SCMR/ISMRM Jointly Sponsored Workshop

Accelerated CMR: Towards Comprehensive Clinical Cardiovascular Imaging

Presented by the SCMR and the ISMRM Cardiac MR and Flow & Motion Quantitation Study Groups

Thursday, January 16, 2014

Hilton New Orleans Riverside, New Orleans, LA

www.SCMR.org www.ISMRM.org
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 which will allow them to work with existing fast imaging methods to reduce imaging time, improve spatial and temporal resolution, and enable 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 interdisciplinary faculty and broad audience will ensure that technologies and methodologies are communicated and shared between cardiologists, radiologists, physicists, engineers, physiologists, trainees, and technologists.

Target Audience
This workshop is designed for:

- Academic scientists including cardiologists, radiologists, engineers and physicists, physiologists, and those who work in fields related to these disciplines.
- Clinicians interested in learning about the most recent advances in rapid imaging and those interested in incorporating rapid imaging techniques in their clinical practice to increase patient throughput or take advantage of novel ways of diagnosing cardiovascular disease.
- Medical, biological, and industrial researchers with an interest in emerging technology for rapid cardiovascular MRI and its implications for clinical cardiovascular MRI.
- Cardiac and other MRI applications specialists and technologists who strive to gain a deeper insight into the basics of rapid MRI sequences and reconstruction techniques and their benefits for cardiovascular MRI.
- Trainees seeking to understand the capabilities and limitations of rapid cardiovascular imaging technology in order to develop improved imaging methods. This may include undergraduate and graduate students, post-doctoral trainees, residents, and fellows.
**Educational Objectives**

*Upon completing this workshop, participants should be able to:*

- Describe current clinical challenges in cardiovascular MRI and explain how rapid imaging techniques can alleviate these problems.
- Explain the basics of rapid MRI techniques for cardiovascular applications, including parallel imaging and compressed sensing.
- Understand different state-of-the-art image reconstruction techniques for rapid cardiovascular MRI and articulate the advantages and disadvantages for each technique.
- Examine and select efficient pulse sequences for different cardiovascular applications.
- Design faster cardiovascular MRI protocols for higher patient throughput.
- Describe remaining challenges for the adoption and clinical implementation of state-of-the-art rapid imaging techniques and technologies to improve clinical image quality.
- Explain why rapid MRI techniques have not led to breakthroughs in certain aspects of cardiovascular imaging, and develop strategies to avoid similar failures in the future.
- Articulate several areas where rapid imaging could be transformative for clinical imaging in the near future.

**Hotel Accommodations**

The Hilton New Orleans Riverside in New Orleans, Louisiana, has been selected to host the SCMR / ISMRM Workshop and the SCMR 17th Annual Scientific Sessions. 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 that date, reservation requests will be based on availability at the hotel’s 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 adjacent to countless attractions and restaurants. Settle into comfortable accommodations, enjoy the expansive healthclub and dine within legendary restaurants.

Reservations at the 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, please be sure to reference SCMR to obtain the negotiated group rate.

**Hilton New Orleans Riverside**

Two Poydras Street
New Orleans, Louisiana 70140
Telephone: 504-561-0500
Reservations: 800-HILTONS
Fax: 504-556-3788
Thursday, January 16, 2014

8:00 am - 9:00 am  Opening Session: Rapid CMR: Technology Driving Innovation
                    Welcome Address
                    Plenary Lecture
                    Historical Developments in Fast Imaging
                    Plenary Lecture
                    Remaining Clinical Challenges and Problems to Solve

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
### 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**

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<th>First (Given) Name</th>
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### SCMR/ISMRM Jointly Sponsored Workshop Registration Fees

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<th>On or before December 16, 2013</th>
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<tr>
<td>SCMR/ISMRM Member (MD/PhD)*</td>
<td>$300.00</td>
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<tr>
<td>SCMR/ISMRM Member (Trainee) *</td>
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<tr>
<td>SCMR/ISMRM Member (Technologist/Allied Health) *</td>
<td>$150.00</td>
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<tr>
<td>Non-member (MD/PhD)</td>
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<td>Non-member (Trainee/Technologist)</td>
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**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.

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<tr>
<td>SCMR/ISMRM Member (MD/PhD)*</td>
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<td>SCMR Courtesy Membership (MD/PhD)</td>
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<td>SCMR/ISMRM Member (Trainee) *</td>
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<tr>
<td>SCMR/ISMRM Member (Technologist/Allied Health) *</td>
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<td>Non-member (MD/PhD)</td>
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<td>Non-member (Trainee)</td>
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**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.

**Note:**

*SCMR membership renewal dues for 2014 must be paid by December 31, 2013 to receive the 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.

### METHODS OF PAYMENT

- 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.

### CANCELLATION POLICY

All registration cancellations 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.

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.

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