion Hotel, Charleston, SC**

**Course Directors**

**Thomas Paul, MD**  
The Children's Heart Center  
Georg-August-University  
Göttingen, Germany

**J. Philip Saul, MD**  
The Children's Heart Program  
of South Carolina  
Medical University of South  
Carolina  
Charleston, SC



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**Heart Rhythm Society**  
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The Children's Heart Program of South Carolina  
Medical University of South Carolina  
165 Ashley Avenue  
MSC 915  
Charleston, SC 29425

# Program

December 13-15, 2009, Charleston, SC

## *Sunday, December 13, 2009*

- Noon-1:00** Registration/exhibition
- 1:00-1:15** Welcome and introduction  
Carolina Ballroom  
Drs. Paul and Saul

### MANAGEMENT OF SELECTED CLINICAL ARRHYTHMIAS WITH ABLATION AS AN OPTION: DECISION MAKING

Moderator: Dr. Paul

- 1:15-1:30** Case presentation  
Dr. Walsh
- 1:30-2:00** The asymptomatic pediatric  
patient with Wolff-Parkinson-  
White syndrome  
Dr. Saul
- 2:00-2:15** Case presentation  
Dr. Reed
- 2:15-2:45** Narrow complex SVT —  
AVNRT, AVRT and atrial flutter  
without CHD  
Dr. Walsh
- 2:45-3:15** Refreshment break/exhibition
- 3:15-3:30** Case presentation  
Dr. Schneider
- 3:30-4:00** Atrial fibrillation in the patient  
with and without CHD  
Dr. Wharton
- 4:00-4:15** Case presentation  
Dr. Deal

- 4:15-4:45** Idiopathic ventricular  
tachycardia  
Dr. Paul
- 4:45** Adjourn
- 5:30-6:30** Welcome reception, Gold  
Ballroom, Francis Marion Hotel

## *Monday, December 14, 2009*

- 7:30-8:00** Continental breakfast/  
exhibition

### MANAGEMENT OF ELECTRICAL CARDIOMYOPATHIES I — DIAGNOSIS

Moderator: Dr. Walsh

- 8:00-8:30** Syncope as a presentation —  
overview  
Dr. Saul
- 8:30-8:45** Case presentation  
Dr. Kriebel
- 8:45-9:30** Pre- and post-mortem genetic  
testing, who has Long QT  
syndrome?  
Dr. Ackerman
- 9:30-9:45** Case presentation  
Dr. Reed
- 9:45-10:00** ECG documentation – role of  
monitoring  
Dr. Reed
- 10:00-10:30** Refreshment break/exhibition
- 10:30-10:40** Case presentation  
Dr. Schneider

# Program

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- 10:40-11:20** The other channelopathies:  
short QT, Brugada and CPVT  
Dr. Ackerman
- 11:20-12:10** Arrhythmogenic RV dysplasia  
Dr. Cohen
- 12:10-12:40** Sudden death risk  
stratification in hypertrophic  
cardiomyopathy  
Dr. Ackerman
- 12:40-1:40** Lunch/exhibition

## MANAGEMENT OF ELECTRICAL CARDIOMYOPATHIES II – RISK ASSESSMENT AND THERAPY

Moderator: Dr. Saul

- 1:40-1:50** Case presentation  
Dr. LaPage
- 1:50-2:35** Latest treatment strategies  
for the long QT syndromes,  
including sympathectomy  
Dr. Ackerman
- 2:35-2:45** Case presentation  
Dr. Kriebel
- 2:45-3:15** ICD implantation – right  
technique for the right patient  
Dr. Triedman
- 3:15-3:45** Refreshment break/exhibition
- 3:45-4:15** “Who says I can’t play  
anyway?” Competitive sports  
participation with genetic heart  
disease  
Dr. Ackerman

- 4:15-5:00** Panel discussion on  
channelopathies,  
cardiomyopathies: sports  
participation of the athlete with  
an at-risk heart  
Drs. Ackerman, Cohen, Triedman,  
Saul
- 5:00** Adjourn

*Tuesday, December 15, 2009*

- 7:30-8:00** Continental breakfast/  
exhibition

## CARDIAC RESYNCHRONIZATION THERAPY (CRT) IN THE PEDIATRIC PATIENT (ETC)

Moderator: Dr. Triedman

- 8:00-8:15** Case presentation  
Dr. LaPage
- 8:15-8:45** Measuring synchrony  
Drs. Shirali/Baker
- 8:45-9:15** Role of CRT in individuals with  
heart failure/cardiomyopathy  
with a normal heart  
Dr. Cohen
- 9:15-9:30** Case presentation  
Dr. Triedman
- 9:30-10:00** Role of CRT in individuals with  
congenital heart block and  
structural congenital heart  
disease  
Dr. Janousek

# Program

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- 10:00-10:30 Refreshment break/exhibition**
- 10:30-10:45 Case presentation**  
Dr. Cohen
- 10:45-11:15 Which pediatric and congenital patients need ICD backup with CRT?**  
Dr. Deal
- 11:15-11:30 Case presentation**  
Dr. Walsh
- 11:30-12:00 Optimal size for dual chamber and transvenous pacing**  
Dr. Janousek
- 12:00-01:15 Lunch/exhibition**

## **MANAGEMENT OF ATRIAL AND VENTRICULAR TACHYCARDIAS IN THE POSTOPERATIVE PATIENT WITH CONGENITAL HEART DISEASE**

**Moderator: Dr. Janousek**

- 1:15-1:25 Atrial tachycardia in the patient with AV concordance — how do I manage it?**  
Dr. Walsh
- 1:25-1:35 Atrial tachycardia in the atrial switch patient — how do I manage it?**  
Dr. Janousek
- 1:35-1:45 Atrial tachycardia in the Fontan patient — how do I manage it?**  
Dr. Saul

- 1:45-1:55 Ventricular tachycardia in the congenital heart patient — how do I manage it?**  
Dr. Cohen
- 1:55-2:45 Update and review of mapping and ablation techniques of atrial tachycardias**  
Dr. Triedman
- 2:45-3:15 Refreshment break/exhibition**
- 3:15-3:45 Substrate mapping of ventricular tachycardias**  
Dr. Paul
- 3:45-4:30 Update and review of surgical management**  
Dr. Deal
- 4:30-4:45 Closing Remarks**  
Drs. Paul and Saul
- 4:45 Adjourn**



# Program Faculty

*December 13-15, 2009, Charleston, SC*

## Course Directors

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### **Thomas Paul, MD**

Professor of Pediatrics  
Director, Pediatric Cardiology and Intensive Care  
Medicine  
The Children's Heart Center  
Georg-August-University  
Göttingen, Germany

### **J. Philip Saul, MD**

Professor of Pediatrics  
Director, Pediatric Cardiology  
The Children's Heart Program of South Carolina  
Medical University of South Carolina Charleston,  
SC

## Faculty

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### **Michael J. Ackerman, MD PhD**

Professor of Pediatrics, Medicine, and  
Pharmacology  
Director, Long QT Syndrome Clinic and the  
Windland Smith Rice Sudden Death Genomics  
Laboratory  
Mayo Clinic  
Rochester, MN

### **G. Hamilton Baker, MD**

Assistant Professor of Pediatrics  
The Children's Heart Program of South Carolina  
Medical University of South Carolina Charleston,  
SC

### **Mitchell I. Cohen, MD**

Clinical Assistant Professor  
Department of Pediatrics  
University of Arizona  
Phoenix, Arizona

### **Barbara J. Deal, MD**

Division Head, Cardiology  
Children's Memorial Hospital  
M.E.Wodika Professor of Cardiology Research  
Feinberg School of Medicine  
Northwestern University  
Chicago, IL

### **Jan Janousek, MD**

Professor of Pediatrics  
Director, Department of Pediatric Cardiology  
Heart Center Leipzig  
University of Leipzig, Germany

## Faculty Continued

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### **Thomas Kriebel, MD**

Clinical Instructor in Pediatrics  
Associate in Pediatric Electrophysiology  
University Children's Hospital/Georg-August-  
University  
Göttingen, Germany

### **Martin J. LaPage, MD**

Fellow, Pediatric Electrophysiology  
The Children's Heart Program of South Carolina  
Medical University of South Carolina  
Charleston, SC

### **John H. Reed, MD**

Assistant Professor of Pediatrics  
Electrophysiology Service  
The Children's Heart Program of South Carolina  
Medical University of South Carolina  
Charleston, SC

### **Heike E. Schneider, MD**

Clinical Instructor in Pediatrics  
Associate in Pediatric Electrophysiology  
University Children's Hospital/Georg-August-  
University  
Göttingen, Germany

### **Girish S. Shirali, MD**

Professor of Pediatrics and Ob/Gyn  
Director, Pediatric Echocardiography Laboratory  
The Children's Heart Program of South Carolina  
Medical University of South Carolina  
Charleston, SC

### **John K. Triedman, MD**

Associate Professor of Pediatrics  
Harvard Medical School  
Cardiac Electrophysiology Service  
Children's Hospital, Boston, MA

### **Edward P. Walsh, MD**

Professor in Pediatrics  
Harvard Medical School  
Director, Cardiac Electrophysiology Service  
Children's Hospital, Boston, MA

### **J. Marcus Wharton, MD**

Professor of Medicine  
Director of Electrophysiology  
Medical University of South Carolina  
Charleston, SC

# Information

*December 13-15, 2009, Charleston, SC*

## **Meeting Coordinator**

**Debbie Bryant**

E-Mail: [bryantd@musc.edu](mailto:bryantd@musc.edu)

(843) 792-3286 Phone

(843) 792-3284 Fax

## **Course Overview**

This 5th Symposium has been re-designed to focus primarily on the clinical management of various types of arrhythmias encountered in the pediatric patient and young adult with and without congenital heart disease. Emphasis will be placed on the practical aspects of difficult problems encountered day to day by the practicing pediatric cardiologist. In order to highlight each of the clinical problems, more case presentations have been included in each section to allow in-depth discussion with opinion leaders in the particular field. A full day of the course, which can be attended as a separate sub-course is devoted to the management of electrical cardiomyopathies/channelopathies, an always demanding problem in our daily practice. The organizers are very proud to have again Dr. Michael Ackerman from the Mayo Clinic on the faculty who will provide us with the state-of-the-art for diagnosing and managing pediatric patients with these diseases.

## **General Information**

**Enrollment and fees:** Register early! Advanced registration fee is \$695 for the entire 3-day course. After November 1st, the fee will be \$795. Physicians-in-training and allied professionals may register for \$495 (\$595 after November 1st) upon presenting a written confirmation of their status. The special one-day fee for the Electrical Cardiomyopathies session (Monday) is \$400. The registration fee includes program syllabus materials, continental breakfasts, coffee breaks, and lunch on Monday and Tuesday. The fee also

## **General Information Continued**

includes one ticket to the welcome reception in the ballroom on Sunday afternoon. Additional tickets to the reception (\$60 each) may be purchased on the registration form.

**Cancellation:** Full refund will be given provided that cancellation is received four weeks prior to the opening date of the program. A processing fee of \$100 will be charged for all cancellations received after this time and before the program opens. The costs of meal functions will also be deducted from the refund unless the cancellation is received more than 72 hours in advance of the program. After the program begins, no refunds will be possible.

**2nd Outstanding Investigator Award:** Course participants are encouraged to submit abstracts related to pediatric and congenital electrophysiology for consideration of the Second Annual Outstanding Investigator Award. The organizers will choose the final accepted abstracts and notify presenters by November 15, 2009. The posters will be displayed on Monday, December 14. The faculty will select the recipient of the outstanding investigator award. The winner will receive a complimentary registration to the 2011 conference and a \$250 prize. Abstracts are limited to 500 words and must represent original material not previously published in a peer-reviewed journal. Papers previously presented at other meetings, but not yet in print, will be considered. Abstract submissions will only be accepted electronically. See the conference website for details. Abstract acceptance does not include course registration fee or hotel accommodations. Poster guidelines will follow after acceptance.

### **Timeline:**

Abstract Submission Deadline. . November 1  
Notification of Acceptance. . . . November 15

# Information

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## **Objectives**

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Enhance the ability of attendees to deal with the special issues encountered with pediatric cardiac arrhythmias. Specifically, at the conclusion of the program, the participant should be able to:

- Improve decision making for commonly encountered arrhythmias in the pediatric patient with ablation as an option
- Manage electrical channelopathies and cardiomyopathies, including the use of genetic testing, risk assessment and the treatments appropriate for the individual patient
- Improve techniques for implantation of pacemakers and ICDs in the small child and in the patient with complex congenital heart disease
- Implement new techniques for cardiac resynchronization therapy in the patient with and without congenital heart disease
- Integrate new approaches for management of atrial tachycardias in a variety of postoperative clinical situations including the atrial switch and Fontan physiology
- Utilize the electrophysiological, anatomic and technical issues for catheter and surgical-based management of postoperative atrial and ventricular tachyarrhythmias covered in the course

## **Who Should Attend?**

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Pediatric and adult cardiologists involved in arrhythmia management in children, physicians-in-training, advanced practice clinicians, technical and nursing support staff. Also, any pediatric cardiologist diagnosing or treating patients with electrical cardiomyopathies will benefit from the special one-day symposium.

## **Location:**

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Conference sessions will be held at the Francis Marion Hotel Historic Charleston. This Charleston landmark is within walking distance to world-class dining, shopping, and historic venues. The Charleston area has a semi-tropical climate with typically mild winters (highs 50-60°F in December).

## **Accommodations:**

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A block of rooms has been reserved at the Francis Marion Hotel Historic Charleston for Saturday through Tuesday. To ensure a room at the established conference rate (\$99/night plus taxes and fees, currently 12.5%), reservations must be made before the room block is filled but not later than November 12th (whichever comes first). Requests received after the block is filled will be accommodated on a space and rate availability basis only. Reservations should be made directly through Francis Marion Hotel at 843-722-0600 or 877-756-2121.

## **Transportation:**

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The Francis Marion Hotel Historic Charleston (387 King Street) is approximately 20 minutes from the Charleston International Airport. All major car rental companies as well as taxi and limousine services are available.

## **Handicapped Equal Access**

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In accordance with the ADA, it is the policy of the Medical University of South Carolina not to discriminate against any person on the basis of disabilities. If you feel you need services or the auxiliary aids mentioned in this act in order to fully participate in this meeting, submit requests for assistance in writing to the meeting coordinator at least 30 days prior to the start of the meeting.

# Information

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## **Disclosure Statement:**

In accordance with the ACCME Essentials and Standards, anyone involved in planning or presenting this educational activity is required to disclose any relevant financial relationships with commercial interests in the healthcare industry. This information will be made available to participants at the beginning of the activity. Speakers who incorporate information about off-label or investigational use of drugs or devices will be asked to disclose that information at the beginning of their presentation.

## **Accreditation Statement:**

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

## **CME Credit Designation:**

The Medical University of South Carolina designates this educational activity for maximum of 17 AMA PRA Category I Credit(s) TM. Physicians should only claim credit commensurate with the extent of their participation in the activity. The Medical University of South Carolina designates this activity for up to 1.7 CEUs (17 contact hours). The CEU (Continuing Education Unit) is a nationally recognized unit of measure for continuing education and training activities that meet specific educational planning requirements. The Medical University of South Carolina maintains a permanent record of participants who have been awarded CEUs.



# Meeting Registration

**Fifth Charleston Symposium on Pediatric Electrophysiology - Focus on Clinical Management**

**December 13-15, 2009, Charleston, SC**

*(Please print or type - must be legible)*

Name \_\_\_\_\_  
Last First M.I.

Degree \_\_\_\_\_

ID# (Required for credit storage): \_\_\_\_\_  
(First four letters of last name and last four digits of SSN – ex: mort1234)

Electrophysiologist,  Cardiologist,  Physician-in-training,  
 Nursing staff,  Technical staff

E-mail address: \_\_\_\_\_

Address \_\_\_\_\_  
\_\_\_\_\_

Telephone: Office (\_\_\_\_) \_\_\_\_\_ - \_\_\_\_\_

Fax (\_\_\_\_) \_\_\_\_\_ - \_\_\_\_\_  
(If international, include country/city codes)

Hospital/Professional Affiliation \_\_\_\_\_

## By Mail:

Debbie Bryant, Meeting  
Coordinator  
The Children's Heart Program of  
South Carolina  
165 Ashley Avenue, MSC915  
Charleston, SC 29425

## By Fax:

Fax form with credit card  
information to Debbie Bryant at  
843-792-3284 or 800-277-0092.

## By E-Mail:

[bryantd@musc.edu](mailto:bryantd@musc.edu)

## Registration and Fees

Includes one ticket to reception on Sunday afternoon

### Physicians

- \$695
- \$795 if received after November 1st
- \$400 Electrical Cardiomyopathy Sessions Only  
Monday, December 14th Only

### Physicians-in-training/allied professionals

(letter of verification from program director required)

- \$495
- \$595 if received after November 1st
- \$400 Electrical Cardiomyopathy Sessions Only  
Monday, December 14th Only

### Do you plan to attend the reception Sunday evening?

(See Enrollment and Fees)

- Yes \_\_\_\_\_ # of guest reception tickets needed  
(\$60/ea)
- No

## Method of Payment

- Check (U.S. funds drawn on U.S. bank) made  
payable to Pediatric Cardiology Symposium
- Credit card:
  - MasterCard
  - Visa
  - American Express

\_\_\_\_\_  
Expiration date

\_\_\_\_\_  
Card Number

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Cardholder's Name

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Cardholder's Signature