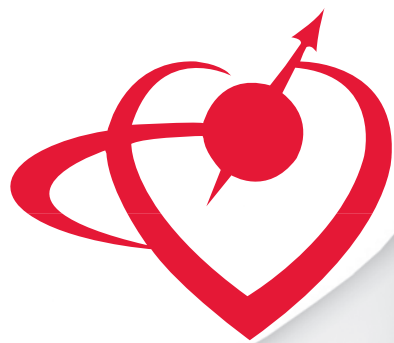
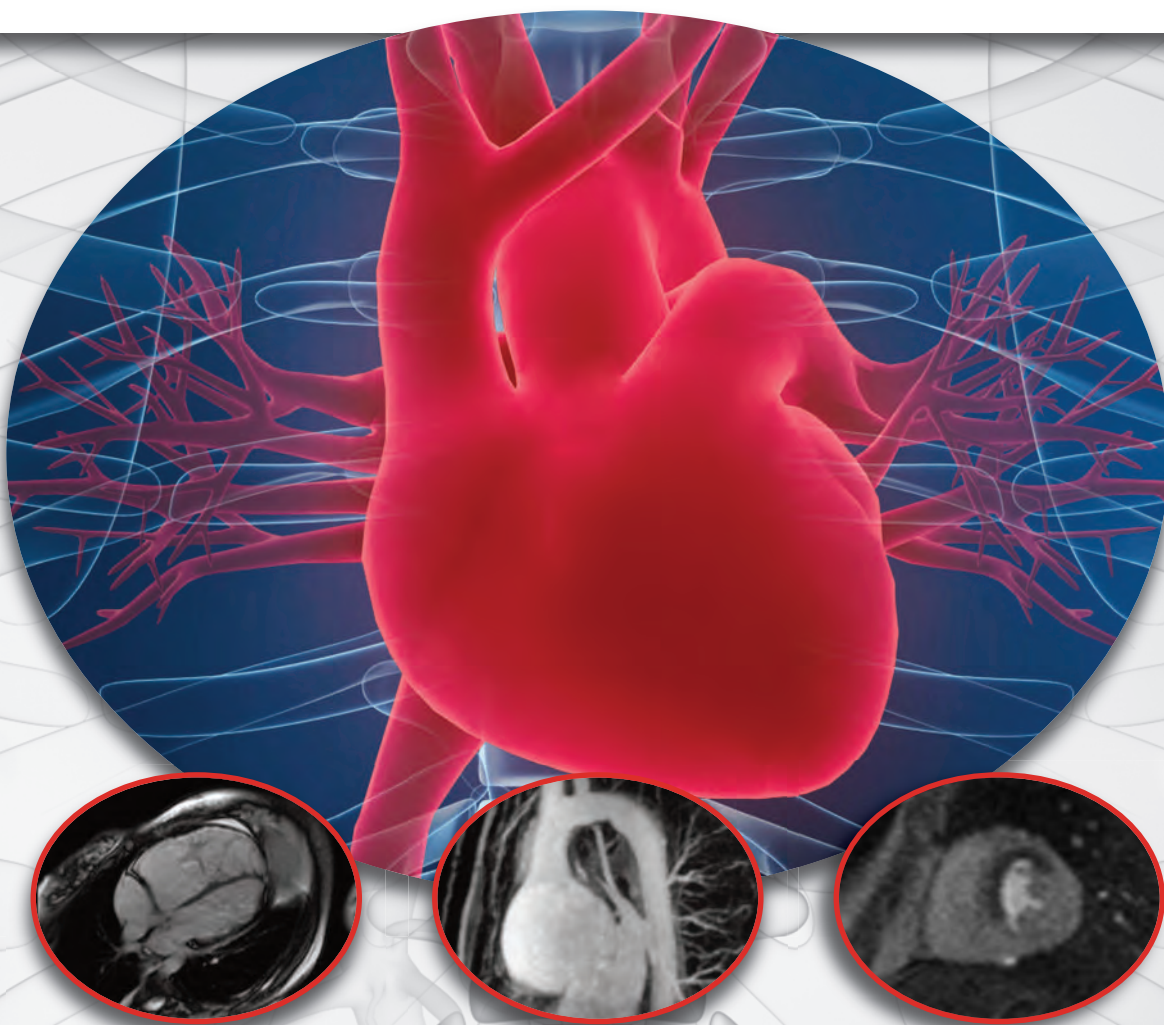




SCMR

Society for Cardiovascular
Magnetic Resonance

17th Annual Scientific Sessions
January 16 - 19, 2014



Hilton New Orleans Riverside | New Orleans, Louisiana
www.scmr.org

Jointly Sponsored by SCMR and the University of Minnesota





Society for Cardiovascular Magnetic Resonance

17TH ANNUAL SCIENTIFIC SESSIONS

HILTON NEW ORLEANS RIVERSIDE - NEW ORLEANS, LA

JANUARY 16 - 19, 2014

Schedule at a Glance

TIME	THURSDAY, JANUARY 16, 2014				
8:00 AM - 6:00 PM	SCMR/ISMRM Jointly Sponsored Workshop See pages 14 and 15 for details	Physicians Pre-conference Course	Congenital/Pediatric Pre-conference Course		
TIME	FRIDAY, JANUARY 17, 2014				
7:00 AM - 8:00 AM	Physics for Physicians 1	Case Review 1	Cardiology for Non-Cardiologists 1	Clinical Trial Workshop 1	
8:00 AM - 9:30 AM	Welcome and Opening Plenary				
9:30 AM - 10:00 AM	CMR Questionnaire				
10:00 AM - 10:30 AM	Refreshment Break/Exhibits/Posters				
10:30 AM - 12:00 PM	Invited Lecture Session 1 Small Animal Imaging	Case Review 2	Oral Abstract Session 1 ECA Clinical	Oral Abstract Session 2	
12:00 PM - 12:30 PM	SCMR Business Meeting				
12:30 PM - 1:30 PM	Lunch/Exhibits/Posters				Technologist Track
1:30 PM - 3:00 PM	Invited Lecture Session 2 - Systemic Inflammation and Sclerosis Involving the Heart	Case Review 3	Oral Abstract Session 3 ECA Basic Science	Oral Abstract Session 4	
3:00 PM - 3:30 PM	Refreshment Break/Exhibits/Posters				
3:30 PM - 5:00 PM	Invited Lecture Session 3 Multi-modality and Hybrid Imaging	Case Review 4	Oral Abstract Session 5 ECA Translational	Oral Abstract Session 6	
5:00 PM - 6:30 PM	Invited Lecture Session 4 - Phenotyping and Risk Stratification in Hypertrophic Cardiomyopathy	Case Review 5	Oral Abstract Session 7	Oral Abstract Session 8	
6:30 PM - 7:30 PM	Moderated Poster Session 1/Wine and Cheese Reception				
TIME	SATURDAY, JANUARY 18, 2014				
7:00 AM - 8:00 AM	Physics for Physicians 2	Case Review 6	Cardiology for Non-Cardiologists 2	Clinical Trial Workshop 2	
8:00 AM - 9:30 AM	Invited Lecture Session 5 T1 Mapping	Case Review 7	Oral Abstract Session 9	Oral Abstract Session 10	
9:30 AM - 10:00 AM	Refreshment Break/Exhibits/Posters				
10:00 AM - 11:30 AM	Invited Lecture Session 6 Vascular Imaging and Endothelial Function	Invited Lecture Session 7 CMR in Asia	Oral Abstract Session 11	Invited Lecture Session 8 CMR in Electrophysiology	Technologist Track
11:30 AM - 12:30 PM	Moderated Poster Session 2/Lunch/Exhibits/Posters				
12:30 PM - 2:00 PM	Invited Lecture Session 9 Congenital I - Unravelling the Complexity of CHD with MR	Case Review 8	Oral Abstract Session 12	Oral Abstract Session 13	
2:00 PM - 2:30 PM	Refreshment Break/Exhibits/Posters				
2:30 PM - 4:00 PM	Invited Lecture Session 10 - Congenital II Advanced CMR Ready for the Clinical Arena?	Case Review 9	Oral Abstract Session 14	Oral Abstract Session 15	
4:00 PM - 5:30 PM	Invited Lecture Session 11 - Interventional CMR: State-of-the-Art and Future Directions	Invited Lecture Session 12 - Future Directions in IHD: Perfusion, FFR, Tissue Characterization	Oral Abstract Session 16	Oral Abstract Session 17	
5:30 PM - 6:00 PM	CMR Technology Updates				
6:30 PM - 8:00 PM	Awards Ceremony and Reception				
TIME	SUNDAY, JANUARY 19, 2014				
7:00 AM - 8:00 AM	Physics for Physicians 3		Cardiology for Non-Cardiologists 3	Clinical Trial Workshop 3	
8:00 AM - 9:30 AM	Invited Lecture Session 13 - Update on Major Prospective Cohort Studies with CMR	Case Review 10	Invited Lecture Session 14 - Quantification in CMR: T1/T2/T2*/Flow/Perfusion	Oral Abstract Session 18	
9:30 AM - 10:00 AM	Refreshment Break				Technologist Track
10:00 AM - 11:30 AM	Invited Lecture Session 15 Emerging CMR Technologies	Invited Lecture Session 16 NIHD Heart Failure: CMR to Guide Therapy	Invited Lecture Session 17 Multi-organ Diseases	Oral Abstract Session 19	
11:30 AM - 1:00 PM	Closing Plenary Session				
1:00 PM - 1:30 PM	Closing Remarks/Highlights from 2014 Scientific Sessions				

Note: Speakers in oral abstract sessions are allocated 10 minutes to present and Q and A

Letter from the Program Chairs



Dear colleagues and friends,

On behalf of the SCMR Board of Trustees and the 2014 Program Committee, we are honored to invite you to the 17th Annual Scientific Sessions January 16 – 19, 2014, in New Orleans, Louisiana, USA.

The goal of the scientific sessions is to provide contemporary information and training on the clinical role of CMR and updates on technological advancements relevant to the field.

We are delighted to welcome leading authorities as speakers of our Opening Plenary Session who will address ischemic heart disease with respect to implementation into clinics, cutting edge research, and advances from qualitative towards quantitative imaging. We expect that these will be a great opening to the whole meeting.

The 2014 Annual Scientific Meeting comprises four tracks with Basic Science, General Clinical, Congenital, and Case Review Sessions. The Physician Pre-conference Course and Congenital/Pediatric Pre-conference Course will be offered on Thursday, January 16, 2014. SCMR and ISMRM will also present a jointly sponsored workshop – “Accelerated CMR: Towards Comprehensive Clinical Cardiovascular Imaging” on Thursday January 16, 2014. Registration discounts are available when attending any pre-conference course or workshop and the Scientific Sessions.

The early morning sessions teaching Physics for Physicians and Cardiology for Non-cardiologists will be offered Friday through Sunday during this meeting. These early morning sessions will be paralleled by a new feature, the Clinical Trial Workshop.

Abstracts submitted by you and your colleagues will again be an integral component of the Scientific Sessions, providing updates on the latest CMR research and techniques. Exciting news will be presented during the Early Career Award Sessions. Oral presentations will be moderated by experts in the field, stimulating interesting discussions of new research results. We hope to enhance the discussion during the poster-sessions and attendees will enjoy the advantages of e-posters and audio-posters.

Concurrent with the main scientific program, technologists can participate in the Technologist Track specifically designed to educate and enrich their knowledge. The Technologist Track is scheduled Friday through Sunday. You and your technologists are invited to discuss your experiences with every day cardiac scanning.

The Exhibit Hall will provide an opportunity to meet with our industry partners and to share your impressions. We hope you visit the exhibits as these companies provide products and services integral to cardiovascular MR.

Thus, we hope you are able to join SCMR for the 2014 Annual Scientific Sessions as we celebrate 17 years of education and research in CMR. You are invited to join our discussions and to share these experiences.

Looking forward to meeting you in New Orleans.

Jens Bremerich, MD
2014 Program Chair

Michael V. McConnell, MD, MSEE
2014 Abstract Chair

Who Should Attend?

The Scientific Sessions are designed for Clinical Practitioners and Trainees in Cardiology, Cardiothoracic Surgery, Cardiovascular Radiology, and Basic Scientists working in related fields.

THE GOALS OF THE CONFERENCE ARE TO:

- Deliver state of the art information on the science of CMR imaging and spectroscopy
- Provide a forum for the presentation of new information on CMR
- Compare and contrast CMR methods with other cardiovascular imaging approaches

AT THE CONCLUSION OF THE SCIENTIFIC SESSIONS, PARTICIPANTS SHOULD BE ABLE TO:

- Discuss differences between research and clinical routine
- Recommend an imaging modality to identify and diagnose cardiovascular disorders
- Integrate CMR into their professional settings



SCMR Vision Statement

The Society for Cardiovascular Magnetic Resonance (SCMR) will be the leading international representative and advocate for all physicians, scientists, and technologists working in CMR to improve patient outcomes through excellence in education, training, standards, research and development.

The Mission of SCMR is to:

- Be the premier international model and provider of CMR education, training, standards development, and accreditation.
- Maximize clinical effectiveness of CMR through coordinated comparative effectiveness research efforts resulting in evidence-based guidelines to enhance patient care and outcomes.
- Continually enhance the accuracy, efficiency, and effectiveness of CMR in cardiovascular healthcare through technological advances.
- Promote scientific exchange through organization of an annual international scientific conference, publication of the *Journal of Cardiovascular Magnetic Resonance*, and interactive internet-enabled tools including the SCMR website.
- Build an expanding global membership of physicians, scientists, technologists, and interested healthcare partners focused on clinical applications and research in CMR.
- Develop and advance close working alliances with related societies, industry partners, and governmental and regulatory agencies to more effectively integrate and elevate the use of CMR within cardiovascular healthcare.

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Thursday, January 16, 2014

Congenital / Pediatric Pre-conference Course Preliminary Program *

8:00 am – 6:00 pm

8:00 am – 8:05 am	Introduction to the Congenital / Pediatric Pre-Conference Course
8:05 am – 8:35 am	Speaking the Same Language: Sequential Segmental Approach to Cardiac Anatomy
8:35 am – 8:55 am	Yasui, Kawashima, Lecompte and Co: Surgical Anatomy for CMR in CHD
8:55 am – 9:25 am	Because You Need to Understand It to Adjust It to Your Patient: MRI Physics for Imaging Patients with CHD
9:25 am – 9:50 am	Smaller, Faster, and Moving: Patient Handling, Hardware and Software Settings for Scanning Young and Very Young Patients
9:50 am – 10:10 am	Ventricular Volumes: How to Get and How to Interpret Them
10:10 am – 10:30 am	Flow Measurements with CMR: Asset and Pitfalls
10:30 am – 10:50 am	Outside the Heart: Angiography with and without Contrast
10:50 am – 11:10 am	Viability Imaging in Pediatric Heart Disease
11:10 am – 11:30 am	Morning Break
11:30 am – 11:50 am	Cardiac Masses: Non-invasive Tumor Characterization with CMR
11:50 am – 12:10 pm	CMR in Acquired Pediatric Heart Disease: Vasculitis and Kawasaki Disease
12:10 pm – 1:00 pm	The Big Three: Tetralogy of Fallot & Transposition & Coarctation of Aorta
1:00 pm – 2:00 pm	Lunch (on own)
2:00 pm – 2:25 pm	The Cardiomyopathies: ARVC, DCM, HCM
2:25 pm – 2:55 pm	Single Ventricle Circulations: CMR through the Stages
2:55 pm – 3:10 pm	Simple and Complex Shunts
3:10 pm – 3:25 pm	Moving Beyond the Basics: Implementation of Newer Techniques: 4D Flow
3:25 pm – 3:40 pm	Moving Beyond the Basics: Implementation of Newer Techniques: Myocardial Mechanics Imaging with CMR
3:40 pm – 3:55 pm	Moving Beyond the Basics: Implementation of Newer Techniques: Tissue Characterization with CMR
3:55 pm – 4:15 pm	Afternoon Break
4:15 pm – 5:15 pm	Putting it all Together: Clinical Cases with an Edge
5:15 pm – 6:00 pm	Open Communication

*Subject to Change

Thursday, January 16, 2014

Physician Pre-conference Course Preliminary Program *

8:00 am – 6:15 pm

8:00 am – 8:10 am	Introductory Remarks
8:10 am – 8:30 am	Basics: Spins and Hardware
8:30 am – 8:50 am	Black-blood Sequences
8:50 am – 9:10 am	Bright-blood Sequences
9:10 am – 9:30 am	Let's Go Faster: Parallel Acquisition Techniques
9:30 am – 9:50 am	Dealing with Breathing Artifacts and Arrhythmia
9:50 am – 10:10 am	Knowing When to Choose CMR in a Multi-modality Imaging Climate
10:10 am – 10:30 am	How to Measure Regional and Global Ventricular Function
10:30 am – 10:50 am	How to Quantify Blood Flow
10:50 am – 11:10 am	How to Perform High-quality Delayed Enhancement Imaging
11:10 am – 11:30 am	Morning Break
11:30 am – 11:50 am	How to Optimize MR Angiography
11:50 am – 12:10 pm	Tissue Characterization and Mapping Techniques
12:10 pm – 12:30 pm	How to Assess Myocardial Iron Overload
12:30 pm – 12:50 pm	Optimizing Efficiency of Protocols
12:50 pm – 2:00 pm	Lunch (on own)
2:00 pm – 2:20 pm	CMR to Assess the Etiology of Cardiomyopathy
2:20 pm – 2:40 pm	CMR in the Assessment of Arrhythmic Substrate
2:40 pm – 3:00 pm	CMR in Suspected Acute Myocarditis
3:00 pm – 3:20 pm	CMR in Acute Coronary Syndromes
3:20 pm – 3:40 pm	CMR in Stable Coronary and Ischemic Heart Disease
3:40 pm – 4:00 pm	CMR in Congenital Heart Disease
4:00 pm – 4:15 pm	Afternoon Break
4:15 pm – 4:35 pm	CMR in Valvular Disease
4:35 pm – 4:55 pm	CMR in Pericardial Disease
4:55 pm – 5:15 pm	CMR in the Assessment of Intracardiac Mass
5:15 pm – 6:15 pm	Panel Discussion on Submitted Questions

*Subject to Change

Scientific Sessions – Preliminary Program*



Friday, January 17, 2014

6:30 am – 8:00 am	Continental Breakfast	12:00 pm – 12:30 pm	SCMR Business Meeting
7:00 am – 8:00 am	Cardiology for Non-Cardiologists 1 Ischemic Heart Disease • Coronary Perfusion: Physiology and Pathophysiology • Acute Myocardial Infarction: Pathogenesis and Consequences • Interesting Case of Ischemic Heart Disease in CMR • Q & A	12:30 pm – 1:30 pm	Lunch / Exhibits and Posters
7:00 am – 8:00 am	Clinical Trial Workshop 1 • The Challenges of Conducting Outcome Based CV Imaging Trials • How To Do It: Choosing a Trial Design • Advantages and Disadvantages of Imaging Registries • Q & A	1:30 pm – 3:00 pm	Invited Lecture Session 2 Systemic Inflammation and Sclerosis Involving the Heart • Clinical Needs in Systemic Disease - A Cardiologist View • CMR in Mixed Connective Tissue Disease • Sarcoidosis - the Chameleon Affecting the Heart • CMR in Transplant Rejection • Early Cardiovascular Involvement in the Metabolic Syndrome • Q & A
7:00 am – 8:00 am	Physics for Physicians 1 Cardiac Function and Morphology • Acquisition • Post-processing • Future Perspective • Q & A	1:30 pm – 3:00 pm	Case Review 3 - Congenital Heart Disease / Pediatric Pro / Con Debate
7:00 am – 8:00 am	Case Review 1 - Fascinating Vascular Disease Cases	1:30 pm – 3:00 pm	Oral Abstract Session 3 – ECA Basic Science
8:00 am – 8:10 am	Welcome Address / Opening Remarks	1:30 pm – 3:00 pm	Oral Abstract Session 4
8:10 am – 9:30 am	Opening Plenary Session • Perfusion and FFR in CAD • Perfusion Analysis • Hibernating Myocardium • The Future of Quantitative Imaging	3:00 pm – 3:30 pm	Refreshment Break / Exhibits and Posters
9:30 am – 10:00 am	CMR Questionnaire	3:30 pm – 5:00 pm	Invited Lecture Session 3 Multimodality and Hybrid Imaging • Strategies for Cardiovascular MRI-PET • Inflammation and Cardiovascular Imaging with PET • Perfusion Imaging with CT: State of the Art and Outlook • Strategies for Image Fusion: Electrophysiology Applications • Cardiovascular Function: Lessons to Learn from CT • Q & A
10:00 am – 10:30 am	Refreshment Break / Exhibits and Posters	3:30 pm – 5:00 pm	Case Review 4 - Perfusion Imaging by CMR: Both Usual & Unusual Cases
10:30 am – 12:00 pm	Invited Lecture Session 1 Small Animal Imaging • Myocardial Function, Perfusion, and Parametric Mapping in Small Animal Models of Heart Disease • Molecular and Cellular MRI Methods in Small Animal Models of Heart Disease • Enhanced CMR in Small Animals using State-of-the-Art Acceleration Techniques • Experimental Therapies and Molecular Mechanisms Explored using CMR in Mouse Models of Ischemic Heart Disease • Developmental Changes of Cardiomyocyte Architecture • Q & A	3:30 pm – 5:00 pm	Oral Abstract Session 5 – ECA Translational
10:30 am – 12:00 pm	Case Review 2 - Things That Are Bright That Are Not MI	3:30 pm – 5:00 pm	Oral Abstract Session 6
10:30 am – 12:00 pm	Oral Abstract Session 1 – ECA Clinical	5:00 pm – 6:30 pm	Invited Lecture Session 4 Phenotyping and Risk Stratification in Hypertrophic Cardiomyopathy • CMR for Diagnosis and Phenotypic Characterization in HCM.... • How Should I Quantify LGE in HCM? • Debate: LGE can be Used for Risk Stratification of Sudden Death in HCM....Antagonist • Debate: LGE can be Used for Risk Stratification of Sudden Death in HCM....Protagonist • Future Directions for CMR in HCM...T1 Mapping and Other Novel Methods for Detection of Abnormal Substrate • Q & A
10:30 am – 12:00 pm	Oral Abstract Session 2		

*Subject to Change

5:00 pm – 6:30 pm Case Review 5 - Cardiac Masses:
Correlating Imaging with Pathology

5:00 pm – 6:30 pm Oral Abstract Session 7

5:00 pm – 6:30 pm Oral Abstract Session 8

6:30 pm – 7:30 pm Moderated Poster Session 1 / Wine and
Cheese Reception

Saturday, January 18, 2014

6:30 am – 8:00 am Continental Breakfast / Exhibits and
Posters

7:00 am – 8:00 am Cardiology for Non-Cardiologists 2
Non-Ischemic Heart Disease

- Infiltrative Cardiomyopathies: An Overview
- Myocarditis: Pathogenesis and Consequences
- Interesting Case of Non-ischemic Heart Disease
- Q & A

7:00 am – 8:00 am Clinical Trial Workshop 2

- How To Do It: Choosing a CMR Outcome
- How To Do It: Power Calculations and Sample Size
- How To Do It: Incorporating Imaging Data into a Trial
- Q & A

7:00 am – 8:00 am Physics for Physicians 2
Late Gadolinium Enhancement

- Acquisition
- Post-Processing
- Future Perspective
- Q & A

7:00 am – 8:00 am Case Review 6 - CMR in Valvular Heart -
Disease Decision-making

8:00 am – 9:30 am Invited Lecture Session 5
T1 Mapping

- T1- and ECV-mapping Methods - The Consensus Statement
- Fibrosis and Edema
- Native Contrast T1-mapping Applications
- ECV Mapping Applications
- And the Right Ventricle?
- Q & A

8:00 am – 9:30 am Case Review 7 - Congenital Heart Disease/
Pediatric Cases

8:00 am – 9:30 am Oral Abstract Session 9

8:00 am – 9:30 am Oral Abstract Session 10

9:30 am – 10:00 am Refreshment Break / Exhibits and Posters

10:00 am – 11:30 am Invited Lecture Session 6
Vascular Imaging and Endothelial Function

- Quantifying Vascular Function
- Ultra Fast or High Resolution? Technical Approaches for MRA
- Pulmonary Vascular and Lung Function
- Aortic and Peripheral Vessel Assessment
- Coronary Imaging: State of the art
- Q & A

10:00 am – 11:30 am Invited Lecture Session 7
CMR in Asia

- Insights from Asia
- Prognostic Value of CMR and Coronary MRA
- Cost-effectiveness of CMR in Asia
- Cardiovascular Inflammatory Diseases: Insights from the Indian Experience with CMR
- Diffusion Tensor Imaging for Myocardium
- Q & A

10:00 am – 11:30 am Invited Lecture Session 8
CMR in Electrophysiology

- Techniques to Visualize Atrial Tissue
- Real-time Imaging - In Case of Atrial Fibrillation
- CMR to Guide Intervention in EP-studies
- Left Atrial Sphericity Predicts AF Ablation Outcome
- Devices and EP - Safety in MR
- Q & A

10:00 am – 11:30 am Oral Abstract Session 11

11:30 am – 12:30 pm Moderated Poster Session 2 / Lunch /
Exhibits and Posters

12:30 pm – 2:00 pm Invited Lecture Session 9
Congenital I - Unraveling the Complexity of CHD with MR

- CMR-based Computational Fluid Dynamics of Coarctation of the Aorta
- CMR-based Computational Fluid Dynamics in Staged Repair of Hypoplastic Left Heart Syndrome
- Intra-cardiac 4D Flow in Health and Congenital Heart Disease
- Rapid Prototyping in Complex CHD
- CMR-based Myocardial Deformation Imaging in Tetralogy of Fallot
- Q & A

12:30 pm – 2:00 pm Case Review 8 - When CMR
Complements Other Modalities

12:30 pm – 2:00 pm Oral Abstract Session 12

12:30 pm – 2:00 pm Oral Abstract Session 13

2:00 pm – 2:30 pm Refreshment Break / Exhibits and Posters

*Subject to Change

2:30 pm – 4:00 pm	Invited Lecture Session 10 Congenital II - Advanced CMR Ready for the Clinical Arena? • CMR-based Electro-anatomical Mapping and Ablation Imaging in CHD • CMR Imaging of Kawasaki Disease: Assessing the Coronary Arteries • An Old Idea Taken Further: CMR in Pediatric Heart Transplantation Recipients • The Gender Impact on the Long-term Outcome after TOF Repair • T1 Mapping in Pediatric and Congenital Heart Disease • Q & A
2:30 pm – 4:00 pm	Case Review 9 - Novel Characterizations of Cardiac Physiology by CMR
2:30 pm – 4:00 pm	Oral Abstract Session 14
2:30 pm – 4:00 pm	Oral Abstract Session 15
4:00 pm – 5:30 pm	Invited Lecture Session 11 Interventional CMR: State-of-the-Art and Future Directions • Overview of Clinical iCMR • Pediatric Applications of iCMR • iCMR Software Platforms • Devices for iCMR • MR Guided EP • Q & A
4:00 pm – 5:30 pm	Invited Lecture Session 12 Future Directions in IHD: Perfusion, FFR, Tissue Characterization • Current and Future Role of FFR in Therapeutic Decision Making • Lessons from MR IMPACT-II • Future Directions in T1 Characterization • Recent Advances in Myocardial T2-mapping • From Coronary MRA to Coronary MRI - A Comprehensive look at the Coronaries • Q & A
4:00 pm – 5:30 pm	Oral Abstract Session 16
4:00 pm – 5:30 pm	Oral Abstract Session 17
5:30 pm – 6:00 pm	CMR Technology Updates
6:00 pm – 6:30 pm	Awards Ceremony
6:30 pm – 8:00 pm	Awards Reception

Sunday, January 19, 2014

6:30 am – 8:00 am	Continental Breakfast
7:00 am – 8:00 am	Cardiology for Non-Cardiologists 3 Valvular Heart Disease • Mitral Regurgitation: Causes and Hemodynamic Effects • Aortic Stenosis: Pathogenesis and Cardiovascular Consequences • Interesting Case of Valvular Heart Disease • Q & A
7:00 am – 8:00 am	Clinical Trial Workshop 3 • Pitfalls in Cardiac Imaging Trials • An Industry Perspective on Clinical Trials Using CMR • How I did it: Lessons from a Real-world CMR Trialist • Q & A
7:00 am – 8:00 am	Physics for Physicians 3 Perfusion MRI • Acquisition • Post-processing • Future Perspective • Q & A
8:00 am – 9:30 am	Invited Lecture Session 13 Update on Major Prospective Cohort Studies with CMR • AGES (ICELAND) • MESA • UK Biobank • Jackson Heart Study • Framingham Heart Study • Q & A
8:00 am – 9:30 am	Invited Lecture Session 14 Quantification in CMR: T1/T2/T2*/Flow/Perfusion • T1 Mapping and Its Advantages over T2 Mapping • T2 Mapping and Its Advantages over T1 Mapping • CMR Flow Quantification: Applications, Reproducibility, and Pitfalls • CMR Perfusion Quantification: Fact or Fiction? • CT FFR Is All We Need • Q & A
8:00 am – 9:30 am	Case Review 10 - Best Cases from the SCMR Website
8:00 am – 9:30 am	Oral Abstract Session 18
9:30 am – 10:00 am	Refreshment Break

10:00 am – 11:30 am **Invited Lecture Session 15**
Emerging CMR Technologies

- CMR at 7 T: Quantum Leap in Vascular and Coronary Imaging?
- Self-Navigation in CMR
- Exercise Stress CMR
- Breaking the Speed Limits
- CMR Elastography
- Q & A

10:00 am – 11:30 am **Invited Lecture Session 16**
NIHD Heart Failure: CMR to Guide Therapy

- CMR Findings in the Failing Heart: A Pattern Approach
- Impact of CMR on Therapy in Dilated Cardiomyopathy
- Treatment and Follow-up of Acute Myocarditis Based on CMR Findings
- Right Heart Failure in GUCH: Therapeutic Decisions Based on CMR
- CMR to Guide Stem Cell Therapy in Heart Failure
- Q & A

10:00 am – 11:30 am **Invited Lecture Session 17**
Multi-organ Diseases

- Amyloidosis
- Sarcoidosis
- Lupus
- Carcinoid
- Muscular Dystrophy
- Q & A

10:00am – 11:30 am **Oral Abstract Session 19**

11:30 am – 1:00 pm **Closing Plenary**

- Enhance CMR Visibility: Advanced Structured Reporting
- Lessons to Learn from Small Animal CMR
- Pulmonary Valve Replacement in Fallot: Routine or Experimental?
- Interventional MR: Where Are We, Where Do We Go?

1:00 pm – 1:30 pm **Closing Remarks and Highlights from the 2014 Scientific Sessions**

*Subject to Change



SCMR 2014 Technologist Track - Preliminary Agenda *



Friday, January 17, 2014

10:15 AM - 10:20 AM	Welcoming Remarks
10:20 AM - 12:00 PM	CMR Essentials - The Nuts and Bolts • CMR Physics is Fun • ECG Interpretation for Techs - How this Helps Imaging • Safety Forum - Your Chance to Ask the Experts
12:00 PM - 12:30 PM	SCMR Business Meeting
12:30 PM - 1:30 PM	Lunch (on own) / Exhibits / Posters
1:30 PM - 3:15 PM	Basic CMR- Anatomy, Function and Flow • Normal and Abnormal Cardiac Anatomy - What Should Be Where and Why • Ventricular Function - How to Acquire and Analyze • Cardiac Flow - How to Acquire and Analyze
3:15 PM - 3:45 PM	Afternoon Break / Exhibits / Posters
3:45 PM - 5:45 PM	Basic CMR - What's New to Clinical Practice • T1 and T2 Mapping Techniques - Where They Can Help • Myocardial Strain - Tagging Techniques • Contrast and Non-contrast Angiographic Techniques • Friday Round-up. Pertinent Points of the Day
6:30 PM - 7:30 PM	Moderated Poster Session 1 Wine and Cheese Reception

Saturday, January 18, 2014

7:45 AM - 9:30 AM	Ischemia and Viability - How and Why • Adenosine Stress - How and Why • Dobutamine Stress - How and Why • Viability - Dead is Bright or Bright is Dead?
9:30 AM - 10:00 AM	Refreshment Break
10:00 AM - 11:30 AM	Abstracts • Abstract #3 • Abstract #2 • Abstract #1 - Best abstract • Vendor Session: All You Wanted to Know About CMR But Were Afraid to Ask
11:30 AM - 12:30 PM	Moderated Poster Session 2 / Lunch (on own) / Exhibits / Posters

12:30 PM - 2:10 PM	CMR in the Assessment of Cardiomyopathies • Imaging in Hypertrophic Cardiomyopathy • Metabolic Cardiomyopathies • Imaging in Heart Failure
2:15 PM - 2:45 PM	Afternoon Break / Exhibits / Posters
2:45 PM - 5:30 PM	CMR in Pediatrics and Congenital Heart Diseases • Pediatric CMR - Tips and Tricks • GUCH - Imaging the Adult with Repaired Congenital Heart Disease • Fetal Imaging • Case Review - Read with the Experts • Saturday Round-up: Pertinent Points of the Day
5:30 PM - 6:00 PM	CMR Technology Updates
6:00 PM - 6:30 PM	Awards Ceremony
6:30 PM - 8:00 PM	Awards Reception

Sunday, January 19, 2014

7:15 AM - 9:30 AM	Hot Topics in CMR • CMR Manifestations in Systemic Inflammatory Disease • CMR in HIV • Accelerated CMR - Have We Got Quicker? • 1H Spectroscopy for Cardiac Steatosis - A New Pre-clinical Tool?
9:30 AM - 10:00 AM	Refreshment Break
10:00 AM - 11:05 AM	New Horizons in CMR • 4D Flow in Aortic Disease - Do Flow Patterns Matter? • Diffusion Tensor Imaging in the Heart
11:05 AM - 11:30 AM	Technology Track Highlights

*Subject to Change



General Information

CONTINUING MEDICAL EDUCATION CREDIT INFORMATION

This activity is being planned and implemented in accordance with the Essential Areas and Policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint sponsorship of the University of Minnesota and the Society for Cardiovascular Magnetic Resonance (SCMR). The University of Minnesota is accredited by the ACCME to provide continuing medical education for physicians. *An application for credit has been submitted. Determination of the exact number of credits is pending.*

DISCLOSURE STATEMENT

It is the policy of the University of Minnesota Office of Continuing Medical Education and the SCMR to ensure balance, independence, objectivity and scientific rigor in all of its sponsored educational activities. In accordance with ACCME and the University of Minnesota guidelines, all participating speakers and planning committee members are required to disclose to the program audience any financial relationships they have with commercial interests related to the subject matter of this program.

Disclosure information is reviewed in advance in order to manage and resolve any possible conflicts of interest (real or perceived). All disclosure information for the planning committee and faculty members will also be published in the Final Program.

TECHNOLOGIST TRACK CONTINUING EDUCATION CREDITS

Application has been submitted to The American Society of Radiological Technologists (ASRT) to award Category A continuing education units. *Accreditation is pending.*

EXHIBITS

The 17th Annual SCMR Scientific Sessions will offer exhibits for viewing and representatives will be on hand to answer questions. Please visit the exhibits as they are an integral part of the meeting.

ACKNOWLEDGEMENTS

The Society for Cardiovascular Magnetic Resonance gratefully acknowledges the support of these scientific sessions and SCMR's objectives from our industry supporters. A complete list will be made available at the conference.

CONFERENCE REGISTRATION

The registration fee for the 17th Annual Scientific Sessions includes: admittance to educational sessions and the exhibit hall, refreshment breaks, poster reception, and the award reception.

Registration can be submitted on-line through the SCMR website at www.scmr.org/meetings under the Meeting Registration Link or by completing and mailing, emailing, or faxing the Scientific Sessions Registration Form included in this brochure.

MEMBER DISCOUNT

SCMR Members (MD, PhD, Trainee, Technologist /Allied Health) will receive a discount for registering for both a Pre-conference Course and the Scientific Sessions. Please see the registration form for fees.

GROUP DISCOUNT

For every five paid regular registrations from the same institution, a complimentary trainee or technologist registration will be offered. All forms from the group must be submitted together via fax: +856-423-3420 or email: SCMRmtg@talley.com. Please note: online registration is not available with the group discount.

REGISTRATION WITH COURTESY MEMBERSHIP

SCMR is offering a courtesy membership for one year (ending 12/31/14) for those attendees who select this option when registering as a non-member. If you would like to accept this offer, please select the Registration with Courtesy Membership category on the registration form.

PLEASE NOTE

Membership renewal dues for 2014 must be paid by December 31, 2013 in order to receive the Member Registration Rate for the 17th Annual SCMR Scientific Sessions. Your credit card will be charged the Member / Non-Member difference if your renewal has not been processed by December 31, 2013.

CONFIRMATIONS

Registrations will be acknowledged with a confirmation via email if registering online or within two (2) weeks of receipt of a registration form. Please be sure to provide a valid e-mail address so that we may send your confirmation electronically.

SPECIAL NEEDS ACCOMMODATIONS

SCMR wishes to ensure that no individual with a disability is excluded, denied services, segregated or otherwise treated differently than other individuals because of the absence of auxiliary aids or services. If you need any auxiliary aids or services identified in the Americans with Disabilities Act, or any assistance in registering, please contact the SCMR Meetings Department at (856)-423-8955, or email SCMRmtg@talley.com.

HOTEL ACCOMMODATIONS



Hilton New Orleans Riverside
Two Poydras Street
New Orleans, Louisiana 70140
Telephone: 504-561-0500
Reservations: 800-HILTONS
Fax: 504-556-3788
Web: www.NewOrleans.Hilton.com

The negotiated room rate at the Hilton New Orleans Riverside is \$192.00/night for single or double occupancy plus taxes (currently 13%) and fees (\$3.00 hotel occupancy tax), subject to change. Room reservations and rates will be confirmed on a first come, first served basis until December 17, 2013; after this date, reservation requests will be based on the hotel's availability and prevailing rates. All sleeping room reservations must be guaranteed with a credit card. It is recommended that you make your hotel reservations as early as possible to ensure availability.

Experience the best the Crescent City has to offer from the beautiful Hilton New Orleans Riverside. Located on the banks of the Mississippi, this full-service New Orleans French Quarter hotel is close to countless attractions and restaurants. Settle into comfortable accommodations, and explore this "city within itself". Enjoy the expansive health club. Dine in legendary restaurants. Few French Quarter New Orleans hotels offer so much luxury in such a prime location.

Reservations at the discounted group rate can be made through the SCMR website at www.scmr.org/meetings by clicking the hotel reservation link; or by calling the toll-free reservation line (800-HILTONS). When making your reservation, be sure to reference SCMR to obtain the negotiated group rate.

WEATHER IN NEW ORLEANS

New Orleans has a subtropical climate with pleasant year-round temperatures. January temperatures range from the mid 40's to the mid-60's. Rainfall is common in New Orleans, with a monthly average of about five inches of precipitation.



Society for Cardiovascular Magnetic Resonance

17th Annual Scientific Sessions

HILTON NEW ORLEANS RIVERSIDE, NEW ORLEANS, LOUISIANA

REGISTRATION FORM

For additional information or assistance with this form, telephone: 856-423-8955 option 3. FAX completed form to SCMR Registration: 856-423-3420.

Save time, click [HERE](http://www.scmr.org) to register online or visit www.scmr.org

First (Given) Name	M.I.	Last (Family) Name	Name on badge	
Affiliation (Employer)		Position/Title	Degree	
Business Address	City	State/Province	Country	Zip Code
Business Telephone		Fax Number	E-Mail Address	

Primary Specialty (required field): Select One

- ☐ Cardiologist
- ☐ Radiologist
- ☐ Non-Physician Scientist
- ☐ Nuclear Medicine
- ☐ Physician (other specialty)
- ☐ Technologist/Allied Health
- ☐ Non-Medical

Activities Engaged in (select all that apply):

- | | | | |
|--|--|---|---|
| ☐ Administration/Management | ☐ Echocardiography | ☐ Interventional Radiology | ☐ Private Practice |
| ☐ Industry | ☐ General Radiology | ☐ Invasive Cardiology | ☐ Research |
| ☐ Cardiac CT | ☐ General Ultrasound | ☐ Invasive Radiology | ☐ Stress CMR |
| ☐ Cardiac Surgery | ☐ Hospital | ☐ Nuclear Medicine (AI) | ☐ Teaching |
| ☐ Cardiothoracic Radiology | ☐ Internal Medicine | ☐ Pediatrics | ☐ University |
| ☐ Clinical Cardiology | ☐ Interventional Cardiology | ☐ PET Imaging | |
| ☐ Diagnostic CMR | ☐ Interventional CMR | | |

REGISTRATION CATEGORIES AND FEES

SCIENTIFIC SESSIONS

	Early Reg Fees on or before Dec 16, 2013	Regular Reg Fees After Dec 16, 2013 and On-Site	
☐ SCMR Member (MD, PhD)	\$625.00	\$700.00	\$ _____
☐ Trainee/Technologist/Allied Health Pro Member	\$200.00	\$250.00	\$ _____
☐ Emeritus Member	\$300.00	\$350.00	\$ _____
☐ Registration with Courtesy SCMR Membership	\$895.00	\$970.00	\$ _____
☐ Non-Member - MD/PhD	\$925.00	\$1000.00	\$ _____
☐ Non-Member - Trainee	\$425.00	\$475.00	\$ _____
☐ Non-Member - Technologist/Allied Health	\$400.00	\$450.00	\$ _____

PRE-CONFERENCE COURSES

THURSDAY, JANUARY 16, 2014 (FULL DAY)

Physician Pre-conference

☐ Member (MD, PhD)	\$300.00	\$350.00	\$ _____
☐ Member/Trainee/Technologist/ Allied Health Professional	\$150.00	\$200.00	\$ _____
☐ Non-Member - MD/PhD	\$375.00	\$425.00	\$ _____
☐ Non-Member - Trainee/Technologist/ Allied Health Professional	\$200.00	\$250.00	\$ _____

Congenital/Pediatric Pre-conference Course

☐ Member (MD, PhD)	\$300.00	\$350.00	\$ _____
☐ Member/Trainee/Technologist/ Allied Health Professional	\$150.00	\$200.00	\$ _____
☐ Non-Member - MD/PhD	\$375.00	\$425.00	\$ _____
☐ Non-Member - Trainee/Technologist/ Allied Health Professional	\$200.00	\$250.00	\$ _____

MEMBERSHIP (JOIN OR RENEW)

☐ Regular Member	\$250	\$250	\$ _____
☐ Trainee Member	\$ 70	\$ 70	\$ _____
☐ Technologist/Allied Health Member	\$ 70	\$ 70	\$ _____
☐ Emeritus Member	\$ 70	\$ 70	\$ _____

Please note: Membership renewal dues for 2014 must be paid by December 31, 2013 in order to receive a Member Rate for registration to the 17th Annual SCMR Scientific Sessions. Your credit card will be charged the Member/Non-Member difference if your renewal has not been processed by December 31, 2013.

☐ Special Institutional Group Discount (See Page 10 for instructions) \$ _____

TOTAL * \$ _____

☐ I wish to pay my fees by **credit card**. Please note: this charge will appear on your statement as "SCMR Reg".

☐ American Express (15 digits) ☐ MasterCard (16 digits) ☐ Visa (13-16 digits)

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Credit Card Number

--	--	--	--

Expiration Date

Name on Card: _____ Authorizing Signature: _____

MEMBER DISCOUNT

Are you a member of SCMR and registering for both a Pre-conference Course and the 2014 Scientific Sessions? Members (MD, PhD, Trainee, Technologist /Allied Health) will receive a discount for registering for both a Pre-conference Course and the Scientific Sessions. Fees below include member discount.

	Early Reg Fees on or before Dec 16, 2013	Regular Reg Fees After Dec 16, 2013 and On-Site
☐ Regular Member	\$825	\$950
☐ Trainee/Technologist/Allied Health Member	\$325	\$425
☐ Registration with Courtesy SCMR Membership	\$1095	\$1220

☐ Please check here to authorize SCMR to make your email address available to the exhibitors at the 2014 SCMR Scientific Sessions.



☐ Please check here if assistance is needed.

CANCELLATION POLICY

All registration cancellation requests must be received via fax (856-423-3420), email (SCMRmtg@talley.com) or in writing to SCMR Registration, 19 Mantua Road, Mt. Royal, NJ 08061 and postmarked **no later than December 16, 2013**. Fees paid will be refunded minus a \$50.00 processing fee. **There will be no refunds after the December 16, 2013 deadline.**

METHOD OF PAYMENT

Registration will not be processed without payment.

☐ Enclosed is a check payable to SCMR. Checks must be payable in U.S. Dollars and issued by a U.S. Correspondent Bank. Please check with your local bank before sending payment. Each registrant is responsible for any and all bank charges. A \$50.00 processing fee will be charged for checks returned unpaid.

Registrations paid by credit card may be faxed to 856-423-3420. Keep a copy of your fax transmittal confirmation for your record. If faxing, do not mail the original form. Doing so may result in duplicate charges to your credit card.

* Note: SCMR reserves the right to charge the correct amount if different from total.

RETURN THIS COMPLETED FORM WITH PAYMENT TO:

SCMR REGISTRATION

19 Mantua Road, Mt. Royal, NJ 08061

Fax: 856-423-3420 • SCMRmtg@talley.com



SCMR/ISMRM Jointly Sponsored Workshop Preliminary Program

“Accelerated CMR: Towards Comprehensive Clinical Cardiovascular Imaging”

8:00 am – 7:30 pm

Overview

The purpose of the workshop is to inform academic researchers and clinical scientists about state-of-the-art and emerging accelerated MRI techniques for cardiovascular imaging. Participants are expected to gain knowledge and strategies for practice which will allow them to work with existing fast imaging methods to reduce imaging time, improve spatial and temporal resolution, and promote the development of new applications. Novel image reconstruction techniques including parallel imaging and compressed sensing methods will be examined. Efficient pulse sequence techniques and methods to increase patient throughput will be explored. In addition, the workshop will provide a forum for disseminating information related to cutting-edge rapid imaging techniques for the evaluation of cardiovascular structure, function, myocardial viability and perfusion, tissue characterization, MR angiography, and flow. Emerging applications and outstanding areas of clinical need in cardiovascular MRI will be discussed in order to link technical developments with clinical practice. The multidisciplinary faculty and broad audience will ensure that technologies and methodologies are communicated and shared between cardiologists, radiologists, physicists, engineers, physiologists, trainees, and technologists.

Thursday, January 16, 2014

8:00 am - 9:00 am	Opening Session - Rapid CMR: Technology Driving Innovation Welcome Address Plenary Lecture <i>Historical Developments in Fast Imaging</i> Plenary Lecture <i>Remaining Clinical Challenges and Problems to Solve</i>
9:00 am - 11:00 am	Scientific Session I: Advances in Reconstruction Strategies Foundations of Reconstruction Techniques for Rapid Imaging State-of-the-Art and Up-and-Coming Reconstruction Techniques for CV Imaging Oral Abstracts
11:00 am - 11:20 am	Refreshment Break & Posters
11:20 am - 12:50 pm	Scientific Session II: Advances in Rapid Sequences and Protocols Faster Imaging with Faster Sequences Faster Protocols for Patient Throughput Oral Abstracts
12:50 pm - 2:00 pm	Lunch (on own) & Poster Viewing
2:00 pm – 4:00 pm	Scientific Session III: Fast Imaging - Putting It Into Practice Multi-dimensional Acceleration for Comprehensive Cardiovascular MRI: Implementation & Application in the Clinic Implementation and Clinical Application for Hardware-Accelerated CMR Reconstruction Oral Abstracts
4:00 pm - 4:30 pm	Refreshment Break & Posters
4:30 pm - 6:00 pm	Session IV - Clinical State-of-the-Art and What Lies Ahead Fast Imaging - Promises and Pitfalls Envisioning the CMR Exam of the Future Oral Abstracts
6:00 pm - 7:30 pm	Poster Session & Reception



SCMR/ISMRM Jointly Sponsored Workshop
Accelerated CMR: Towards Comprehensive Clinical Cardiovascular Imaging
Hilton New Orleans Riverside, New Orleans, Louisiana
Thursday, January 16, 2014

REGISTRATION FORM

For additional information or assistance with this form, telephone: 856-423-8955 option 2. FAX completed form to SCMR Registration: 856-423-3420.

Save time -- register on line at www.scmr.org

First (Given) Name	M.I.	Last (Family Name)	Name on Badge		
Affiliation (Employer)		Position/Title		Degree	
Business Address		City	State/Province	Country	Zip Code
Business Telephone		Fax Number	Email Address		

SCMR/ISMRM Jointly Sponsored Workshop Registration Fees

	On or before December 16, 2013	After December 16, 2013 and On-Site
☐ SCMR/ISMRM Member (MD/PhD)*	\$300.00	\$350.00
☐ SCMR/ISMRM Member (Trainee)*	\$150.00	\$200.00
☐ SCMR/ISMRM Member (Technologist/Allied Health)*	\$150.00	\$200.00
☐ Non-member (MD/PhD)	\$375.00	\$425.00
☐ Non-member (Trainee/Technologist)	\$200.00	\$250.00

Combined Registration Fees for SCMR/ISMRM Workshop plus Scientific Sessions

Attending the SCMR Scientific Sessions on January 17-19, 2014? Members of both SCMR and ISMRM receive a discount off the registration fees for the 2014 SCMR Scientific Sessions.

☐ SCMR/ISMRM Member (MD/PhD)*	\$825.00	\$950.00	\$ _____
☐ SCMR Courtesy Membership (MD/PhD)	\$1095.00	\$1220.00	\$ _____
☐ SCMR/ISMRM Member (Trainee)*	\$325.00	\$425.00	\$ _____
☐ SCMR/ISMRM Member (Technologist/Allied Health)*	\$325.00	\$425.00	\$ _____
☐ Non-member (MD/PhD)	\$1300.00	\$1425.00	\$ _____
☐ Non-member (Trainee)	\$625.00	\$725.00	\$ _____
☐ Non-member (Technologist/Allied Health)	\$600.00	\$700.00	\$ _____
		Total**	\$ _____

❑ **Special Institutional Group Discount:** For every five paid regular registrations from the same institution, one complimentary member trainee or technologist registration will be offered. Online registration for the special institutional group discount is not available. All forms from the group must be submitted together via fax: +856-423-3420 or email: SCMRmtg@talley.com.

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*Note: SCMR reserves the right to charge the correct amount if different from total.

☐ I wish to pay my fees by credit card. Please note: this charge will appear on your statement as "SCMR Reg".

☐ American Express (15 digits) ☐ MasterCard (16 digits) ☐ Visa (13-16 digits)

[illegible]

Expiration Date _____/_____/_____

Name on Card (please print): _____ Authorizing Signature: _____

☐ Please check here to authorize SCMR to make your email address available to exhibitors at the 2014 SCMR Scientific Sessions.

☐  Please check if assistance is needed.

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RETURN THIS COMPLETED FORM WITH PAYMENT TO: SCMR REGISTRATION
19 Mantua Road, Mt. Royal, NJ 08061 • Fax: 856-423-3420

JOIN SCMR TODAY

and save on your registration fees!
Register online at www.scmr.org

MEMBERSHIP BENEFITS

Free authorship in the open access publication *Journal of Cardiovascular Magnetic Resonance*

Annual International Scientific Sessions

Exclusive members-only web-based services

Protocols and Standards for training and practice

Discounts on SCMR educational events and materials

MEMBERSHIP DESCRIPTIONS

Regular Member

A physician, scientist, or industry (community) member who satisfies the requirements of good character and who has demonstrated an interest in CMR. All regular members have the right to hold office and vote providing that dues are paid and current.

Trainee Member

Physicians in training, doctoral candidates, and post-doctoral fellows who are receiving training, experience or competence in CMR. Trainee members are eligible for up to 4 years and must provide a letter of verification of active training from their institution yearly. Trainee members may advance to full membership upon completion of training and application to the Society. Trainee members may vote and serve on committees.

Technologist/Allied Health Member

Two years active, direct experience in the field are required to become a technologist/allied health member having the right to vote and to hold office, providing that dues are paid and current.

Emeritus Member

Emeritus member status is available to a member in good standing for the previous five years who is retired from active practice, teaching and research, and is at least 65 years of age. Applications are reviewed and approved by the Executive Committee. Emeritus members cannot hold elected office or serve as committee chairs, but do receive member discounts to meetings, may vote and serve on committees.

Associate Member (Developing Countries Only)

The Associate Membership category is available to medical professionals (MD and PhD) who work in developing countries where the prevailing wage makes regular Society membership dues unaffordable. The features and application procedure are detailed on the SCMR website.



SCMR

19 Mantua Road
Mt. Royal, NJ 08061 USA

www.scmr.org