FINAL PROGRAM

SCMR/EuroCMR Joint Scientific Sessions
Sharing Global CMR Experience & Innovation
February 4-7, 2015 • Nice, France

Nice Acropolis Convention Centre
**SCHEDULE AT A GLANCE**

### WEDNESDAY, FEBRUARY 4, 2015

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>9:00 am - 6:30 pm</td>
<td>SCMR/ISMRM Joint Workshop  “Myocardial Tissue Characterization with MR Relaxometry: Principles and Emerging Methods” CALLIOPE</td>
</tr>
</tbody>
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### THURSDAY, FEBRUARY 5, 2015

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>8:00 am - 2:00 pm</td>
<td>SCMR/ISMRM Joint Workshop (continued) CALLIOPE</td>
</tr>
<tr>
<td>2:30 pm - 4:15 pm</td>
<td>Opening Plenary Session - CMR’s Global Impact on Cardiovascular Health: What Have We Achieved and What are the Game Changes? Keynote Lecture - Valentin Fuster APOLLON</td>
</tr>
<tr>
<td>4:30 pm - 5:50 pm</td>
<td>Invited Lecture Session 1 Cardiomyopathy Assessment by T1/T2 Mapping in Clinical Practice APOLLON</td>
</tr>
<tr>
<td>6:00 pm - 7:00 pm</td>
<td>Welcome Reception (Wine/Cheese); Posters/Exhibits</td>
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### FRIDAY, FEBRUARY 6, 2015

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>7:30 am - 8:30 am</td>
<td>Physics for Physicians 1 APOLLON</td>
</tr>
<tr>
<td>8:40 am - 10:00 am</td>
<td>Invited Lecture Session 2 Cardiology for Non-Physicians 1 APOLLON</td>
</tr>
<tr>
<td>10:40 am - 12:00 pm</td>
<td>Invited Lecture Session 3 Interventional CMR APOLLON</td>
</tr>
<tr>
<td>2:10 pm - 3:30 pm</td>
<td>Invited Lecture Session 5 Case Review 6 APOLLON</td>
</tr>
<tr>
<td>3:40 pm - 4:10 pm</td>
<td>Refreshment Break/Exhibits/Posters - Rhodes Area</td>
</tr>
<tr>
<td>4:10 pm - 5:30 pm</td>
<td>Invited Lecture Session 6 Case Review 7 APOLLON</td>
</tr>
<tr>
<td>5:40 pm - 7:00 pm</td>
<td>Invited Lecture Session 8 Case Review 8 APOLLON</td>
</tr>
<tr>
<td>7:30 am - 8:30 am</td>
<td>Physics for Physicians 2 APOLLON</td>
</tr>
<tr>
<td>8:40 am - 10:00 am</td>
<td>Invited Lecture Session 9 Case Review 9 APOLLON</td>
</tr>
<tr>
<td>10:40 am - 12:00 pm</td>
<td>Invited Lecture Session 10 Case Review 10 APOLLON</td>
</tr>
<tr>
<td>12:00 pm - 1:30 pm</td>
<td>Moderated Oral Poster Competition Session 1/Lunch/Exhibits/Posters - RHODES AREA</td>
</tr>
<tr>
<td>1:30 pm - 2:00 pm</td>
<td>CMR Technology Update - APOLLON</td>
</tr>
<tr>
<td>2:10 pm - 3:30 pm</td>
<td>Invited Lecture Session 5 APOLLON</td>
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<tr>
<td>3:40 pm - 4:10 pm</td>
<td>Refreshment Break/Exhibits/Posters - Rhodes Area</td>
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<tr>
<td>4:10 pm - 5:30 pm</td>
<td>Invited Lecture Session 6 CLJO/THALIE</td>
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<tr>
<td>5:40 pm - 7:00 pm</td>
<td>Invited Lecture Session 8 CLJO/THALIE</td>
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### SATURDAY, FEBRUARY 7, 2015

<table>
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<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>7:30 am - 8:30 am</td>
<td>Physics for Physicians 2 APOLLON</td>
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<tr>
<td>8:40 am - 10:00 am</td>
<td>Invited Lecture Session 9 APOLLON</td>
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<tr>
<td>10:40 am - 12:00 pm</td>
<td>Invited Lecture Session 11 APOLLON</td>
</tr>
<tr>
<td>12:00 pm - 1:00 pm</td>
<td>Moderated Oral Poster Competition Session 2/Lunch/Exhibits/Posters - RHODES AREA</td>
</tr>
<tr>
<td>1:10 pm - 2:30 pm</td>
<td>Invited Lecture Session 12 APOLLON</td>
</tr>
<tr>
<td>2:40 pm - 4:00 pm</td>
<td>Invited Lecture Session 14 APOLLON</td>
</tr>
<tr>
<td>4:15 pm - 5:30 pm</td>
<td>Closing Plenary Session - CMR’s Impact on Global Cardiovascular Health: Latest progress and looking forward 2014 SCMR Gold Medal Award Winner Lecture - Warren Manning APOLLON</td>
</tr>
<tr>
<td>5:30 pm - 6:00 pm</td>
<td>Awards Ceremony - Apollon Auditorium</td>
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<tr>
<td>6:00 pm - 7:00 pm</td>
<td>Awards Reception - Muses Foyer</td>
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DEAR COLLEAGUES AND FRIENDS,

A warm bienvenue to Nice, France for the SCMR/EuroCMR 2015 Joint Scientific Sessions combining the best of both EuroCMR and SCMR in one location!

This is the premier CMR meeting covering the spectrum of cutting-edge basic technology development to pre-clinical and clinical translation. The joint Program Committee, incorporating direct input from the membership of both societies, has put together an exciting program entitled “Sharing Global CMR Experience & Innovation”. And thanks to our Abstract Chairs and your submissions, we will have the largest number of abstract presentations ever, with increased opportunities for oral presentation in the form of moderated poster sessions and poster walking tours.

During these days you will benefit from outstanding education, enthusiastic scientific exchange and networking opportunities. Choose from among four parallel pre-conferences/workshops offered on Thursday, including “CMR for Physicians” and “Congenital/Pediatric CMR,” and the new “Clinical Trials Workshop” and “Interventional CMR workshop.” For those of you who came a day early for the two-day SCMR/ISMRM Joint Workshop - “Myocardial Tissue Characterization with MR Relaxometry: Principles and Emerging Methods”, we hope you enjoyed it.

Thank you for being part of the SCMR/EuroCMR 2015 Joint Scientific Sessions. Also thank you to the SCMR and EuroCMR staffs, Program Committee, session organizers, and importantly our sponsors and exhibitors, without whom these SCMR/EuroCMR 2015 Joint Scientific Sessions would not have been possible.

Michael V McConnell, MD, MSEE and Steffen E Petersen, MD DPhil, MPH
Program Co-Chair Program Co-Chair

Orlando ‘Lon’ Simonetti, PhD
President SCMR

Sven Plein, MD PHD
Chair EACVI Section CMR
<table>
<thead>
<tr>
<th>President</th>
<th>Orlando Simonetti, PhD</th>
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<tr>
<td>Vice President</td>
<td>Victor Ferrari, MD</td>
</tr>
<tr>
<td>Secretary-Treasurer</td>
<td>Jeanette Schulz-Menger, MD</td>
</tr>
<tr>
<td>Vice Secretary-Treasurer</td>
<td>Matthias G. Friedrich, MD</td>
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<tr>
<td>Immediate Past President</td>
<td>Albert de Roos, MD, PhD</td>
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<tr>
<th>SCMR BOARD MEMBERS</th>
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<tbody>
<tr>
<td>James Carr, MD</td>
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<tr>
<td>Northwestern University</td>
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<tr>
<td>Pierre Croisille, MD, PhD</td>
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<tr>
<td>University Jean Monnet</td>
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<tr>
<td>Saint-Etienne, France</td>
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<tr>
<td>Frederick Epstein, PhD</td>
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<tr>
<td>University of Virginia</td>
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<tr>
<td>Charlottesville, Virginia, USA</td>
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<tr>
<td>Alison Fletcher, DCRR, PG Dip</td>
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<tr>
<td>Papworth Hospital</td>
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<tr>
<td>Southampton, United Kingdom</td>
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<tr>
<td>Gregory Hundley, MD</td>
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<tr>
<td>Wake Forest School of Medicine</td>
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<tr>
<td>Wake Forest, North Carolina, USA</td>
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<tr>
<td>Sebastian Kozerke, PhD</td>
</tr>
<tr>
<td>Institute for Biomedical Engineering</td>
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<tr>
<td>University and ETH Zurich, Switzerland</td>
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<tr>
<th>EACVI AND EACVI CMR SECTION</th>
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<tbody>
<tr>
<td>Vice President of the EACVI and Chair of the EACVI CMR Section</td>
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<tr>
<td>Sven Plein, FESC</td>
</tr>
<tr>
<td>University of Leeds, Leeds, UK</td>
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<tr>
<td>Vice Chair of the EACVI CMR Section</td>
</tr>
<tr>
<td>Chiara Bucciarelli-Ducci, FESC</td>
</tr>
<tr>
<td>University of Bristol, Bristol Heart Institute, University Hospitals Bristol NHS Trust, Bristol, UK</td>
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<tr>
<th>Ordinary Nucleus Members</th>
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<tbody>
<tr>
<td>Steffen E. Petersen, MD DPhil, MPH</td>
</tr>
<tr>
<td>The London Chest Hospital, Centre for Advanced Cardiovascular Imaging London, UK</td>
</tr>
<tr>
<td>Francisco Alpendurada</td>
</tr>
<tr>
<td>CMR Unit, Royal Brompton Hospital London, UK</td>
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<tr>
<td>Claudia Christina Deluigi</td>
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<tr>
<td>Bern University Hospital</td>
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<tr>
<td>Bern, Switzerland</td>
</tr>
<tr>
<td>Holger Thiele</td>
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<tr>
<td>Universitaires Herzzentrum Lübeck, Universitätssklinikum Schleswig-Holstein (UKSH) - Lübeck, Germany</td>
</tr>
<tr>
<td>Massimo Lombardi</td>
</tr>
<tr>
<td>Policlinico San Donato - Milano Italy</td>
</tr>
<tr>
<td>Herbert Frank</td>
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<tr>
<td>Interne Abteilung, Donau Klinikum, Tullin, Austria</td>
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<tr>
<th>Past Chair of the EACVI CMR Section</th>
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<tbody>
<tr>
<td>Heiko Mahrholdt, FESC</td>
</tr>
<tr>
<td>Robert Bosch Medical Center, Stuttgart, Germany</td>
</tr>
</tbody>
</table>

| Bernhard Gerber  |
| Cliniques Universitaires St. Luc, Universite Catholique De Louvain Woluwe St. Lambert, Belgium  |
| Emanuela Valsangiacomo  |
| University Children’s Hospital, Zurich, Switzerland  |
| Oliver Bruder  |
| Elisabeth-Krankenhaus Essen, Germany  |
| Mark Westwood  |
| The London Chest Hospital London, UK  |
| Manish Motwani  |
| University of Leeds - Leeds, UK  |
COMMITTEE MEMBERS

Matthias Friedrich, MD (Canada)
Montreal Heart Institute

Alison Fletcher, RT (UK)
Papworth Hospital

James Carr, MD (US)
Northwestern University

Gregory Hundley, MD (US)
Wake Forest University Health Sciences

Sebastian Kozerke, PhD (Switzerland)
Institute for Biomedical Engineering
University and ETH Zurich

Edward Martin, MD (US)
Oklahoma Heart Institute

Hakan Arheden, MD, PhD (Sweden)
Lund University Hospital - Lund, Sweden

Patricia Bandettini, MD (US)
Bethesda, MD

Jens Bremerich, MD (Switzerland)
University Hospital - Basel, Switzerland

Oliver Bruder, MD (Germany)
 Elisabeth Hospital Essen - Essen, Germany

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Zurich, Switzerland

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Yonsei University College of Medicine
Seoul, Korea

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UCLA of School of Medicine - Los Angeles, CA

Herbert Frank, MD (Austria)
University of Vienna - Vienna, Austria

Ralph Gentry, RT, F (US)
William Beaumont Hospital - Detroit, MI

Bernard Gerber, MD, PhD (Belgium)
Cliniques St. Luc UCL - Brussels, Belgium

Gilbert Habib (France)
chez La Timone Hospital - Marseille, France

Alexis Jacquier, MD (France)
CHU la Timone/CEMERE M - Marseille, France

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University of Basel Hospital
Malans, Switzerland

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Cleveland Clinic - Cleveland, OH

Gregory Lanza, MD, PhD (US)
Washington University - Saint Louis, MO

Robert Lederman, MD (US)
National Heart, Lung and Blood Institute - Chevy Chase, MD

Daniel Lee, MD (US)
Northwestern University, Feinberg School of Medicine - Chicago, IL

Massimo Lombardi, MD (Italy)
Polyclinic San Donato - Milan, Italy

Pier Giorgio Masci, MD (Italy)
Fondazione Gabriele Monasterio Regione Toscana CNR - Pisa, Italy

Danilo Neglia (Italy)
Fondazione Gabriele Monasterio Regione Toscana CNR - Pisa, Italy

Krishna Nayak, PhD (US)
University of Southern California
Los Angeles, CA

Sonia Nielles-Vallespin, PhD (US)
National Institutes of Health - Bethesda, MD

Karen Or dovas, MD (US)
University of California San Francisco School of Medicine - San Francisco, CA

Sven Plein, MD, PhD, EACVI CMR (UK)
University of Leeds - Leeds, UK

Carlos E. Rochitte, MD (Brazil)
Rua Capote Valente

Arno Roest, MD, PhD (Netherlands)
Leiden University Medical Center
Leiden, Netherlands

Michael Salerno, MD, PhD (US)
University of Virginia Health System
Charlottesville, VA

Tobias Schaeffer, PhD (UK)
Kings College of London - London, UK

Orlando Simonetti, PhD, (US)
The Ohio State University Davis Heart Lunch Research Institute

Matthias Stuber, MD (Switzerland)
Lausanne University - Lausanne, Switzerland

Katherine Wu, MD (US)
Johns Hopkins Medical Institutions
Baltimore, MD

Alistair Young, PhD (New Zealand)
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Auckland, New Zealand

Co-chairs
Michael McConnell, MD, MSEE (US)
Stanford University School of Medicine

Steffen Petersen, MD, DPhil, MPH (UK)
Queen Mary, University of London

Abstract Co-chairs
Subha Raman, MD (US)
The Ohio State University
Columbus, OH

Holger Thiele, MD (Germany)
University of Leipzig. Heart Center Leipzig, Germany

SCMR/EuroCMR 2015
JOINT SCIENTIFIC SESSIONS PROGRAM COMMITTEE

Co-chairs
Michael McConnell, MD, MSEE (US)
Stanford University School of Medicine

Steffen Petersen, MD, DPhil, MPH (UK)
Queen Mary, University of London

www.scmreurocmr2015.org
The Board of Trustees of the Society for Cardiovascular Magnetic Resonance (SCMR) is pleased to announce that the Society’s 2015 Gold Medal Awards will be presented to Christopher M. Kramer, MD, Raymond J. Kim, MD and Robert M. Judd, PhD on February 7, 2015 during the SCMR/EuroCMR Joint Scientific Sessions in Nice, France. The award is presented annually by the SCMR for outstanding achievement in the field of Cardiovascular Magnetic Resonance (CMR) and for exemplary service to the Society. Drs. Kramer, Kim and Judd have excelled in these areas throughout their careers.

Dr. Christopher Kramer, Ruth C. Heede Professor of Cardiology and Professor of Radiology at the University of Virginia Health System, has been a focused, devoted and strong advocate of CMR throughout his entire career. He provided more than a decade of strong leadership to our Society, including serving as its President in 2009-2010. Before that, he served as the Program Chair from 2004-06, and as the Chair for the Task Force on Standardized Protocols, leading the publication of the document that has been incredibly important at setting standards for how clinical CMR is performed around the world. Perhaps his most significant contribution to the SCMR has been his representation of the Society in the cardiology community and other societies. He has been the primary national advocate to have the SCMR take its proper equal place among the 4 major imaging societies (echo, nuclear, CT) in the greater cardiovascular medicine community; this effort included fostering the recognition of CMR within the American College of Cardiology by serving as Chair of the Imaging Council and the CMR Task Force for COCATS, as well as Vice-Chair of the Appropriate Use Criteria Task Force. Dr. Kramer has also been a distinguished leader in the scientific advancement and expansion of the clinical applications of CMR. He made outstanding contributions to a wide range of topics, including post-MI left ventricular remodeling, myocardial viability, quantitative myocardial perfusion and hypertrophic cardiomyopathy. He is currently Co-PI of the HCMR Trial, a multicenter, international, NHLBI-sponsored effort that is expected to increase our understanding of hypertrophic cardiomyopathy, as well as to elevate CMR’s diagnostic and prognostic role. Christopher Kramer has also been at the forefront of training, mentoring a large number of CMR clinician researchers through an NIH/NIBIB Training Grant he has successfully held since 2005. Many of his trainees have gone on to establish highly productive and widely recognized CMR centers of their own. Dr. Kramer has given many years of highly distinguished service.

2014 Awardee
Warren J. Manning, MD

2013 Awardee
Stefan Neubauer, MD

2012 Awardee
Dudley Pennell, MD

2011 Awardees
Charles Higgins, MD
Gerald Pohost, MD

Christopher M. Kramer, MD  Raymond J. Kim, MD  Robert M. Judd, PhD
and extraordinary service to the field of Cardiovascular Magnetic Resonance and to the Society – and will no doubt continue to do so.

Also receiving the SCMR Gold Medal Award in 2015 are Raymond J. Kim, MD, and Robert M. Judd, PhD, Professors of Medicine and Radiology, and Co-Directors of the Cardiac MRI Center at the Duke University Medical Center. While Drs. Kim and Judd are each receiving this highest recognition by the SCMR based on their individual merits, the exceptional scientific achievements that have resulted from their longstanding partnership exemplifies the power of the physician scientist and basic scientist pairing to advance the field of medicine. Together, Judd and Kim led the development and validation of the Late Gadolinium Enhancement (LGE) technique; this landmark contribution had a transformative effect upon the field of CMR as it provided direct, in vivo visualization of myocardial necrosis and fibrosis with a resolution and clarity never seen before. Their body of scientific work surrounding this technique ranges from exquisite validation in animal models to the demonstration of its value in guiding therapy; this includes some of the most important and highly cited publications in the field of medical imaging. Their efforts have resulted in the clinical use of CMR in patients with a range of diseases going beyond myocardial infarction to include many forms of non-ischemic cardiomyopathies. Late Gadolinium Enhancement is viewed by many as the most unique and practically useful of any CMR techniques and its development and validation stands as scientific and clinical translational research of the highest order; based on this work alone, Drs. Kim and Judd are highly deserving of the SCMR Gold Medal Award.

Their positive influence on the field of CMR and the SCMR, however, goes beyond this single important contribution. Dr. Kim has served SCMR in a variety of roles: on the Board of Trustees from 2002-2006, as Membership Committee Chair during the same period, and on the Strategic Planning Committee from 2005-2006. He was a member of the SCMR Scientific Program Committee in 2007 and 2008, and has chaired numerous sessions at the Annual Scientific Sessions. Dr. Kim has also played an important role in the development of SCMR guidelines for training in CMR in 2007, as a key author in the task force on standardization of CMR protocols in 2007 and 2013, and on the committee that focused on post-processing in CMR in 2013. He served on the JCMR editorial board from 2001-2007. He has also served the field through his participation in the development of training guidelines and appropriateness criteria for CMR at the American College of Cardiology. Dr. Kim is a highly successful mentor of trainees and students, many of whom have gone on to establish productive CMR programs around the world. These highly accomplished individuals are part of the legacy created by Dr. Raymond J. Kim.

From his earliest days Dr. Judd has had a profound interest in, and has made his career studying, the application of MRI for the evaluation of cardiac disease. His studies into the mechanisms and kinetics of contrast enhancement of myocardial infarction laid the groundwork for the subsequent clinical investigations and rapid translation of the LGE technique into widespread clinical practice. Dr. Judd’s more recent efforts to develop a web-based image viewing and distribution system have resulted in an important tool not only in the clinical practice of CMR, but also as a means to enable multi-center research collaboration and education. The SCMR has also benefited from Dr. Judd’s participation on the Scientific Program Committee, and as chair and invited lecturer at numerous sessions of the annual meeting. He served on the Editorial Board of the JCMR and was an Assistant Editor from 2004-2007. Dr. Judd has also mentored numerous trainees throughout his career, and has served as an advocate for CMR through his many invited lectures and contributions to the literature. Dr. Robert M. Judd is a scientist of the highest order whose career has been entirely devoted to CMR. His clarity of thought and his warm relationships with others have led to successful collaborations that have had a profound impact on the field of CMR that continues to this day.

The SCMR is honored to recognize these three outstanding individuals for their invaluable contributions to CMR and to the Society. Each has contributed in their own way, but all have made an indelible mark on the field deserving of the highest recognition.
GET THE 2015 SCMR/EuroCMR MEETING APP!

The CMR 2015 meeting app will serve as a useful resource while you are in Nice, France attending the SCMR/EuroCMR Joint Scientific Sessions. The app will contain pertinent information about each educational session, abstract details, an up-to-date schedule of events, exhibitor information, speaker handouts, important conference alerts, and much more!

Use this QR Code to get the app!

THE GOALS OF THE SCMR/EUROCMR JOINT SCIENTIFIC SESSIONS 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 JOINT SCIENTIFIC SESSIONS, PARTICIPANTS SHOULD BE BETTER ABLE TO:

Upon completion of this educational activity, the participant should be better able to:

- Plan, perform and analyze CMR examinations;
- Plan and conduct appropriately designed clinical trials;
- Apply the principles of MR physics relevant to image quality, data reliability and patient safety.

CONTINUING MEDICAL EDUCATION CREDIT INFORMATION

SCIENTIFIC SESSIONS

The event “2015 SCMR/ Euro CMR Joint Scientific Sessions” is accredited by the European Board for Accreditation in Cardiology (EBAC) for 23.7 hours of External CME credits. Each participant should claim only those hours of credit that have actually been spent in the educational activity. EBAC works according to the quality standards of the European Accreditation Council for Continuing Medical Education (EACCME), which is an institution of the European Union of Medical Specialists (UEMS).

EACCME credits are recognized in Europe and North America. EACCME credits can be exchanged for their national equivalent by contacting the respective National CME authority. EACCME credits are recognized by the American Medical Association (AMA) towards the Physician’s Recognition Award (AMA). SCMR will assist its members in applying to the AMA for equivalent AMA PRA Category 1 credit(s)TM.

Participants will be awarded CME credits by EBAC for the attendance at Scientific Sessions from Thursday, February 5, 2015 to Saturday, February 7, 2015.

Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Other Healthcare Professionals who participate in this CME activity may submit their Statements of Attendance to their appropriate accrediting organizations or state boards for consideration of credit. The participant is responsible for determining whether this activity meets the requirements for acceptable continuing education.

TECHNOLOGIST WORKSHOP

This activity has been approved for credit by the American Society of Radiologic Technology (ASRT) for a maximum of 10.75 CE credits.

Each technologist should claim only those hours of credit actually spent in this activity.
GENERAL INFORMATION

ADMISSION
Conference name badges are required for admission to all activities related to the SCMR/EuroCMR Joint Scientific Sessions, including the exhibit hall.

REGISTRATION HOURS
The Registration Desk is located in the Agora 1 Foyer. The Registration Desk will be open and staffed during the following hours:

<table>
<thead>
<tr>
<th>Day</th>
<th>Date</th>
<th>Time</th>
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<tbody>
<tr>
<td>Wednesday</td>
<td>February 4</td>
<td>7:15 AM - 6:30 PM</td>
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<tr>
<td>Thursday</td>
<td>February 5</td>
<td>7:15 AM - 6:30 PM</td>
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<tr>
<td>Friday</td>
<td>February 6</td>
<td>7:15 AM - 6:30 PM</td>
</tr>
<tr>
<td>Saturday</td>
<td>February 7</td>
<td>7:15 AM - 6:00 PM</td>
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DISCLOSURE STATEMENT
It is the policy of the University European Accreditation Council for Continuing Medical Education - Institute of the UEMS to insure balance, independence, objectivity and scientific rigor in all of its sponsored educational activities. All participating speakers and moderators, course directors, and planning committee members are required to disclose to the program audience any financial relationships related to the subject matter of this program. Relationships of spouse/partner with proprietary entities producing healthcare goods or services should be disclosed if they are of a nature that may influence the objectivity of the individual in a position to control the content of the CME activity. Disclosure information is reviewed in advance in order to manage and resolve any possible conflicts of interest. Specific faculty disclosure information for each speaker, course director, and planning committee member will be shared with the audience prior to the speaker’s presentation.

EXHIBITS
Educational and informational exhibits will be available in the Rhodes Area during the Scientific Sessions. Exhibiting company representatives will be available to answer your questions about their products and services. Please visit the exhibits and thank the representatives for their support. The complete list of exhibits can be found on pages 63-65.

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<tr>
<th>Day</th>
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<tr>
<td>Thursday</td>
<td>February 5</td>
<td>4:00 PM - 7:00 PM</td>
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<td>Friday</td>
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<tr>
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<td>February 7</td>
<td>8:00 AM - 4:00 PM</td>
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MOBILE DEVICES
As a courtesy to the speakers and your fellow attendees, please switch your mobile device(s) to silent while attending sessions.

PHOTOGRAPHY
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SPEAKER READY ROOM
The Program Committee is committed to providing attendees cutting edge technology and coordinated presentations at the Scientific Sessions. To be fully prepared for your session, each presenter is requested to visit the Speaker Ready Room at least 24 hours prior to your presentation. The Speaker Ready Room is located in the Hermes Lounge and will be open the following days and times:

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SOCIAL MEDIA
Continue the online conversation this year on Twitter with hashtag #CMRNice. Share your thoughts about the conference and see what everyone is saying!

EVALUATIONS
At the conclusion of the SCMR/EuroCMR Joint Scientific Sessions, you will receive an invitation to complete the meeting survey. Please take the time to complete this survey as it provides very important feedback for future programming. Thank you, in advance, for completing the evaluation…your opinion and feedback matter!

ACKNOWLEDGEMENTS
The Society for Cardiovascular Magnetic Resonance gratefully acknowledges the support of these scientific sessions and SCMR's objectives from our industry supporters:

Siemens Healthcare
GE Healthcare
Heart Imaging Technologies
Philips Healthcare
PRE-CONFERENCE COURSES

Thursday, February 5, 2015

8:00 AM – 2:00 PM  CLINICAL TRIALS WORKSHOP (MUSES AREA - CLIO)
Moderators:  John P. Greenwood, MB.ChB, PhD, MRCP (Leeds University)
            Alex Pitcher, MRCP (Oxford University)

At the conclusion of this workshop, participants will be better able to:
• Appreciate strengths and limitations of evidence derived from CMR clinical trials
• Discuss the different uses of CMR in clinical trials
• Understand concepts of cost-effectiveness analysis related to cardiac imaging

8:00 AM  Welcome
Steffen E. Petersen, MD, DPhil, MPH (Queen Mary, University of London)

8:05 AM  CMR in Clinical Trials: Opportunities and Challenges
Christopher H. Kramer, MD (University of Virginia Health System)

8:25 AM  Established CMR Markers for Clinical Trials - Performance and Impact
Holger Thiele, MD (University of Leipzig, Heart Center)

8:45 AM  The Industry Perspective on CMR Clinical Trials
Claudia Bacher-Stier, MD (Bayer)

9:05 AM  Challenges of a Multi-centre CMR Trial and When to Go Single Centre
Eike Nagel, MD, PhD, FACC, FESC (King's College London)

9:25 AM  Standards for Core Lab Evaluation and When to Use One
Matthias G. Friedrich, MD (Montreal Heart Institute)

9:45 AM  The Randomised Trial Design for Imaging Studies
Colin Berry, MD (University of Glasgow)

10:05 AM – 10:30 AM  REFRESHMENT BREAK

10:30 AM  A Simple Structure for Designing a Clinical Trial (PICOT-D)
Alex Pitcher, MRCP (Oxford University)

10:50 AM  Ensuring Proper Randomisation and Blinding
Tim Clayton, PhD (London School of Hygiene & Tropical Medicine)

11:10 AM  How to Approach Sample Size and Power Calculations and Ways of Dealing with Missing Data
Tim Clayton, PhD (London School of Hygiene & Tropical Medicine)

11:30 AM  Challenges for Large Scale Datasets in CMR: Possible Solutions
Matthias G. Friedrich, MD (Montreal Heart Institute)

11:50 AM  Applying to Use Large Scale CMR Databases and Registries
Filip Zemrak, MD, MRCP (Queen Mary, University of London)

12:00 PM – 12:50 PM  LUNCH (ON OWN)

12:50 PM  Developing New CMR Biomarkers and Surrogate Endpoints
Valentina Puntmann, MD, PhD, MRCP (King’s College London)

1:10 PM  Comparative Effectiveness Research
John P. Greenwood, MB.ChB, PhD, MRCP (Leeds University)

1:30 PM  Interpreting and Using Cost-effectiveness Analysis
Mohammed Y. Khanji, MB BCH, MRCP (Queen Mary, University of London)

1:50 PM  The SCMR Clinical Trials Committee, How It Can Help
John P. Greenwood, MB.ChB, PhD, MRCP (Leeds University)
PRE-CONFERENCE COURSES

8:00 AM – 2:00 PM  CMR FOR PHYSICIANS PRE-CONFERENCE COURSE (ERATO URANIE)

8:00 AM – 10:00 AM  Session 1 – Physics / Basics (Part 1)
Moderator:  Chiara Bucciarelli-Ducci, MD, PhD (Bristol Heart Institute)

At the conclusion of this workshop, participants will be better able to:
• Understand the basic CMR sequences
• Cope with artefacts and know how to perform CMR in patients with pacemakers and other devices
• Use CMR to guide the differential diagnosis based on patients’ clinical presentation

8:00 AM  Basic Physics
Michael Salerno, MD, PhD (University of Virginia Health System)

8:20 AM  Bright Blood and Black Blood Sequences
Anthony H. Aletras, PhD (Lund University Hospital)

8:40 AM  How to Perform High Quality Delayed Enhancement Imaging
Patricia Bandettini, MD (Bethesda, Maryland)

9:00 AM  How to Assess Valvular Disease
Jens Vogel-Claussen, MD (Hannover Medical School)

9:20 AM  How to Deal with Artefacts
Peter Kellman, PhD (National Institutes of Health)

9:40 AM  How to Scan Pacemaker and Devices
Francesco Santini, MD (University Hospital Basel)

10:00 AM – 10:20 AM  REFRESHMENT BREAK

10:20 AM – 12:00 PM  Session 2 – Physics / Basics (Part 2) and Clinical Scenarios (Part 1)
Moderator:  Nadine Kawel-Boehm, MD (University of Basel Hospital)

10:20 AM  How to Measure Regional and Global Function
Lars Grosse-Wortmann, MD (The Hospital for Sick Children)

10:40 AM  Choosing CMR in a Multi Modality Imaging Climate
Bernhard Gerber, MD (Cliniques St. Luc UCL)

11:00 AM  CMR in Acute Chest Pain
Chiara Bucciarelli-Ducci, MD, PhD (Bristol Heart Institute)

11:20 AM  CMR in Patients with Arrhythmia
Dana Peters, PhD (Yale University)

11:40 AM  CMR in Patients with LVH on Echo
Rory O’Hanlon, MD (Centre for Cardiovascular Magnetic Resonance, Blackrock Clinic)

1:05 PM  CMR in Patients with Dilated LV on Echo
Carlos E. Rochitte, MD (Heart Institute – InCor)

1:25 PM  CMR in Patients with Dilated RV on Echo
Yuchi Han, MD (University of Pennsylvania)

1:45 PM  Clinical Quiz of Last 3 Speakers
TBA

12:00 PM – 12:45 PM  LUNCH (ON OWN)

12:45 PM – 2:00 PM  Session 3 – Clinical Scenarios (Part 2) and Clinical Quiz
Moderator:  Kevin Steel, DO (San Antonio Military Medical Center)

12:45 PM  CMR in Patients with LVH on Echo
Rory O’Hanlon, MD (Centre for Cardiovascular Magnetic Resonance, Blackrock Clinic)

1:05 PM  CMR in Patients with Dilated LV on Echo
Carlos E. Rochitte, MD (Heart Institute – InCor)

1:25 PM  CMR in Patients with Dilated RV on Echo
Yuchi Han, MD (University of Pennsylvania)

1:45 PM  Clinical Quiz of Last 3 Speakers
TBA
**PRE-CONFERENCE COURSES**

**8:00 AM – 2:00 PM**
**CONGENITAL/PEDIATRIC PRE-CONFERENCE COURSE (MUSES AREA - THALIE)**

**8:00 AM – 10:05 AM**

**Session 1 – How Do I Do It? Techniques and Logistics for Pediatric Cardiac MRI**

Moderators:  Rajesh Krishnamurthy, MD (Texas Children’s Hospital)  
Andrew M. Taylor, MD (Great Ormond Street Hospital)

At the conclusion of this workshop, participants will be better able to:
- Understand and apply the basic CMR techniques to assess patients with congenital heart disease
- Point out the specific gains of CMR in the different cardiac pathologies in children and patients with different types of congenital heart disease
- Compose a dedicated CMR protocol for the evaluation specific pediatric patients or patients with congenital heart disease

8:00 AM  
**Introduction to the Course**  
Rajesh Krishnamurthy, MD (Texas Children’s Hospital)

8:05 AM  
**Black Blood Imaging**  
Andrew Taylor, MD (Great Ormond Street Hospital)

8:20 AM  
**Navigator 3D SSFP Whole Heart Imaging**  
Sergio Uribe, PhD (Pontificia Universidad Catolica de Chile)

8:35 AM  
**3D Contrast Enhanced MRA**  
Taylor Chung, MD (Children’s Hospital and Research Center)

8:50 AM  
**Tissue Characterisation**  
Lars Grosse-Wortmann, MD (Hospital for Sick Children)

9:05 AM  
**Ventricular Function - Acquisition and Interpretation**  
Margaret Samyn, MD (Medical College of Wisconsin)

9:20 AM  
**Flow Measurements - Pearls and Pitfalls**  
Phillip B.J. Beerbaum, MD, PhD (Children’s Hospital, Hanover Medical University)

9:35 AM  
**Image Young Patients: Settings and Parameters**  
Rajesh Krishnamurthy, MD (Texas Children’s Hospital)

9:50 AM  
**Sequential Segmental Analysis of Congenital Heart Disease**  
Tal Geva, MD (Children’s Hospital Boston)

10:05 AM – 10:20 AM  
**REFRESHMENT BREAK**

10:20 AM – 12:05 PM  
**Session 2 – Why Do I Do It? Congenital Heart Disease**

Moderators:  Emanuela Valsangiacomo, MD (Children’s Hospital Zurich)  
Karen Ordovas, MD (University of California San Francisco School of Medicine)

10:20 AM  
**Shunt Lesions: Simple and Complex**  
Ashwin Prakash, MD (Children’s Hospital Boston and Harvard Medical School)

10:35 AM  
**Pulmonary Circulation: Arteries and Veins**  
Vivek Muthurangu, MD (University College London)

10:50 AM  
**Aorta: Coarctation and Aortic Arch Anomalies**  
Tarique Hussain, MD, PhD (King’s College London)

11:05 AM  
**Tetralogy of Fallot**  
Arno Roest, MD, PhD (Leiden University Medical Center)

11:20 AM  
**Transposition of the Great Arteries: Atrial and Arterial Switch**  
Emanuela Valsangiacomo, MD (Children's Hospital Zurich)

11:35 AM  
**Univentricular Hearts: From Diagnosis to Fontan**  
Mark Fogel, MD, FACC, FAHA, FAAP (Children’s Hospital of Philadelphia)

11:50 AM  
**Univentricular Hearts: After the Fontan**  
William A. Helbing, MD (Erasmus MC - Sophia Children's Hospital)

12:05 PM – 12:45 PM  
**LUNCH (ON OWN)**
PRE-CONFERENCE COURSES

12:45 PM – 2:00 PM Session 3 – Why Do I Do It: Acquired and Inherited Paediatric Heart Disease
Moderators: Arno Roest, MD, PhD (Leiden University Medical Center)
Lars Grosse-Wortmann, MD (The Hospital for Sick Children)

12:45 PM Cardiac Tumors: Characterisation with CMR
Tiffanie R. Johnson, MD (Riley Hospital for Children)

1:00 PM Cardiomyopathies: ARVC, DCM, HCM
Lars Grosse-Wortmann, MD (Hospital for Sick Children)

1:15 PM Vascular Disease: Kawasaki and Others
Gerald F. Greil, MD, PhD (King's College)

1:30 PM Discussion and Closing Remarks
All Speakers

8:00 AM – 2:00 PM INTERVENTIONAL CMR WORKSHOP (MUSES AREA - EUTERPE)

8:00 AM – 9:45 AM Session 1 – Technology for Interventional cmRI
Moderators: Tobias Schaeffter, PhD (Kings College London)
Daniel Herzka, PhD (Johns Hopkins University)

At the conclusion of this workshop, participants will be better able to:
- Understand how to configure and install a clinical suite for iCMR in patients
- Understand common acquisition and reconstruction for MRI catheterization
- Understand some of the technical and safety constraints on clinical MRI catheter devices

8:00 AM Welcome & Overview

8:15 AM Real-time MRI
Tobias Schaeffter, PhD (St Thomas' Hospital)

8:30 AM Data Processing and Visualization
Rashed Karim, PhD (King's College London)

8:45 AM MR Catheters System
Ozgur Kocaturk, PhD (Bogazici University)

9:00 AM MR Compatible Robotics and Force Sensing
Tobias Schaeffter, PhD (St Thomas’ Hospital)

9:15 AM Regulatory Approval of New Devices
Steve Wedan, MS (Imricor Medical Systems)

9:30 AM Discussion of Technological Challenges
Robert J. Lederman, MD (National Heart, Lung and Blood Institute)

9:45 AM – 10:15 AM REFRESHMENT BREAK

10:15 AM – 12:00 PM Session 2 – MR-guided Cardiac Electrophysiology Procedures
Moderators: Graham A. Wright, PhD (Sunnybrook Research Institute, University of Toronto)
Eugene Kholmovski, PhD (UCAIR University of Utah)

10:15 AM Imaging of the Arrhythmic Substrate
Daniel Herzka, PhD (Johns Hopkins University)

10:30 AM MR-guided Treatment of the Arrhythmic Substrate 1
Philipp Sommer, MD (Heart Center Leipzig)

10:45 AM MR-guided Treatment of the Arrhythmic Substrate 2
Christopher Piorkowski, MD (University of Dresden)

11:00 AM MRI Assessment of the Treated Substrate
Eugene Kholmovski, PhD (University of Utah)

11:15 AM New Kids on the Block (short presentations (5min) from new sites entering MR-guided EP)
TBA
PRE-CONFERENCE COURSES

11:45 AM Industry (Short presentations) - 5 min each
TBA

12:00 P – 12:30 PM LUNCH (ON OWN)

12:30 PM – 2:00 PM Session 3 – MR-guided Vascular Interventions
Moderators: Vivek Muthurangu, MD (University College London)
Ian Rogers, MD (Stanford University)

12:30 PM MR-guided Pediatric Interventions
Kanishka Ratnayaka, MD (National Institutes of Health)

12:45 PM Aortic Coarctation Interventions in Patients
Peter Ewert, MD (German Heart Center Munich)

1:00 PM MR-guided Cardiac Biopsies
Dirk Lossnitzer, MD (University of Heidelberg)

1:15 PM New Kids on the Block (short presentations (5min) from new sites entering MR-guided EP)

1:45 PM Industry (Short presentations) - 5 min each

2:00 PM Close

JOINT SCIENTIFIC SESSIONS

Thursday, February 5, 2015

2:30 PM – 4:15 PM OPENING PLENARY – CMR’s Global Impact on Cardiovascular Health: What Have We Achieved and What are the Game Changers? (APOLLON)
Moderators: Michael V. McConnell, MD, MSEE (Stanford University School Of Medicine)
Steffen E. Petersen, MD, DPhil, MPH (Queen Mary, University of London)

At the conclusion of this session, participants will be better able to:
• Appreciate the evidence supporting the use of CMR in clinical patient management
• Discuss the role of CMR in non-ischaemic and ischaemic heart disease
• Appreciate the role of CMR in congenital heart disease

2:30 PM Opening / Welcome
Sven Plein, MD, PhD (University of Leeds)
Orlando P. Simonetti, PhD (The Ohio State University)

2:40 PM Keynote Address: Global Cardiovascular Health and What CV Imaging Can Contribute
Valentin Fuster, MD, PhD (Mount Sinai Medical Center)

3:10 PM CMR Redefines the Diagnosis and Therapy of Non-Ischemic Cardiomyopathy
Dudley J. Pennell, MD, FRCP, FACC, FESC (Royal Brompton Hospital)

3:25 PM CMR is the Standard of Care for Congenital Heart Disease
Mark A. Fogel, MD, FACC, FAHA, FAAP (Children’s Hospital of Philadelphia)

3:40 PM CMR Provides the Most Comprehensive Assessment of Ischemic Heart Disease in Women and Men
Chiara Bucciarelli-Ducci, MD, PhD (Bristol Heart Institute)

3:55 PM Audience Response Session

4:30 PM – 5:50 PM INVITED SESSION 1: Cardiomyopathy Assessment by T1/T2 Mapping in Clinical Practice (APOLLON)
Moderators: Andrew E. Arai, MD (National Institutes of Health)
James Moon, MD (The Heart Hospital)

At the conclusion of this session, participants will be better able to:
• Learner Objective 1
• Learner Objective 2
• Learner Objective 3
JOINT SCIENTIFIC SESSIONS

4:30 PM  The Additive Value of T1-mapping in Differentiating the Hypertrophic Phenotype in Cardiomyopathy
          Mariana Fontana, MD (The Heart Hospital)

4:46 PM  T2 Mapping vs. T2-weighted Imaging in Myocardial Inflammation and Ischemia
          Subha V. Raman, MD, MSEE (The Ohio State University)

5:02 PM  Is There an Additive Value of Mapping Technique in Ischemic Cardiomyopathy?
          Erica Dall’Armellina, MD, DPhil (Oxford University)

5:18 PM  Inherited Cardiomyopathy: The Potential of Quantitative Imaging for Early Diagnosis and Risk Stratification
          Andrew E. Arai, MD (NHLBI - National Institutes of Health)

5:34 PM  What Constitutes a Good Biomarker and Can Native T1 or ECV Fit the Bill?
          Matthias G. Friedrich, MD (Montreal Heart Institute)

4:30 PM – 5:50 PM  CASE REVIEW 1: Cardiac Masses: Correlating Imaging with Pathology (HERMES AUDITORIUM)
                      Moderators: Dipan J. Shah, MD (Methodist DeBakey Heart & Vascular Center)
                      Raad H. Mohiaddin, MD, PhD, FESC, MRCP, FRC (Royal Brompton Hospital and Harfield NHS Trust)

4:30 PM - CR 01  A Woman With Recurrent Pericardial Effusion
                 Ana Barac, MD, PhD (Medstar Heart Institute, Medstar Washington Hospital Center)

4:40 PM - CR 02  Cardiac Magnetic Resonance: Intramyocardial Cavernous Hemangioma
                 Pablo Kociubinski, MD (CIMED, Hospital “El Cruce”)

4:50 PM - CR 03  A Large Mass Abutting on the Left Ventricle in an Elderly
                 Winnie Chan (Queen Elizabeth Hospital)

4:50 PM - CR 04  Primary Cardiac Paraganglioma Treated by a Conservative Approach
                 Simone Cristina Costa (UFMG Universidade Federal de Minas Gerais, Hospital Felicio Rocho)

4:50 PM - CR 05  Systemic Disease Presenting as an Obstructive Cardiac Mass; Connecting the Dots
                 Luba Frank, MD (University of Michigan)

5:20 PM - CR 06  An Unusual Case of Dyspnea on Exertion
                 Jorge Gonzalez, MD (University of Virginia)

5:30 PM - CR 07  A Rare Case of Hydatid Cyst in the Heart, Diagnosed on Magnetic Resonance Imaging (MRI)
                 Fateh Ali Sultan, MBBS, FCPS (Aga Khan University Hospital)

5:40 PM - CR 08  Right Ventricular Intramyocardial Haematoma After Percutaneous Coronary Intervention
                 Milan Satendra, MD (Hospital Santa Maria)

4:30 PM – 5:50 PM  ORAL ABSTRACT SESSION 1 (MUSES AREA - CLIO THALIE)
                      Moderators:  Frank Kober, PhD (Aix-Marseille University)
                      Frederick H. Epstein, PhD (University of Virginia)

4:35 PM - O1  Heterogeneity of Diffusion Tensor Imaging Measurements of Fractional Anisotropy and Mean Diffusivity in Normal Human Hearts In Vivo
               Laura-Ann McGill, MBChB, BSc (Imperial College London)

4:47 PM - O2  High-Resolution Multi-breath-held 3D volumetric T1 Mapping Acquisition: Analysis of T1 Measurement Reproducibility Compared to 2D T1 Mapping with a Respiratory Motion Phantom
               Keigo Kawaji, PhD (The University of Chicago)

5:00 PM - O3  Differential Response of the Left and Right Ventricles to Pressure Overload Revealed with Diffusion Tensor MRI Tractography of the Heart In Vivo
               Choukri Mekkaoui (Harvard Medical School)

5:12 PM - O4  Disturbed Diastolic Left Ventricular Inflow Vortex Ring Formation in Patients with Corrected Atrioventricular Septal Defect: Quantitative Three-Dimensional Vortex Core Analysis From 4D Flow MRI
               Emmeline Calkoen, MD (Leiden University Medical Center)

5:24 PM - O5  Relationship of Prolonged Global and Regional Central Circulatory Transit Time with Hemodynamics
               Jennifer Conroy, MD (St. Francis Hospital)
**Elevated Energy Loss in Diastolic Left Ventricular Inflow Corresponds to an Increase in Kinetic Energy in Patients with a Repaired Atrioventricular Septal Defect: Quantification From 4D Flow MRI**
Mohammed S. M. ElBaz (Leiden University Medical Center)

**Effect of Purified Omega-3 Fatty Acids on Reducing Left Ventricular Remodeling After Acute Myocardial Infarction (OMEGA-REMODEL Study): A Double-Blind Randomized Clinical Trial**
Bobby Heydari (Brigham and Women's Hospital)

**Quantification of Myocardial Late Gadolinium Enhancement Using Synthetic Inversion Recovery Imaging**
Akos Varga-Szemes, MD, PhD (Medical University of South Carolina)

**Infarct Burden Following Multivessel PCI vs Infarct-Only PCI in Patients with Acute STEMI: The Glasgow PRAIMI CMR Sub-Study**
Kenneth Mangion (University of Glasgow)

**Myocardial Perfusion is Impaired in Renal Transplant and Liver Transplant Patients**
Joseph Selvanayagam, MD (Flinders University)

**Predictive Value of Segmental Extent of Late Gadolinium Enhancement and Peak Circumferential Systolic Strain in Predicting Improvement and Normalisation of Dysfunctional Segments Post STEMI**
Jamal Khan, MRCP, MBC, BMedSci (University of Leicester)

**Real-time Cine First-pass Perfusion Imaging Enables Rapid Detection of Functionally Significant High-grade Coronary Stenosis**
Behzad Sharif, PhD (Cedars-Sinai Medical Center)

**Session 1: CAD – Coronary Artery Disease**
Moderator: Karen Ordovas, MD (University of California San Francisco School of Medicine)

At the conclusion of this session, participants will be better able to:
- Describe the pathophysiology of coronary atherosclerotic disease and how it relates to the development of a myocardial infarction
- List the most common causes and clinical symptoms of heart failure
- Describe the pathophysiology of aortic valve stenosis and the most common clinical presentation

**The Essentials of Stable Coronary Artery Disease – Pathophysiology, Diagnosis, Treatment**
Peter Buser, MD (University Hospital Basel)

**Acute Coronary Artery Disease – Myocardial Infarction – Pathophysiology, Treatment, Consequences**
Oliver Bruder, MD (Elisabeth Hospital Essen)

**CAD Cases**
Gautham P. Reddy, MD, MPH (University of Washington Medical Center)

**Physics for Physicians 1**
Moderator: Sebastian Kozerke, PhD (Institute for Biomedical Engineering University and ETH Zurich)

At the conclusion of this session, participants will be better able to:
- Understand the basic principles of signal generation, reception and decay in MRI
• Describe the basic image formation process and interrelations between the various parameters including the sources of potential image artifacts
• Evaluate the potential value of advanced motion correction, accelerated imaging and optimization concepts for their research and routine work

7:30 AM  
CMR Scanner Hardware – Tesla, Faraday and Bloch
Michael Schär, PhD (Johns Hopkins University)

7:50 AM  
CMR Pulse Sequence – Echoes, K-space and Fourier
Sonia Nielles-Vallespin, PhD (National Institutes of Health)

8:10 AM  
CMR Images - Signal, Noise, Contrast and Artifacts
Tobias Schaeffter, PhD (St Thomas’ Hospital)

**JOINT SCIENTIFIC SESSIONS**

7:30 AM – 8:30 AM  
**CASE REVIEW 2: The Patient is Referred for Work-up of Arrhythmia** (HERMES AUDITORIUM)

Moderators: Francisco Alpendurada, MD (Royal Brompton Hospital)  
Pierre Croiselle, MD, PhD (Université J. Monnet)

7:30 AM - CR 09  
The Patient Presents with Complete Heart Block...  
Jeannie Yu, MD (National Institutes of Health)

7:40 AM - CR 10  
An Usual Cause of Epicardial Late Gadolinium Enhancement...  
Jonathan Rodrigues, BSc(Hons), MBChB(Hons), MRCP, FRCR (Bristol Heart Institute)

7:50 AM - CR 11  
Sudden Cardiac Arrest at Rest in an Asymptomatic Adolescent in School  
Cynthia Amirtharaj, MBBS (Cohen Children’s Hospital)

8:00 AM - CR 12  
An Uncommon but Important Finding in a Patient Presenting with Ventricular Tachycardia.  
Anish Bhuva, MBBS (The Heart Hospital)

8:10 AM - CR 13  
MRI as First Diagnostic Tool in a Case of Atrioventricular Block  
Christina Unterberg-Buchwald (University Clinic Goettingen, UMG)

8:20 AM - CR 14  
47 Year Old Male Presenting to the Emergency Department with His Second Episode of Unstable Ventricular Tachycardia in Four Years: Is There a Role for CMR Based Tissue Characterization Techniques?  
Andrew Choi, MD (National Heart, Lung, and Blood Institute)

8:40 AM – 10:00 AM  
**INVITED SESSION 2: The RV Under Stress: CMR of the Pressure/Volume Overloaded RV** (APOLLON)

Moderators: Emanuela Valsangiocomo, MD (Children’s Hospital Zurich)  
Rajesh Krishnamurthy, MD (Texas Children’s Hospital)

At the conclusion of this session, participants will be better able to:

• Understand the abnormalities of the left and right ventricle in congenital and pediatric heart disease and how CMR can be applied
• Apply advanced CMR techniques to assess the left en right ventricle in pediatric and congenital heart disease
• Understand how CMR can be used in clinical decision-making involving left and right ventricular abnormalities in congenital heart disease

8:40 AM  
The RV Under Pressure – CMR of the Patient with Pulmonary Hypertension  
Shahin Moledina, MD (Great Ormand Street Hospital)

8:56 AM  
The RV Under Pressure – Is the Single RV Different from the Single LV?  
Rajesh Krishnamurthy, MD (Texas Children’s Hospital)

9:12 AM  
The Overloaded RV – CMR of the Patient After Tetralogy of Fallot Repair  
Philipp Beerbaum, PhD (Hanover Medical University)

9:28 AM  
The Overloaded RV – CMR of the Patient with Ebstein Anomaly  
Sohrab Fratz, MD, PhD, FESC (German Heart Centre Munich)

9:44 AM  
Can We Help the RV? Role Of CMR in the Planning of PVR  
Claudio Capelli, PhD (University College London)
JOINT SCIENTIFIC SESSIONS

8:40 AM – 10:00 AM  CASE REVIEW 3: The Patient is Referred for Assessment of Ischemia and Viability (HERMES AUDITORIUM)
Moderators: Juerg Schwitter, MD, FESC (University Hospital Lausanne – CHUV)
Amit R. Patel, MD (University of Chicago)

8:40 AM - CR 15  Decoding Chest Pain in a Patient with Cardiac Sarcoidosis
Niti Aggarwal, MD (Mayo Clinic)

8:50 AM - CR 16  New Onset Right Bundle Branch Block (RBBB) and Junctional Rhythm on the EKG in a Patient with Giant Coronary Aneurysms Due to Kawasaki Disease
Geetha Challapudi, MBBS (North Shore LIJ health system)

9:00 AM - CR 17  An Unexpected Cause of Recurrent Chest Pain Diagnosed by Cardiac Magnetic Resonance
Diego Eifer, MD (Hospital de Clinicas de Porto Alegre)

9:10 AM - CR 18  A Rare Cause of ST Segment Elevation in Leads V1-V3; Cardiac Magnetic Resonance at the Diagnostic Crux
Ryan Van Woerkom, MD (Mayo Clinic Arizona)

9:20 AM - CR 19  PC VIPR Cardiac MRI of an Unusual Complication of Late Presenting Inferior Myocardial Infarction
Joanna Kusmirek, MD (University of Wisconsin)

9:30 AM - CR 20  Utility of T1-Mapping to Determine Viability Following Sub-Acute Myocardial Infarction
Sheraz Nazir, BSc, MB BChir, MRCP (University of Leicester)

9:40 AM - CR 21  Combined Non-Contrast Myocardial Viability and Edema Imaging with Diffusion Weighted Sequence for Acute Coronary Syndrome: A Case Report
David Chen, BS (Cedars Sinai Hospital)

9:50 AM - CR 22  Use of CMR to Clear The Picture: Anatomy, Viability and Ischaemia
Anvesha Singh, MBChB (University of Leicester)

8:40 AM – 10:00 AM  ORAL ABSTRACT SESSION 3 (MUSES AREA - CLIO/THALIE)
Moderators: David E. Sosnovik, MD (Harvard Medical School)
Gerald M. Pohost, MD (University of Southern California)

8:45 AM - O13  Localized Chronic Iron Deposition within Non-Reperfused Myocardial Infarctions
Avinash Kali, MS (Cedars-Sinai Medical Center)

8:57 AM - O14  Black Blood Late Gadolinium Enhancement Using Combined T2 Magnetization Preparation and Inversion Recovery
Tamer Basha, PhD (BIDMC, Harvard Medical School)

9:09 AM - O15  Real Time Measurement of Myocardial Substrate Selection in Vivo Using Hyperpolarized 13C Magnetic Resonance
Jessica Bastiaansen, PhD (University Hospital)

9:21 AM - O16  Hyperpolarized 13C and 31P Magnetic Resonance Spectroscopy Identify Pyruvate Dehydrogenase as a Therapeutic Target in Obesity Cardiomyopathy
Andrew Lewis (University of Oxford)

Yibin Xie (Cedars-Sinai Medical Center)

9:45 AM - O18  Phantom Validation of 4D Flow: Independent Validation of Flow Velocity Quantification Using Particle Imaging Velocimetry
Johannes Töger (Lund University)

8:40 AM – 10:00 AM  ORAL ABSTRACT SESSION 4 (MUSES AREA - ERATE/URANIE)
Moderators: Matthias Koopman, MD (Universitätsklinikum Münster)
Michael Guttman (Johns Hopkins University)

8:45 AM - O19  Percutaneous MR Guided Direct Left Atrial Access to Deliver Large Interventional Devices
Toby Rogers, Cardiology Fellow (National Institutes of Health)

8:57 AM - O20  MR Guided Right Heart Catheterization – The NIH Experience
Toby Rogers, Cardiology Fellow (National Institutes of Health)
JOINT SCIENTIFIC SESSIONS

9:09 AM - O21  Malignant Ventricular Arrhythmias in Patients with Chronic Myocardial Infarction and Predictive Value Of Iron-Sensitive Cardiac Magnetic Resonance Imaging
Ivan Cokic, MD (Cedars-Sinai Medical Center)

9:21 AM - O22  Atrial Late Gadolinium Enhancement on MRI Relates to the Electrophysiological Substrate of Persistent Atrial Fibrillation
Stephanie Clement-Guinaudeau (Hôpital Cardiologique Haut-Lévêque)

9:33 AM - O23  Transcatheter Bidirectional Glenn Shunt Guided by Real-Time MRI
 Kanishkam Ratnayaka (National Institutes of Health)

9:45 AM - O24  Respiratory Motion Model Based Correction for Improving the Targeting Accuracy of MRI-Guided Intracardiac Electrophysiology Procedures
Robert Xu (University of Toronto)

10:00 AM – 10:30 AM  REFRESHMENT BREAK/EXHIBITS/POSTERS (RHODES AREA)
Exhibit Hall is open from 8:00 am - 7:00 pm; Exhibits staffed from 10:00 am - 4:30 pm

10:40 AM 12:00 PM CONCURRENT SESSIONS

INVITED SESSION 3: Interventional CMR (APOLLON)
Moderators: Robert J. Lederman, MD (National Heart, Lung and Blood Institute)
            Reza Razavi, MD (King’s College of London)

At the conclusion of this session, participants will be better able to:
• Understand typical acquisition and reconstruction techniques and safety considerations for MRI catheterization
• Appreciate applications of real-time MRI in electrophysiologic catheter treatments
• Recognize suitable applications of diagnostic and interventional MRI catheterization in adult heart failure and congenital heart disease

10:40 AM  Clinical MR-guided Interventions
Vivek Muthurangu, MD (University College London)

10:56 AM  New MR-acquisitions
Anthony Faranesh, PhD (National Heart, Lung and Blood Institute)

11:12 AM  Safety and Regulatory Approval of New Devices
Steve Wedan, MS (Imricor Medical Systems)

11:28 AM  Paving the Way Towards MR-guided Dilatation and Stenting of Coarctation
Peter Ewert, MD (German Heart Center Munich)

11:44 AM  MR-guided Interventions
Mirja Neizel-Wittke, MD (University Hospital Düsseldorf)

10:40 AM 12:00 PM CONCURRENT SESSION

INVITED SESSION 4: CMR of Heart Transplant Complications (MUSES AREA - ERATE/URANIE)
Moderators: Carmen Chan, PhD (Queen Mary Hospital)
            Massimo Lombardi, MD (Polyclinic San Donato)

At the conclusion of this session, participants will be better able to:
• Learning Objective
• Learning Objective
• Learning Objective

10:40 AM  Cardiac Transplant Disease Overview
James Carr, MD (Northwestern University)

10:54 AM  T1 and T2 Assessment in Cardiac Transplant Rejection
Pierre-Yves Marie, MD (Centre Hospitalier Universitaire de Nancy)

11:08 AM  Phosphorus Spectroscopy in Transplant Rejection
Monique Bernard, PhD (CEMEREM)

11:22 AM  Perfusion Quantification Using CMR to Assess Transplant Vasculopathy
Chris Miller, MBChB (University Hospital of South Manchester)
**JOINT SCIENTIFIC SESSIONS**

**11:36 AM**  
Coronary Wall Imaging in Transplant Vasculopathy  
Rene M. Botnar, PhD (King’s College London/St. Thomas Hospital)

**11:50 AM**  
Panel Discussion

**10:40 AM 12:00 PM**  
CASE REVIEW 4: CMR In Congenital and Pediatric Patients I  
(HERMES AUDITORIUM)  
Moderators: Shelby Kutty, MD (University of Nebraska)  
Gautham P. Reddy, MD, MPH (University of Washington Medical Center)

**10:40 AM - CR 23**  
Congenital Absence of Marshall’s Ligament due to a Persistent Left Superior Vena Cava as Cause of Traumatic Aortic Arch Aneurysm  
Lilia Sierra-Galan, MD, FACC, FSCCT (American British Cowdray Medical Center)

**10:50 AM - CR 24**  
An Unusual Cause of Dilated Left Ventricle: Role of Comprehensive Cardiac Magnetic Resonance Imaging  
Xiao Zhou (Piedmont Heart Institute)

**11:00 AM - CR 25**  
Multimodality Imaging for the Diagnostic Evaluation of Endomyocardial Fibrosis  
Bram Ruijsink (St Thomas Hospital)

**11:10 AM - CR 26**  
Inadvertent Complication of Senning Procedure  
Sherif Moustafa (Mayo Clinic Arizona)

**11:20 AM - CR 27**  
Cardiomegaly Discovered on a Chest X-Ray in a 16 Year Old Male with Two Weeks of Cough  
Jason Johnson, MD, MHS (University of Tennessee)

**11:30 AM - CR 28**  
Anomalous Right Coronary Artery from Pulmonary Artery (ARCAPA) with Coronary Steal Demonstrated by Adenosine-Perfusion CMR  
Prakash Muthusami (The Hospital for Sick Children)

**11:40 AM - CR 29**  
Double Aortic Arch with Coarctation of the Dominant Right Aortic Arch  
Nadine Choueiter, MD (Albert Einstein College of Medicine)

**11:50 AM - CR 30**  
Extremely Rare Giant Coronary Sinus Aneurysm and Multiple Coronary Artery Aneurysms in a Pediatric Patient  
Dilachew Adebo, MD (Driscoll Children’s Hospital)

**10:40 AM 12:00 PM**  
ORAL ABSTRACT SESSION 5  
(MUSES AREA - CLIO/THALIE)  
Moderators: Eike Nagel, MD, PhD, FACC, FESC (King’s College London)  
Nathanial Reichek, MD (St. Francis Hospital)

**10:45 AM - O26**  
Prognostic Significance of Infarct Core Pathology in ST-Elevation Myocardial Infarction Survivors Revealed by Non-Contrast T1 Mapping Cardiac Magnetic Resonance  
David Carrick, BScMedSci, MBChB, MRCP (University of Glasgow)

**10:57 AM - O27**  
LGE-PSIR is an Independent Predictor of Mortality in Cardiac Amyloidosis: A 250 Patient Prospective Study  
Marianna Fontana (The Heart Hospital)

**11:09 AM - O28**  
Severe Aortic Stenosis has Blunted Myocardial T1 Relaxation Response to Vasodilator Stress: A Cardiac Magnetic Resonance Adenosine Stress Test Study  
Masliza Mahmood, MBChB, MMED, DPhil (Oxford Centre for Clinical Magnetic Resonance Research)

**11:21 AM - O29**  
Stress CMR as a Gatekeeper to Complete Revascularisation in STEMI Patients with Moderate-Severe Bystander Disease at Primary Percutaneous Coronary Intervention  
Amardeep Ghosh Dastidar, MBBS, MRCP (Bristol Heart Institute)

**11:33 AM - O30**  
Cardiac MRI vs. Myocardial 18F-FDG PET/CT in patients with Clinical Concern for Cardiac Sarcoïd  
Nam Ju Lee, MD (Perelman School of Medicine of the University of Pennsylvania)

**10:40 AM - 12:00 PM**  
WALKING POSTER SESSION (Congenital)  
(AGORA 2)

**12:00 PM – 12:30 PM**  
SCMR Business Meeting

**12:00 PM – 12:30 PM**  
EACVI Section CMR Business Meeting

**12:30 PM – 1:30 PM**  
LUNCH / EXHIBITS / POSTERS / MODERATED ORAL POSTER COMPETITION SESSION 1  
(RHODES AREA)  
Moderators: Nicole Seiberlich, PhD (Case Western Reserve University)  
Ingo Eitel, MD (University Leipzig)
JOINT SCIENTIFIC SESSIONS

Judges: Brent A. French, PhD (University of Virginia)
        TBD
        TBD

M 01 Inter Breath-hold Reproducibility of Temporal Patterns of Coronary Artery Blood Flow
Jennifer Keegan, PhD (Royal Brompton Hospital)

M 02 MRI Assessment of Aortic Flow and Pulse Wave Velocity in Response to Exercise
Jacob Macdonald, BSc (University Of Wisconsin)

M 03 Assessment of Left Atrial and Left Atrial Appendage Flow and Stasis an Atrial Fibrillation
Michael Markl, PhD (Northwestern University)

M 04 Regional Assessment of Myocardial Regeneration Therapies in Rats Using Magnetic
Resonance Tagging
Laurence Jackson, BSc (University College London)

M 05 Ischemic Postconditioning Diminishes Intramyocardial Hemorrhage in Acute
Reperfused Myocardial Infarction in Rats, Evaluated by CMR at 7T
Bing Zhang (Sichuan University)

M 06 Maps; Acute Safety Data of the St Jude Accent - Tendril Ipg System During Prolonged
Max Power CMR Scanning
Mark Ainslie, MBChB (University Hospital South Manchester)

1:30 PM – 2:00 PM  CMR TECHNOLOGY UPDATE  (APOLLON)

2:10 PM – 3:30 PM  INVITED SESSION 5: Updates in Vascular Imaging  (APOLLON)
Moderators:  Karen Ordovas, MD (University of California San Francisco School of Medicine)
            Jens Bremerich, MD (University Hospital)

At the conclusion of this session, participants will be better able to:
• Oversee state-of-the-art angiographic techniques and new developments
• Understand strengths and limitations of different angiographic techniques
• Identify the best diagnostic strategy for a specific clinical situation

2:10 PM  Update on MR Angiography
Stephen J. Riederer, PhD (Mayo Clinic)

2:23 PM  Wall Structure and Shear Stress of Ascending Aorta
James Carr, MD (Northwestern University)

2:36 PM  Hemodynamic Assessment of Coarctation
Karen Ordovas, MD (University of California, San Francisco School of Medicine)

2:49 PM  Imaging the Pulmonary Circulation
Jens Bremerich, MD (University Hospital)

3:02 PM  Arterial Stiffness and Vascular Age
Joao A.C. Lima, MD (Johns Hopkins University)

3:15 PM  Carotid Plaque Characterisation and Stroke Risk
Chun Yuan, PhD (University of Washington)

2:10 PM – 3:30 PM  CASE REVIEW 5: The Patient is Referred for Assessment of Cardiac Chamber Size,
Function, and Morphology  (HERMES AUDITORIUM)
Moderators:  Sujata Shanbhag, MD (NIH/NHLBI Laboratory of Cardiac Energetics)
            Albert de Roos, MD, PhD (Leiden University Medical Center)

2:10 PM - CR 31  Not All Asymmetric Septal Hypertrophy is Hypertrophic Cardiomyopathy
Timothy Wong, MD, MS (University of Pittsburgh Medical Center)

2:20 PM - CR32  Unusual Hypertrophy in Aortic Stenosis Prior to Valve Replacement
Thomas Treibel, MBBS (University College London)

2:30 PM - CR 33  Nitrous Oxide (N2O) Abuse Induced Diffuse Myocarditis
Sumit Gupta, MRCP(UK), FRCP, PhD (University of Leicester)
2:40 PM - CR 34  Reversible Perfusion Defects in Severe Asymmetric Hypertrophic Cardiomyopathy
Alexander Ivanov, MD (New York Methodist Hospital)

2:50 PM - CR 35  Cardiac Magnetic Resonance in Churg-Strauss Syndrome (CSS): From Diagnosis to Therapy Monitoring
Nauman Ahmed, MBBS, MRCP (Bristol Heart Institute)

3:00 PM - CR 36  Cardiac Amyloidosis: Different Patterns of Late Gadolinium Enhancement
Sumit Gupta, MRCP(UK), FRCR, PhD (University of Leicester)

3:10 PM - CR 37  A Case of Cardiac Arrest and Pericardial Tamponade: The Role of Cardiac Magnetic Resonance in the Differential Diagnosis
Silvia Pica (IRCCS San Matteo Hospital)

2:10 PM – 3:30 PM  ORAL ABSTRACT SESSION 6  (MUSES AREA - CLIO/THALIE)
Moderators:  Raymond Kwong, MD, MPH (Brigham and Women’s Hospital)
Stefan Neubauer, MD (John Radcliffe Hospital)

2:15 PM - O31  The Prognostic Value of Cardiovascular Magnetic Resonance in Aborted Sudden Cardiac Death
Peter Swoboda (University of Leeds)

2:27 PM - O32  Native T1 Myocardial Tissue Characterisation in Patients with Pulmonary Hypertension: Findings from International T1 Multicentre Study
Andrew Swift, PhD (University of Sheffield)

2:39 PM - O33  Prevalence and Prognostic Significance of Right Ventricular Systolic Dysfunction in Heart Failure with Preserved Ejection Fraction. Insights from a Cardiac Magnetic Resonance Imaging Study
Stefan Aschauer (Medical University of Vienna)

2:51 PM - O34  Left Ventricular Global Function Index Assessed by Cardiac Magnetic Resonance Imaging for the Prediction of Cardiovascular Events in ST-Elevation Myocardial Infarction
Ingo Eitel, MD (Heart Center Lübeck)

3:03 PM - O35  Prognostic Significance of The Extent of Septal Fibrosis Quantified on Late Gadolium Enhanced Images in Patients with Nonischemic Cardiomyopathy
Aidan Cornhill (Stephenson Cardiac Imaging Centre)

3:15 PM - O36  Appropriate Use Criteria and the Impact of Stress Cardiovascular Magnetic Resonance (CMR) Imaging on Management of Patients with Known or Suspected Coronary Artery Disease
Sloane McGraw, DO (University of Illinois-Chicago)

2:10 PM – 3:30 PM  ORAL ABSTRACT SESSION 7  (MUSES AREA - ERATE/URANIE)
Moderators:  Henrik Engblom, MD, PhD (Lund University)
Jeanette Schulz-Menger, MD, FESC (Charite Universitatsmedizin)

2:15 PM - O37  Beat to Beat Volumetric Analysis in Arrhythmia Using Real Time CMR
Francisco Contijoch (University of Pennsylvania)

2:27 PM - O38  Improving the Accuracy of Cardiac DTI by Averaging the Complex Data
Andrew Scott (The Royal Brompton Hospital)

2:39 PM - O39  High-Resolution T1 Mapping With ANGIE Detects Increased Right-Ventricular Extracellular Volume Fraction In Patients With Pulmonary Arterial Hypertension
Bhairav Mehta, MS (University of Virginia)

2:51 PM - O40  Prospectively Accelerated First-Pass Myocardial Perfusion Imaging in Patients Using Motion-Compensated Compressed Sensing Exploiting Regional Low-Rank Sparsity
Xiao Chen (University of Virginia)

3:03 PM - O41  Hybrid PET/MR Metabolic Imaging of the Reperfused Infarct – New Biology, Future Directions
Steven White, BSc, MBChB (The Hatter Cardiovascular Institute)

3:15 PM - O42  A New Method For Quantification Of Aortic Stiffness In Vivo Using Magnetic Resonance Elastography (MRE): A Translational Study From Sequence Design To Implementation In Patients
Rachel Clough (King’s College London)

2:10 PM - 3:30 PM  WALKING POSTER SESSION (Basic)  (AGORA 2)

3:40 PM – 4:10 PM  REFRESHMENT BREAK/EXHIBITS/POSTERS  (RHODES AREA)
JOINT SCIENTIFIC SESSIONS

4:10 PM – 5:30 PM

CONCURRENT SESSION
INVITED SESSION 6: CMR in Unusual Pathologies from Around the World (with ASCI) (APOLLON)

Moderators: Herbert Frank, MD (University of Vienna)
Byoung Wook Choi, MD, PhD (Yonsei University College of Medicine)

At the conclusion of this session, participants will be better able to:
• Learning Objective
• Learning Objective
• Learning Objective

4:10 PM
Endomyocardial Fibrosis Double V Sign – A pathognomonic CMR Sign
Carlos E. Rochitte, MD (Heart Institute – InCor)

4:23 PM
Chagas Disease – Recent Developments
Gustavo Jardim Volpe, MD, PhD (University of Sao Paulo)

4:36 PM
HIV-Related Coronary and Myocardial Disease
Ahmed Gharib, MD (National Institutes of Health)

4:49 PM
Coronary Imaging in Kawasaki Disease
Hajime Sakuma, MD, PhD (Mie University Hospital)

5:02 PM
Different Spectrum of Hypertrophic Cardiomyopathy in Asian Population
Carmen Chan, MBBS (Queen Mary Hospital)

5:15 PM
CMR in Tuberculous Myopericarditis
Ntobeko Ntusi, MD (University of Oxford)

4:10 PM – 5:30 PM

CONCURRENT SESSION
INVITED SESSION 7: CMR of Molecular Changes (MUSES AREA - ERATE/URANIE)

Moderators: Matthias G. Friedrich, MD (Montreal Heart Institute)
Massimo Lombardi, MD (Polyclinic San Donato)

At the conclusion of this session, participants will be better able to:
• Learning Objective
• Learning Objective
• Learning Objective

4:10 PM
The Current Value of Fluor19 CMR Imaging
Ruud B. van Heeswijk, PhD (Lausanne University)

4:26 PM
CMR Using Iron Oxide Nano Particles – Potential for Plaque and Myocardial Imaging
Shirjel R. Alam, MBChB (Edinburgh University)

4:42 PM
Oxygenation-sensitive CMR – The Non-Invasive Window to Coronary and Microvascular Function?
Theo Karamitsos, PhD (Oxford Centre for Clinical Magnetic Resonance Research)

4:58 PM
Hyperpolarized C13 CMR - Imaging Metabolism Live
Craig R. Malloy, MD (UT Southwestern Medical Center)

5:14 PM
Molecular Imaging of Myocardial Injury and Repair
David E. Sosnovik, MD (Harvard Medical School)

4:10 PM – 5:30 PM

CASE REVIEW 6: The Patient is Referred for Work-up of Cardiomyopathy (HERMES AUDITORIUM)

Moderators: Joseph Selvanagayam, MBBS, DPhil (Flinders Medical Centre)
Christina Deluigi, MD (University Hospital of Bern)

4:10 PM - CR 38
Giant Cell Myocarditis: A Rare Cause of Myocarditis Presenting with Predominant Right Ventricular Involvement on Cardiac Magnetic Resonance Imaging And Pathology
Carole Dennie, MD, FRCPC (The Ottawa Hospital, University of Ottawa)

4:20 PM - CR 39
‘Myocarditis In Young’ Not Always a Benign Pathology
Amardeep Ghosh Dastidar, MBBS, MRCP (Bristol Heart Institute)

4:30 PM - CR 40
CMR and PET/CT at Diagnosis and Through Treatment in a Patient with Cardiac Sarcoid and Implanted Devices
Nam Ju Lee, MD (Perelman School of Medicine of the University of Pennsylvania)
JOINT SCIENTIFIC SESSIONS

4:40 PM - CR 41  Cobalt Cardiomyopathy: Cardiac MRI Findings
                Akbar Khan, MD (United Heart and Vascular Clinic)

4:50 PM - CR 42  Exotic Hyper-Eosinophilic Left Ventricular Cardiomyopathy Secondary to Strongyloide Infection
                Vimal Raj (Narayana Hrudyalayala Hospitals)

5:00 PM - CR 43  Isolated Septal Branch Myocardial Infarction Mimicking Non-Ischemic Late Gadolinium Enhancement Pattern on Cardiac Magnetic Resonance Imaging
                Teruo Noguchi, MD (National Cerebral and Cardiovascular Center)

5:10 PM - CR 44  Young Patient With Biventricular Dysfunction
                Sara El Fawal, MD (Alexandria University)

5:20 PM - CR 45  A Challenging Case: Noncompaction Right Ventricuel or Multiple Diverticula
                Zahra Alizadeh Sani, MD (Rajaie Cardiovascular Medical & Research Center)

4:10 PM – 5:30 PM ORAL ABSTRACT 8 (MUSES AREA - CLIO/THALIE)

4:15 PM - O43  Cardiac Mechanical Activation Mapping in Heart Failure Patients with Left Bundle Branch Block Using Cine DENSE MRI
                Daniel Auger Cornejo, PhD (University of Virginia)

4:27 PM - O44  Three dimensional modelling of the Effect of Arterial Pulse Wave Velocity and Body Size on Left Ventricular Geometry
                Wareed Alenaini, Master of Research (Imperial College London)

4:39 PM - O45  Automatic Multi-Vessel Volume Flow Calculation with 4D Flow CMR
                Mariana Bustamante (Linköping University)

4:51 PM - O46  4D Tissue Phase Mapping: Clinically Viable Acquisition Protocol and New Method of Visualisation
                Robin Simpson, MPhys (University Medical Centre)

5:03 PM - O47  Evaluation Of Left Ventricular Torsion Using Cardiac MRI Validation Of Feature Tracking
                Mark Ainslie, MBChB (University Hospital of South Manchester)

                Nicholas Byrne (King’s College London)

5:10 PM - 5:30 PM WALKING POSTER SESSION (Translational) (AGORA 2)

5:40 PM – 7:00 PM INVITED SESSION 8: 4D PC MRI - Towards Clinical Utility (APOLLON)

At the conclusion of this session, participants will be better able to:
• Learning Objective
• Learning Objective
• Learning Objective

5:40 PM  Optimization of 4D PC MRI Acquisition to Research and Clinical Applications – What is Available and What Should We Use?
          Oliver Wieben, PhD (University of Wisconsin-Madison)

5:53 PM  Efficient Post Processing and Analysis
          Einar Heiberg, PhD (Lund University)

6:06 PM  Clinical Application of 4D PC MRI in Aortic Disease
          Malenka Bissell, MD, MRCPCH (University of Oxford)

6:19 PM  Clinical Applications of 4D PC MRI in Congenital Heart Disease
          Philipp Beerbaum, MD, PhD (Hanover Medical University)
JOINT SCIENTIFIC SESSIONS

6:32 PM  
Clinical Applications of 4D PC MRI in Heart Failure  
Ann F. Bolger, MD (University of California San Francisco)

6:45 PM  
Panel Discussion

5:40 PM – 7:00 PM  
ORAL ABSTRACT SESSION 9 (MUSES AREA - CLIO/THALIE)  
Moderators:  Ingo Eitel, MD (University Leipzig)  
Lourens Robbers, MD (VU University Medical Center)

5:45 PM - O53  
Prognostic Significance Of Quantitative Measures Of Myocardial Infarct Pathology Using Native T1 Mapping, In Survivors Of ST-Elevation Myocardial Infarction  
David Carrick, BScMedSci, MBChB, MRCP (University of Glasgow)

5:57 PM - O52  
The MRI Evaluation of Nitric-oxide Mediated Systemic Endothelial Function and Coronary Endothelial Function in Healthy Subjects and Patients with Coronary Artery Disease  
Micaela Iantorno, MD (Johns Hopkins University)

6:09 PM - O54  
Prognostic Significance of Infarct Core Pathology in ST-Elevation Myocardial Infarction Survivors Revealed by Quantitative T2-Weighted Cardiac Magnetic Resonance  
David Carrick, BScMedSci, MBChB, MRCP (University of Glasgow)

6:21 PM - O49  
Suspected Acute Coronary Syndrome with Normal Coronary Arteries: Cardiovascular Magnetic Resonance in the Diagnosis and Management in the Emergency Room  
Alejandra Villanueva (São Paulo University)

6:33 PM - O50  
ECG and Navigator-Free 4D Whole-Heart Coronary MRA  
Jianing Pang, PhD (Cedars-Sinai Medical Center)

6:45 PM - O51  
Target Volume Coronary MRA Revisited: Usefulness of Non-Rigid Reregistration of Multi-Frame 3D MRA Acquisitions At 3T  
Masaki Ishida (Mie University Hospital)

5:40 PM – 7:00 PM  
ORAL ABSTRACT SESSION 10 (HERMES AUDITORIUM)  
Moderators:  Philipp Lurz, MD (Great Ormond Street Hospital)  
Andrew Crean, MRCP, FRCR (Toronto General Hospital)

5:45 PM - O55  
MRI Reveals Hemodynamic Changes with Acute Maternal Hyperoxygenation in Human Fetuses With and Without Congenital Heart Disease  
Prashob Porayette, MBBS, MSc (The Hospital for Sick Children)

5:57 PM - O56  
Cardiac MR-Derived Indices Are Stronger Predictors of Resource Use and Risk than Jugular Venous Pressure, in Paediatric Patients with Functionally Single Ventricles, Prior to Completion of Total Cavopulmonary Connection (TCP)
Marina Hughes, DPhil, MRCP, FRACP (Great Ormond Street Hospital for Children NHS Foundation Trust)

6:09 PM - O57  
Assessing Cardiac Function in the Single Ventricle Circulation: Kinetic Energy Ejection Fraction  
James Wong, MRCPCH (King’s College of London)

6:21 PM - O58  
Myocardial Blood Flow and Viability in Children Post Palliation Of Hypoplastic Left Heart Syndrome assessed with MRI  
Philip Wegner (Schleswig-Holstein University Hospital)

6:33 PM - O59  
Persistent Transverse Arch Hypoplasia is Associated with Systemic Hypertension After Coarctation of Aorta Repair  
Ashwin Prakash, MD (Boston Children’s Hospital)

6:45 PM - O60  
Fetal Blood Flow Measured Using Phase Contrast MRI-Comparison of Image Quality and Flow Volume at 1.5T with 3.0T  
Beverly Tsai-Goodman, MD (Royal Hospital for Sick Children)

5:40 PM – 7:00 PM  
ORAL ABSTRACT SESSION 11 (MUSES AREA - ERATE/URANIE)  
Moderators:  Anthony H. Aletras, PhD (Lund University Hospital)  
Michael Schär, PhD (Johns Hopkins University)

4:45 PM - O61  
3.0T Motion-Corrected Single-Shot Phase Sensitive Inversion Recovery (PSIR) Late Gadolinium Enhancement (LGE) in Free-Breathing Patients Compared with Conventional Segmented Breath-Held LGE  
Lu Lin (Peking Union Medical College Hospital)
JOINT SCIENTIFIC SESSIONS

4:57 PM - O62  Use of an Accelerated Protocol for Rapid Analysis of Iron Overload in the Heart and Liver: The All Iron Detected (AID) Multicenter Study
Juliano Fernandes, MD, PhD, MBA (Jose Michel Kalaf Research Institute)

6:09 PM - O63  Single Breath-Hold Real-Time MR Cardiac Cine for Evaluation of Left Ventricular Function
Tomoyuki Kido (Saiseikai Matsuyama Hospital)

6:21 PM - O64  High Resolution Ultra-Fast Sparse Sampling with Iterative Reconstruction Imaging for Left Ventricular Evaluation: Clinical Comparison with Standard SSFP Imaging
Christian Hamilton-Craig, MBBS, PhD, FSCCT, FACC (The Prince Charles Hospital)

6:33 PM - O65  Free Breathing Contrast-enhanced Time-resolved Magnetic Resonance Angiography in Congenital Heart Disease
Jennifer Steeden, MEng, PhD (UCL Centre for Cardiovascular Imaging)

6:45 PM - O66  Validation Of Segmented And Real-Time EPI Phase Contrast Flow Quantification Against Segmented Gradient Echo Sequences
Gergely Szantho, MD (Bristol Heart Institute)

5:40 PM - 7:00 PM  WALKING POSTER SESSION (Basic) (AGORA 2)

Saturday, February 7, 2015
CARDIOLOGY FOR NON-CLINICIANS

7:30 AM – 8:30 AM  Session 2: CHF – Heart Failure (MUSES AREA - CLI/THALIE)
Moderator: Oliver Bruder, MD (Elisabeth Hospital Essen)

At the conclusion of this session, participants will be better able to:
• Describe the pathophysiology of coronary atherosclerotic disease and how it relates to the development of a myocardial infarction
• List the most common causes and clinical symptoms of heart failure
• Describe the pathophysiology of aortic valve stenosis and the most common clinical presentation

7:30 AM  The Very Essence Of Heart Failure – Epidemiology, Differential Diagnosis, Treatment, and Risk Stratification
Marcus Carlsson, MD (Lund University Hospital)

7:45 AM  Myocarditis Update
Christoph Jensen, MD (Elisabeth Hospital)

8:00 AM  CHF Cases
Stefan Zimmerman, MD (Johns Hopkins University School of Medicine)

8:15 AM  Q&A

PHYSICS FOR PHYSICIANS

7:30 AM – 8:30 AM  Physics for Physicians 2 (APOLLON)
Moderator: Sonia Nielles-Vallespin, PhD (National Institutes of Health)

At the conclusion of this session, participants will be better able to:
• Understand the basic principles of signal generation, reception and decay in MRI
• Describe the basic image formation process and interrelations between the various parameters including the sources of potential image artifacts
• Evaluate the potential value of advanced motion correction, accelerated imaging and optimization concepts for their research and routine work

7:30 AM  CMR Motion Control - Sensors, Gating and Correction
Mathias Stuber, PhD (Lausanne University)

7:50 AM  CMR Acceleration - Parallel Imaging and Compressed Sensing
Nicole Seiberlich, PhD (Case Western Reserve University)

8:10 AM  CMR Optimization - SNR, Speed, Resolution and Imaging Limits
Sebastian Kozerke, PhD (Institute for Biomedical Engineering University and ETH Zurich)
JOINT SCIENTIFIC SESSIONS

7:30 AM – 8:30 AM CASE REVIEW 7: Potpourri Case Session (HERMES AUDITORIUM)
Moderators: Gerald McCann, MD (University Hospitals Leicester) Norbert Wilke, MD (University of Florida)

7:30 AM - CR 46 Thrombotic Pyrosis
Eloisa Feliu, MD, PhD (Hospital General Universitario de Alicante)

7:40 AM - CR 47 It's Complicated: Giant Left Ventricular Aneurysm, Pseudoaneurysm, and Ventricular Septal Defect
Steve Leung, MD (University of Kentucky)

7:50 AM - CR 48 Magnetic Resonance - Conditional Devices Produce Significant Image Degradation When Located Too Close the Heart: A Case of Loop-Recorder and a Case Of Dual-Chamber Pacemaker
Andrea Barison MD, PhD (Fondazione Toscana Gabriele Monasterio)

8:00 AM - CR 49 Remedy Worse than the Disease
Rafal Moscicki (Hospital General Universitario De Alicante)

8:10 AM - CR 50 Hypereosinophilic Syndrome Associated Endomyocarditis
Sumit Gupta, MRCP(UK), FRCR, PhD (University of Leicester)

8:20 AM - CR 51 Uhl's Anomaly In A Young Boy
Fateh Ali Sultan, MBBS, FCPS (Aga Khan University Hospital)

8:40 AM – 10:00 AM CONCURRENT SESSION
INVITED SESSION 9: Imaging the Ischemic Heart (APOLLON)
Moderators: Allison Hays, MD (Johns Hopkins University) Sahar Soleimanifard, MD, PhD (Johns Hopkins University)

At the conclusion of this session, participants will be better able to:
• Learning Objective
• Learning Objective
• Learning Objective

8:40 AM
Risk Stratification
John P. Greenwood, MBChB, PhD, MRCP (University of Leeds)

8:53 AM
Myocardial Perfusion Imaging
Robert Manka, MD (University Hospital Zurich)

9:06 AM
Stress Imaging
Igor Klem, MD (Duke University Medical Center)

9:19 AM
Late Gadolinium Enhancement
Sonia Nielles-Vallespin, PhD (National Institutes of Health)

9:32 AM
Lessons from Clinical Trials
Victor A. Ferrari, MD (University of Pennsylvania Medical Center)

9:45 AM
Controversies and Frontiers (Including MV Dysfunction, IHD in Women)
Sven Plein, MD, PhD (University of Leeds)

8:40 AM – 10:00 AM CONCURRENT SESSION
INVITED SESSION 10: Multimodality Imaging (with ESCR) (MUSES AREA - ERATE/URANIE)
Moderators: Jens Bremerich, MD (University Hospital) Nadine Kawel-Boehm, MD (University of Basel Hospital)

At the conclusion of this session, participants will be better able to:
• Oversee modalities not typically used by participant
• Understand strengths and limitations of different modalities
• Identify the best modality for a specific clinical situation

8:40 AM
Comprehensive Imaging of Ischemic Heart Disease with SPECT-CT
Matthias Gutberlet, MD (University of Leipzig)
JOINT SCIENTIFIC SESSIONS

8:53 AM  Cardiac CT in the Emergency Unit
Christopher Herzog, MD (Radiologie München)

9:06 AM  Tissue Characterisation with PET
Asbjorn M. Scholtens, MD (University Medical Center Utrecht)

9:19 AM  CT Perfusion Imaging
Joao A.C. Lima, MD (Johns Hopkins University)

9:32 AM  Current and Future Role of PET-MRI
Osman Ratib, MD, PhD (University of Geneva)

9:45 AM  Panel Discussion
Ischemic Heart Disease and Tissue Characterisation in 2025: Nuclear, CT, MR or Hybrid?

8:40 AM – 10:00 AM  CASE REVIEW 8: CMR In Congenital and Pediatric Patients II (HERMES AUDITORIUM)
Moderators: Sohrab Fratz, MD, PhD, FESC (German Heart Centre Munich)
Tarique Hussain, MD, PhD (King’s College, London, UK)

8:40 AM - CR 52  Progressive Dyspnea and Cyanosis In A Middle Age Man: An Uncommon Disease in Adulthood Detected by Cardiac MRI
Tarinee Tangcharoen, MD (Mahidol University)

8:50 AM - CR 53  Apical Muscular VSD Closed in Childhood - Rare Complication in Adulthood
Mahesh Kappanayil, MD (Amrita Institute of Medical Sciences and Research Centre)

9:00 AM - CR 54  Time-Resolved Angiography & 3d Printing in Congenital Heart Disease: Understanding a Difficult Case
Maria Velasco Forte, PhD Student (Guy’s and Saint Thomas Hospital)

9:10 AM - CR 55  CMR Findings of Myocardial Infarction in a Patient with Severe Graft Versus Host Disease
Following Bone Marrow Transplantation
Michael Campbell, MD (Duke University)

9:20 AM - CR 56  Dobutamine Stress Cardiac MRI for Assessment of Myocardial Perfusion in Pediatric Patients with a Diagnosis of Intramyocardial Coronary Course
Cory Noel, MD (Baylor College of Medicine)

9:30 AM - CR 57  A Rare Case of Survival into Adulthood with w Rare Complex CHD
Mahesh Kappanayil, MD (Amrita Institute of Medical Sciences and Research Centre)

9:40 AM - CR 58  A Rare Presentation Of Takayasu Arteritis With Abdominal Aortic Dissection Among Other, Typical, Findings: Pre- And Postsurgical Imaging
Tamadhir Gazzaz, MBBS

9:50 AM - CR 59  Cardiac MRI and Ultrasound Findings in a Patient with Repaired Tetralogy of Fallot (ToF) and Atypically Located Right Ventricular Myxoma: A Case Report
Alexandros Kalifatidis (St. Luke’s Hospital)

8:40 AM – 10:00 AM  ORAL ABSTRACT SESSION 12 (MUSES AREA CLIO/THALIE)
Moderators:  Christopher H. Kramer, MD (University of Virginia Health System)
Hajime Sakuma, MD, PhD (Mie University Hospital)

8:45 AM - O68  Blood Flow Pattern in the Ascending Aorta After TAVI and Conventional Aortic Valve Replacement: Analysis Using 4D-Flow MRI
Ralf Trauzeddel (Charité University Medicine Berlin)

8:57 AM - O72  Characterization of Atherosclerotic Carotid Plaque Using MATCH: Initial Clinical Experience
Wei Yu (Beijing anzhen Hospital)

9:09 AM - O69  Differential Hemodynamic Characteristics of High-Resistance vs. High-Flow Type of Pulmonary Artery Hypertension Revealed by Phase-Contrast MRI
Ming-Ting Wu, MD (Kaohsiung Veterans General Hospital)

9:21 AM - O71  Non-contrast 3D Radial and QISS MRA for Transcatheter Aortic Valve Replacement Planning
Akos Varga-Szemes, MD, PhD (Medical University of South Carolina)

Chikara Noda, BS (Johns Hopkins University)
9:45 AM - O70  
**USPIO Enhanced 4D flow Imaging of the Mouse Cardiovascular System at 7T with an Ultrasound Echo Time Sequence**  
Aurélien Trotier, MSc (Centre de Résonance Magnétique des Systèmes Biologiques)

8:40 AM - 10:00 AM  
**WALKING POSTER SESSION (Translational) (AGORA 2)**

10:00 AM – 10:30 AM  
**REFRESHMENT BREAK/EXHIBITS/POSTERS (RHODES AREA)**  
Exhibit Hall is open from 8:00 am - 7:00 pm; Exhibits staffed from 10:00 am - 4:30 pm

10:40 AM – 12:00 PM  
**INVITED SESSION 11: Too Small, Too Thick and Too Big: CMR of the Left Heart and Aorta in Congenital Heart Disease (APOLLON)**  
Moderators: Karen Ordovas, MD (University of California San Francisco School of Medicine)  
Arno Roest, MD, PhD (Leiden University Medical Center)

At the conclusion of this session, participants will be better able to:

- Understand the abnormalities of the left and right ventricle in congenital and pediatric heart disease and how CMR can be applied
- Apply advanced CMR techniques to assess the left en right ventricle in pediatric and congenital heart disease
- Understand how CMR can be used in clinical decision-making involving left and right ventricular abnormalities in congenital heart disease

10:40 AM  
**The Borderline Left Ventricle – When is Small Too Small? CMR in Clinical Decision Making for Uni- vs Bi-Ventricular Repair**  
Puja Banka, MD (Boston Children's Hospital)

10:56 AM  
**The Thick LV: Paediatric Aspects of CMR Imaging In Hypertrophic Cardiomyopathy**  
Francesca Raimondi, MD (The Hôpital Necker – Enfants Malades)

11:12 AM  
**When the Aortic Valve is Too Small: T1 Mapping in Congenital Aortic Stenosis**  
Andrew J. Powell, MD (Children's Hospital Boston)

11:28 AM  
**4D Flow in a Small or Enlarged Aorta**  
Alex Barker, PhD (Northwestern University)

11:44 AM  
**Big, Small or Tortuous? CMR of the Aorta in Connective Tissue Disease**  
Shaine Morris, MD (Texas Children's Hospital)

10:40 AM – 12:00 PM  
**CASE REVIEW 9: Best Cases of the SCMR Web COTW (HERMES AUDITORIUM)**  
Moderators: Edward T. Martin, MD (Oklahoma Heart Institute)  
TBD

10:40 AM – 12:00 PM  
**ORAL ABSTRACT SESSION 13 (MUSES AREA - CLIO/THALIE)**  
Moderators: Rohan Dharmakumar, PhD (Cedars-Sinai Medical Center)  
Damian Tyler, PhD (University of Oxford)

10:45 AM - O73  
**Myocardial Conduction Network Visualized By Magnetic Resonance Microscopy/Diffusion Imaging and Validated By Histology**  
John Forder, PhD (University of Florida)

10:57 AM - O74  
**Visual Detection and Characterization of Chronic Myocardial Infarctions in Patients Using Native T1 Maps at 3T**  
Avinash Kali, MS (Cedars-Sinai Medical Center)

11:09 AM - O74  
**Characterization of Both Myocardial Extracellular Volume Expansion and Myocyte Hypertrophy by CMR in Heart Transplantation Recipients Without Active Rejection: Implications for Early Cardiac Remodeling**  
Otavio Coelho-Filho, MD, PhD (State University of Campinas – UNICAMP)

11:21 AM - O76  
**Assessment of Intramyocardial Hemorrhage in Acute Reperfused Myocardial Infarction Using 7.0T**  
Wei Chen, PhD Student (West China Hospital)

11:33 AM - O77  
**Improving the Stratification Power of Cardiac Ventricular Shape**  
Gerardo Gonzalez (King's College London)

11:45 AM - O78  
**Validation of High Temporal Resolution Spiral Phase Velocity Mapping of Coronary Artery Blood Flow Against Doppler Flow Wire.**  
Jennifer Keegan, PhD (Imperial College)
### ORAL ABSTRACT SESSION 14 (MUSES AREA - ERATE/URANIES)

**Moderators:** Holger Thiele, MD (University of Luebeck)  
Oliver Bruder, MD (Essen)

**10:45 AM - O85**  
**Left Ventricular Remodelling and Prosthetic Valve Function After Transcatheter Aortic Valve Implantation: A Serial Cardiac Magnetic Resonance Imaging Study**  
Constanze Merten (Herzzentrum Bad Segeberg)

**10:57 AM - O86**  
**Performance of Native and Contrast Enhanced T1 Mapping to Detect Myocardial Damage in Patients with Suspected Myocarditis: A Head to Head Comparison of Different CMR-Techniques**  
Jonathan Nadjiri (Deutsches Herzzentrum München)

**11:09 AM - O87**  
**Improved Diagnostic Role of CMR in Acute Coronary Syndromes and Unobstructed Coronary Arteries: The Importance of Time-to-CMR**  
Amardeep Ghosh Dastidar, MBBS, MRCP (Bristol Heart Institute)

**11:21 AM - O88**  
**Turbulent Kinetic Energy in the Ascending Aorta is Greater in Bicuspid than Tricuspid Aortic Valve Stenosis**  
Margaret Loudon, MBChB (University of Oxford)

**11:33 AM - O89**  
**T1 Mapping in Severe Aortic Stenosis: Insights into LV Remodeling**  
Thomas Treibel, MBBS (University College London)

**11:45 AM - O90**  
**T1 and T2 Mapping CMR to Quantify Focal Myocardial Injury in Patients with Myocarditis**  
Kai Muellerleile, MD (University Heart Center Hamburg)

### WALKING POSTER SESSION (Clinical) (AGORA 2)

**12:00 PM - 1:00 PM**  
**LUNCH/EXHIBITS/POSTERS/MODERATED ORAL POSTER COMPETITION SESSION (RHODES AREA)

### CONCURRENT SESSION

**INVITED SESSION 12: CMR of Arrhythmia and Ablation (APOLLON)**

**Moderators:** Graham A. Wright, PhD (Sunnybrook Research Institute, University of Toronto)  
Tobias Schaefetter, PhD (Kings College London)

At the conclusion of this session, participants will be better able to:
- Understand the role of MRI in characterising the arrhythmic substrate and the effect of ablation therapy
- Learn about computational modelling for treatment planning
- Understand the role of different imaging modalities in image-guided EP-procedures

**1:10 PM**  
**MRI of the Arrhythmic Substrate**  
David A. Bluemke, MD, PhD (National Institutes of Health)

**1:26 PM**  
**Planning of Ablation Strategies**  
Oleg Aslanidi, PhD (King's College London)

**1:42 PM**  
**Integration of Multi-modal Imaging for EP-procedures**  
Saman Nazarian, MD, PhD (Johns Hopkins University)

**1:58 PM**  
**Clinical MR-guided EP-procedures**  
Reza Razavi, MD (King's College London)

**2:14 PM**  
**MRI of acute RF-lesions**  
Graham A. Wright, PhD (Sunnybrook Research Institute, University of Toronto)

### CONCURRENT SESSION

**INVITED SESSION 13: Assessing the Hematology/Oncology Patient (MUSES AREA - ERATE/URANIES)**

**Moderators:** Alexis Jacquier, MD (CHU la Timone / CEMEREM)  
Christopher H. Kramer, MD (University of Virginia Health System)

At the conclusion of this session, participants will be better able to:
- Understand the complementary role of CMR in patients undergoing chemotherapeutic assessment
- Understand the strengths and limitations of CMR in assessing intracardiac mass
- Understand the general role for CMR in evaluating hematology/oncology patients

**1:10 PM**  
**The Cardiac Effects of Chemotherapeutics and Immunotherapy on the Heart and the Use of Imaging in Guiding Therapy**
JOINT SCIENTIFIC SESSIONS

Michael Salerno, MD, PhD (University of Virginia Health System)

1:23 PM  CMR for the Detection of Preclinical LV Dysfunction in Breast Cancer Therapies
Ana Barac, MD, PhD (Washington Hospital Center)

1:36 PM  CMR for the Evaluation of Intracardiac Masses
Patricia Bandettini, MD (Bethesda, Maryland)

1:49 PM  Novel Use of Tissue Characterization in Screening and Monitoring the Oncology/Hematology Patient
James Moon, MD (The Heart Hospital)

2:02 PM  Integrating CMR into a Cardio-Oncology Practice
Lauren Simprini, MD (Yale School of Medicine)

2:15 PM  Clinical Cases/Discussion Panel

1:10 PM – 2:30 PM  ORAL ABSTRACT SESSION 15 (MUSES AREA - CLIO/THALIE)
Moderators: Andrew Crean, MRCP, FRCR (Toronto General Hospital)

1:15 PM - O79  Gender and Myocardial Fibrosis by CMR are Independent Predictors of Myocardial Dysfunction in Patients with Chagas’ Heart Disease
Alejandra Villanueva (Heart Institute)

1:27 PM - O80  Predictors of Outcome in Patients with Parvovirus B19 Positive Endomyocardial Biopsy
Simon Greulich, MD (Robert Bosch Medical Center)

1:39 PM - O81  Abnormal Myocardial Perfusion Correlates with Impaired Systolic Strain and Diastolic Strain Rate in Systemic Lupus Erythematosus: A Cardiovascular Magnetic Resonance Study
Ntobeko Ntusi, MD, MBCiB (University of Oxford)

1:51 PM - O82  Cardiovascular Magnetic Resonance Assessment of Ventricular Morphology to Investigate the Mechanisms of Heart Failure Associated with Type 2 Diabetes
Peter Swoboda (University of Leeds)

2:03 PM - O83  Preclinical Alterations in Cardiac Energetics Amongst Sarcomere Mutation Carriers in Hypertrophic Cardiomyopathy
Rachael Lloyd (South Australian Health and Medical Research Institute)

2:15 PM - O84  Native T1 Mapping in Patients with Idiopathic Dilated Cardiomyopathy for the Assessment of Diffuse Myocardial Fibrosis: Validation Against Histologic Endomyocardial Biopsy
Yoshitaka Goto (Mie University Hospital)

1:10 PM – 2:30 PM  ORAL ABSTRACT SESSION 16 (HERMES AUDITORIUM)
Moderators: Philip Lurz, MD (Great Ormond Street Hospital)
Titus Kuehne, MD

1:15 PM - O91  Whole-Heart Contrast Enhanced Coronary Magnetic Resonance Angiography Using Respiratory Image Based Navigation in Patients with Congenital Heart Disease
Miguel Vieira, MD (King’s College London)

1:27 PM - O92  MRI Reveals Increased Superior Vena Caval Blood Flow In Human Fetuses With Congenital Heart Disease, Abnormal Placental Pathology And Neonatal Brain White Matter Changes
Sujana Madathil, MBBS (The Hospital for Sick Children)

1:39 PM - O93  Relationship between Collateral Flow and Exercise Performance in Fontan Patients: An Exercise CMR Study
Kevin Whitehead, MD, PhD (Children’s Hospital of Philadelphia)

1:51 PM - O94  Systemic Right Ventricular Fibrosis Detected By CMR Predicts Adverse Clinical Outcome In Patients After Atrial Redirection Surgery For Transposition Of The Great Arteries
Rikkiya Rydman, MD, PhD (Royal Brompton Hospital)

2:03 PM - O95  Respiratory Pulsations Affect Fontan Connection Power Loss: Using Real Time Velocity Mapping to Improve the Accuracy of Computational Simulations
Elaine Tang, BEng (Georgia Institute of Technology)

2:15 PM - O96  Characterization of The Relationship Between Bicuspid Aortic Valve Morphology and Hemodynamics
Vrishank Raghav, PhD (Georgia Institute of Technology)
JOINT SCIENTIFIC SESSIONS

1:10 PM - 2:30 PM  WALKING POSTER SESSION (Basic) (AGORA 2)

2:40 PM – 4:00 PM  CONCURRENT SESSION

INVITED SESSION 14: Aortic Valve Disease and Transcatheter Aortic Valve Replacement (APOLLON)
Moderators: Chiara Bucciarelli-Ducci, MD, FESC (Bristol Heart Institute)
Byoung Wook Choi, MD, PhD (Yonsei University College of Medicine)

At the conclusion of this session, participants will be better able to:
• Learning Objective
• Learning Objective
• Learning Objective

2:40 PM  Aortic Stenosis: A Disease of the Valve and Myocardium
Gerald McCann, MD (University Hospitals Leicester)

2:53 PM  Comprehensive Assessment of Aortic Stenosis by CMR
Clério F. Azevedo, MD (Clinica de Diagnostico por Imagem)

3:06 PM  Role of CMR to guide decision making in aortic regurgitation
Saul Myerson, MD, FRCP (University of Oxford)

3:19 PM  Novel Mapping Techniques in Aortic Valve Disease: Ready for Prime Time?
Joao A.C. Lima, MD (Johns Hopkins University)

3:32 PM  The Role of CMR to Guide TAVR
Matthias Gutberlet, MD (University of Leipzig)

3:45 PM  Unresolved Issues and Future Directions – Role of CMR and Other Imaging Modalities
Calvin Chin, MD (University of Edinburgh)

2:40 PM – 4:00 PM  CONCURRENT SESSION

INVITED SESSION 15: Small Animal CMR (MUSES AREA - ERATE/URANIE)
Moderators: Sebastian Kozerke, PhD (Institute for Biomedical Engineering University and ETH Zurich)
Bernhard Gerber, MD (Cliniques St. Luc UCL)

At the conclusion of this session, participants will be better able to:
• Understand similarities and differences of equipment and methods for small and large animal CMR relative to human CMR
• Identify the animal models used to emulate various cardiovascular conditions/diseases
• Describe imaging approaches to monitor structural, molecular and pharmacological interventions

2:40 PM  CMR Technology in Animals
Frederick H. Epstein, PhD (University of Virginia)

2:53 PM  Ischemic Heart Disease Models (Including Pigs)
Frank Kober, PhD (Centre de Résonance Magnétique Biologique et Médicale)

3:06 PM  Heart Failure Models (Including Pigs)
Jurgen Schneider, PhD (Oxford University)

3:19 PM  Stem Cell Models
Dara Kraitchman, VMD, PhD (Johns Hopkins University School of Medicine)

3:32 PM  Molecular Imaging
Alkystis Phinikaridou, PhD (Kings College London)

3:45 PM  Therapy Monitoring

2:40 PM – 4:00 PM  CASE REVIEW 10: World Cup Case Session Competition (HERMES AUDITORIUM)
Moderators: Albert van Rossum, MD, PhD (VU Medical Center)
Mark Westwood, MD, FRCP (The London Chest Hospital)

Competitors: Andrew E. Arai, MD (NHLBI - National Institutes of Health)
Albert de Roos, MD, PhD (Leiden University Medical Center)
Victor A. Ferrari, MD (University of Pennsylvania Medical Center)
Matthias G. Friedrich , MD (Montreal Heart Institute)
JOINT SCIENTIFIC SESSIONS

Raymond J. Kim, MD (Duke Medical Center)
James Moon, MD (The Heart Hospital)
Saul Myerson, MD, FRCP (University of Oxford)
Jeanette Schulz-Menger, MD, FESC (Charité Universitätsmedizin)

2:40 PM – 4:00 PM  ORAL ABSTRACT SESSION 17 (MUSES AREA - CLIO/THALIE)
Moderators: Anthony H. Aletras, PhD (Lund University Hospital)

2:45 PM - O97  Assessing Ischemic Myocardial Metabolism In Vivo With Hyperpolarized 13C: Relating The Metabolic Perturbation To The Area At Risk
Hikari Yoshihara (Lausanne University Hospital)

2:57 PM - O98  Effect of Exercise on Myocardial Energy Metabolism And Relationship Between Coronary Microvascular Dysfunction and Abnormal Myocardial Energetics in Diabetic Cardiomyopathy
Eylem Levetl (University of Oxford)

3:09 PM - O99  Impaired Energetics and Normal Myocardial Lipids in Rheumatoid Arthritis and Systemic Lupus Erythematosus: A Phosphorous and Proton Magnetic Resonance Spectroscopy and Cardiovascular Magnetic Resonance Study
Ntobeko Ntusi, MD, MBChB (University of Oxford)

3:21 PM - O100  Hyperpolarized Metabolic Imaging of Myocardial Ischemia-Reperfusion in a Small-Animal Model at 9.4T
Darach O h-Ici, MD (German Heart Institute)

3:33 PM - O101  Myocardial Fatty Acid Metabolism Probed with Hyperpolarized [1-13C]Octanoate
Hikari Yoshihara (Lausanne University Hospital)

3:45 PM - O102  Development of a Tropoelastin-Binding MR Contrast Agent for in Vivo Imaging of Impaired Elastogenesis in Atherosclerosis
Alkystis Phinikaridou (King’s College London)

2:40 PM - 4:00 PM  WALKING POSTER SESSION (Congenital) (AGORA 2)

4:15 PM – 5:30 PM  CLOSING PLENARY: CMR’s Impact on Global Cardiovascular Health: Latest progress and looking forward (APOLLON)
Moderators:  Victor A. Ferrari, MD (University of Pennsylvania Medical Center)
Sven Plein, MD, PhD (University of Leeds)
Orlando P. Simonetti, PhD (The Ohio State University)

At the conclusion of this session, participants will be better able to:
• Learning Objective
• Learning Objective
• Learning Objective

4:15 PM  Session Highlights
Sven Plein, MD, PhD (University of Leeds)
Victor A. Ferrari, MD (University of Pennsylvania Medical Center)

4:35 PM  Coronary MR – Angiography and Beyond
Warren J. Manning, MD (Beth Israel Deaconness Medical Center)

4:55 PM  The 4th Era of Myocardial CMR
Vanessa Ferreira, MD (University of Oxford)

5:10 PM  Translating Technology to Improved Outcomes
Raymond Kwong, MD, MPH (Brigham and Women’s Hospital)

5:25 PM  Farewell until 2016 in LA (SCMR), Florence? (EuroCMR)
Sven Plein, MD, PhD (University of Leeds)
Victor A. Ferrari, MD (University of Pennsylvania Medical Center)

5:30 PM – 6:30 PM  AWARD CEREMONY (APOLLON)
Gold Medal and Other Award Presentations
This activity has been approved for credit by the American Society of Radiologic Technologists (ASRT) for a maximum of 10.75 CE credits.

**8:40 AM – 10:10 AM**  
**Session 1 – Physics**  
Moderator: David Wendell, PhD (Duke University Medical Center)

**8:40 AM**  
*Cardiac Pulse Sequences*  
Albert Hsiao, MSc (University of California, San Diego)

At the conclusion of this session, the participant will be better able to:
- Identify typical pulse sequences used for cardiac MRI.
- Understand the typical uses for each of the pulse sequences.
- Identify the basic parameters available for optimization of each pulse sequence in routine scanning.

**9:10 AM**  
*Sequence Optimisation*  
Magalie Viallon-Croisille, PhD (CREATIS Laboratory, University Hospital of Saint Ettienne, University of Lyon)

At the conclusion of this session, the participant will be better able to:
- Learning the minimal MR physics notions that allows to optimise the main cardiovascular sequences
- Be able to identify the main artefacts and find the work around to resolve the problem if possible
- Know the tips and tricks to tune MR sequence parameters of interest for optimisation purposes

**9:40 AM**  
Artifacts and How to Avoid Them  
Francesco Santini, MD (University Hospital Basel)

**10:10 AM – 10:40 AM**  
**REFRESHMENT BREAK/EXHIBITS/POSTERS**

Exhibit Hall is open from 8:00 am - 7:00 pm; Exhibits staffed from 10:00 am - 4:30 pm

**10:40 AM – 12:00 PM**  
**Session 2 – Patient Setup, Vascular Imaging and Flow Assessment**  
Moderator: Chris Lawton (Bristol Heart Institute)

**10:40 AM**  
*Poor ECG Triggering: What Can We Do?*  
Christina Deluigi, MD (University Hospital of Bern)

At the conclusion of this session, the participant will be better able to:
- Recognize trigger artifacts
- Optimize parameters
- Understand mechanism of ECG trigger problems

**11:05 AM**  
*CE MRA Including Time Resolved Angio*  
Tim Leiner, MD, PhD (Utrecht University Medical Center)

At the conclusion of this session, the participant will be better able to:
- Understand state-of-the-art ‘static’ and ‘dynamic’ acquisition methods in contrastenhance MR Angiography
- Understand contrast-dosing strategies and how to optimize contrast injection to obtain the best image quality at the lowest dose
- Discuss recent insights regarding contrast medium safety

**11:30 AM**  
*Post Processing Flow Data - How, Why and What Does it Mean*  
John-Paul Carpenter, MD (Poole Hospital)

At the conclusion of this session, the participant will be better able to:
- Choose which CMR flow acquisitions are relevant for analysis
- Analyze CMR flow data
- Interpret the results

**12:30 PM – 1:10 PM**  
**LUNCH ON OWN**

**1:10 PM – 2:30 PM**  
**Session 3 – Ischaemia and Viability**  
Moderator: Michelle Walkden, BSC (University Hospital Trust Southampton)

**1:10 PM**  
*Late Gadolinium Enhancement*  
Scott Flamm, MD (Cleveland Clinic)
At the conclusion of this session, the participant will be better able to:
• Discuss the mechanisms responsible for the increased signal intensity in irreversibly damaged myocardium
• Explain the distinct advantages of late gadolinium enhancement imaging by cardiac MRI
• Recognize the clinical situations appropriate for cardiac MRI late gadolinium enhancement imaging

1:35 PM  Adenosine Stress
Aparna Deshpande, MD (University Hospitals of Leicester NHS Trust)

At the conclusion of this session, the participant will be better able to:
• Recognize the indications and contraindications for adenosine stress with regards to assessment for underlying ischaemia
• Distinguish genuine perfusion defect from artefacts and underlying infarction
• Comprehend the techniques and protocol involved in adenosine stress perfusion

2:00 PM  Dobutamine Stress
Raymond Kwong, MD, MPH (Brigham and Women's Hospital)

At the conclusion of this session, the participant will be better able to:
• List the steps of pre-test safety assessment and conditions where dobutamine stress CMR are contraindicated
• Recognize the steps in imaging LV function and perfusion during stages of progressive dobutamine infusion
• Know the method of image interpretation for dobutamine CMR imaging

2:30 PM – 3:00 PM  REFRESHMENT BREAK

3:00 PM – 4:20 PM  Session 4 – Oral Abstracts
Moderator: Jane Francis (John Radcliffe Hospital)

4:40 PM – 6:00 PM  Session 5 – Cardiomyopathy
Moderator: Baljit Jagpal, MSc, PgC-MRI, DCR (University of Aberdeen / NHS Grampian)

4:40 PM  Acquired Cardiomyopathies
Richard Coulden, MD (University of Alberta)

At the conclusion of this session, the participant will be better able to:
• TBA
• TBA
• TBA

5:05 PM  Familial Cardiomyopathies
Katherine Tweed, MD (Papworth Hospital NHS Foundation Trust)

At the conclusion of this session, the participant will be better able to:
• Utilize appropriate sequences for assessment of the range of phenotypic expression of Hypertrophic Cardiomyopathy
• Describe the typical MRI features of ARVC, supported by histopathological correlation
• Recognise the typical MRI appearances in glycogen storage diseases of Anderson-Fabry and Gauchers

5:30 PM  Metabolic Cardiac Diseases
Michaela Scheuermann-Freestone, MD (Oxford Centre for Clinical Magnetic Resonance Research)

At the conclusion of this session, the participant will be better able to:
• Associate some metabolic abnormalities with their implications on cardiac function
• Apply this knowledge to other well known metabolic disorders
• Realise the potential and advantages of cardiac MRI in assessing the heart in metabolic diseases
Saturday, February 7, 2015

8:40 AM – 10:10 AM Session 6 – CMR in Congenital Heart Disease
Moderator: Kraig Kissinger (Beth Israel Deaconess Medical Center)

8:40 AM Imaging the Paediatric Patient
Romina Linton, BSc (Great Ormond Street Hospital)

At the conclusion of this session, the participant will better be able to:
• Recognise the diversity of patients undergoing Cardiac MRI
• Acknowledge the importance of each role in the multidisciplinary team
• Tailor protocols and optimise sequences according to the patients diagnosis and size

9:10 AM Adult Congenital Heart Disease
Andrew Crean, MRCP, FRCR (Toronto General Hospital)

At the conclusion of this session, the participant will better be able to:
• Review the MRI techniques available for imaging adult congenital heart disease (ACHD)
• Review common congenital pathologies where these techniques can be applied
• Recognize the limitations of MRI in certain contexts

9:40 AM Congenital Heart Disease Associated With Chromosomal Disorders
Ian Rogers, MD (Stanford University)

At the conclusion of this session, the participant will better be able to:
• Identify the common chromosomal disorders associated with congenital heart disease
• Understand possible necessary accommodations for scanning patients with chromosomal disorders
• Identify the factors routinely assessed by CMR in patients with tetralogy of Fallot

10:10 AM – 10:40 AM REFRESHMENT BREAK/EXHIBITS/POSTERS
Exhibit Hall is open from 8:00 am - 7:00 pm; Exhibits staffed from 10:00 am - 4:30 pm

10:40 AM – 12:00 PM Session 7 – CMR in Cardiac Masses and Diseases of the Valves and Pericardium
Moderator: Jennifer Bryant (University Hospital Southampton)

10:40 AM Valvular Disease
Bobby Agrawal, MD (Papworth Hospital NHS Foundation Trust)

At the conclusion of this session, the participant will better be able to:
• Describe the normal anatomy of the cardiac valves as seen on MRI
• Understand the common pathologies of cardiac valves
• Identify congenital and iatrogenic valvular lesions

11:05 AM Pericardial Disease
Chi Wai Stephen Cheung, MBBS, FRCR (Queen Mary Hospital)

At the conclusion of this session, the participant will better be able to:
• Identify the role of MR in the characterisation of common pericardial diseases
• Select the MR imaging sequence and technique to be used in the investigation of pericardial disease
• Describe the typical MR appearance of common pericardial pathologies

11:30 AM Cardiac Masses
Stephen Harden, MD (University Hospital Southampton)

At the conclusion of this session, the participant will better be able to:
• Recognise the utility of CMR in imaging myocardial masses
• Generate a protocol for imaging cardiac tumours
• Develop an approach to the initial interpretation of these scans

12:00 PM – 1:10 PM LUNCH ON OWN

1:10 PM – 2:40 PM Session 8 – Emerging Technology
Moderator: Elizabeth Jenista, PhD (uke University Medical Center)

1:10 PM T1 and T2 Mapping – Where Are We Now
Stefan Piechnik, PhD (Oxford University)
At the conclusion of this session, the participant will better be able to:
• Generalize the principles of quantitative magnetic resonance imaging,
• Differentiate between the common cardiovascular techniques and their variants,
• Understand the limitations, recognise basic artefacts and application strategies in daily imaging.

1:40 PM  
3T Cardiac Imaging - How to Do it Well and Safely  
Rajesh Dash, MD, PhD (Stanford University)

At the conclusion of this session, the participant will better be able to:
• Review safety measures for working in strong magnetic fields; absolute and relative contraindications to cardiac MRI
• Acquire strategies to obtain high quality cardiac MR images at 3T
• Identify solutions to common 3T CMR pitfalls

2:10 PM  
Cardiac Spectroscopy  
Paul Bottomley, PhD (Johns Hopkins University)

At the conclusion of this session, the participant will better be able to:
• Say/know what technology and protocols are required to do cardiac MRS
• Say/know what are the most promising applications of cardiac MRS.
• Understand its potential for assessing cardiac energetics in heart failure.

2:40 PM - 3:40 PM  
Session 9 – Case Review Session  
Moderator: Alison Fletcher, DCRR, PG Dip (Paperworth Hospital)

2:40 PM  
Case Review – Non-congenital  
James Shambrook, MD (University Hospital Southampton)

At the conclusion of this session, the participant will be better able to:
• Compare and differentiate the variety of CMR sequences available, and their role in diagnosis
• Recognize how CMR works as a problem solving tool
• Contrast the benefit of CMR compared to other imaging modalities

3:10 PM  
Case Review – Congenital  
Marina Hughes, MD (Great Ormond Street Hospital)

At the conclusion of this session, the participant will better be able to:
• Describe the techniques for optimising image planes for diagnostic scanning of the volume-loaded RV
• Recognise some basic techniques for optimising temporal and spatial resolution, and slice position, to more accurately quantify flow data from the aortic arch, pulmonary arteries, systemic and pulmonary veins.
• Comprehend some of the technical complexities of scanning a paediatric patient with a functionally single ventricle and cavo-pulmonary shunt (BCPC), prior to surgical conversion to a Fontan-type circulation (Total cavo-pulmonary connection (TCPC))

3:40 PM - 4:00 PM  
Closing Plenary  
Alison Fletcher, DCRR, PG Dip (Papworth Hospital)

At the conclusion of this session, the participant will better be able to:
• Comprehend the importance the role the technologist plays in using CMR as a diagnostic tool
• Understand the importance of accurate image acquisition
• Be able to use clinical knowledge to aid in the technical aspects of image acquisition.
TECHNOLOGIST POSTERS

T 4  Lawton, Chris  Positioning the First Short Axis Slice for Ventricular Volume Analysis
T 5  Lawton, Chris  How to measure vessel flow with CMR phase contrast imaging.
T 6  Kissinger, Kraig  A greater incidence of Nausea/Vomiting Reactions to Multihance® is Seen Among Those of African Descent
T 7  Wage, Ricardo  The Utility of Magnetic Resonance Imaging in a Trial to Assess the Effect of Renal Denervation in Heart Failure with Preserved Ejection Fraction
T 8  Yamrozik, June  Imaging the PM/AICD patient; Is it Evolving into a Routine Procedure? An Evolutionary Report of our first 100 Patients.
T 9  Yamrozik, June  Imaging the PM/AICD patient; Is it beneficial to the final diagnosis?
T 10  Wormleighton, Joanne  CMR at 3.0T in Routine Clinical Practice - Tips and Tricks to Optimise Image Quality and Enhance Patient Flow
T 11  Cao, Jian  Feasibility study of a novel acquisition technique of cardiac cine magnetic resonance imaging in patients with atrial fibrillatio
T 12  Norman, Wendy  High throughput cardiac imaging in awake young children: Tips and Tricks
POSTERS

Thursday, February 5, 2015

6:00 PM – 7:00 PM  POSTER SESSION 1
Not accredited for CME

You are invited to meet the poster authors of the following categories on Thursday evening during the Wine and Cheese Reception

Categories Being Presented In Poster Session 1 Are:
- Basic Translational – New Techniques Ready for Clinical Application
- Basic Translational – Post-Processing and Workflow
- Basic Translational – Pre-Clinical Validation of Existing Technique
- CAD Ischemia and Viability
- CAD Other

Friday, February 6, 2015

12:30 PM – 1:30 PM  POSTER SESSION 2
Not accredited for CME

You are invited to meet the poster authors of the following categories on Friday during the break for lunch

CATEGORIES BEING PRESENTED IN POSTER SESSION 2 ARE:
- Clinical Outcome and Prognosis
- Congenital Heart Disease
- Cost Effectiveness and Comparison to Other Modalities
- EP and Interventional Applications
- Metabolism, Spectroscopy, and Hyperpolarized MRI

Saturday, February 7, 2015

12:00 PM – 1:00 PM  POSTER SESSION 3
Not accredited for CME

You are invited to meet the poster authors of the following categories on Saturday during the break for lunch

CATEGORIES BEING PRESENTED IN POSTER SESSION 3 ARE:
- Molecular Imaging; Contrast Agents
- Non-Ischemic Heart Disease – Primary and Secondary CMP
- Non-Ischemic Heart Disease – Other
- Rapid, Efficient Imaging
- Vascular MRI
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P 024  El Baz, Mohammed S. M.  Impact of disturbed diastolic vortex formation on viscous energy loss in the left ventricle: Quantitative 4D Flow MRI analysis of healthy controls and repaired atrioventricular septal defect patients

P 025  Scott, Andrew  Directions vs. averages: An in-vivo comparison for cardiac DTI

P 026  Francois, Christopher  Exercise Cardiac MR Assessment of Diastolic Function

P 027  Zhu, Meng Yuan  Fetal haemodynamic assessment in a case of late-onset intrauterine growth restriction by phase contrast MRI and T2 mapping

P 028  Coats, Louise  Variations in Right Atrial Flow Patterns in the Normal Heart A Potential Contributor to Cryptogenic Stroke in the setting of Patent Foramen Ovale

P 029  Atweh, Lamya  Comparison of Respiratory-Triggered (RT) 3D Cine Steady-State Free Precession Cardiac MRI with Standard 2D Cine Imaging and Magnetic Resonance Angiography in Congenital Heart Disease (CHD)

P 030  Steding-Ehrenborg, Katarina  Atrial and ventricular kinetic energy is higher in athletes compared to healthy controls and contributes to improve diastolic filling of the ventricles

P 031  Muthurangu, Vivek  Segmented whole body haemodynamic responses to a high calorie meal – a novel MR approach

P 032  Gregory, T. Stan  Rapid Quantification of Stroke Volume using Magnetohydrodynamic Voltages in 3T MRI: A Feasibility Study

P 033  Satriano, Alessandro  Multiplanar 4D strain analysis with spatial mapping to 3D LGE quantification: relationships in chronic Ischemic Cardiomyopathy.

P 034  Nguyen, Christopher  In Vivo Diffusion-Weighted MRI Detection of Myocardial Fibrosis in Hypertrophic Cardiomyopathy Patients

P 035  Mazumder, Ria  In-Vivo Waveguide Cardiac Magnetic Resonance Elastography

P 036  Hedjazi Moghari, Mehdi  High-resolution Whole-heart Angiography with Compressed Sensing and 3D Respiratory Motion Compensation in 5 Minutes

P 037  Contijoch, Francisco  Continuous adaptive radial sampling of k-space from real-time physiologic feedback in MRI

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P 040  Dorniak, Karolina  A novel tool for phase contrast MR-derived pulse wave velocity measurement - validation against applanation tonometry and phantom studies

P 041  Tobon-Gomez, Catalina  Standardised unfold map of the left atrium: regional definition for multimodal image analysis

P 042  Charles, Roux  CMR left atrial characterization in Cushing’s syndrome: a feature tracking study.

P 043  Goetschalckx, Kaatje  Shared versus non-shared prepulse perfusion MR sequence in absolute myocardial perfusion quantification.

P 044  Ananth Narayan, Srinivas  Comparison of great artery dimensions in 3-D Dual-phase SSFP, compared with 3D CE-MRA and Phase-contrast imaging (Magnitude image)

P 045  Broadbent, David  Comparison of Non-Linearity Correction Methods for Quantitative Myocardial Perfusion MRI

P 046  Tao, Qian  Myocardial Scar Surface Area Identified by LGE MRI is an Independent Predictor of Mortality in Post-Infarction Patients

P 047  Ibrahim, El-Sayed  Detection of LV Function Abnormality Using Temporal Patterns of Normalized Wall Thickness

P 048  Kantasis, Georgios  Simulating MR imaging for the human embryonic heart

P 049  Child, Nicholas  T1 values by conservative septal postprocessing approach are superior in relating to the interstitial myocardial fibrosis: findings from patients with severe aortic stenosis

P 050  Biglands, John  A comparison of dual-bolus and dual-sequence quantitative myocardial perfusion techniques

P 051  Javed, Ahsan  Motion correction facilitates the automation of cardiac ASL perfusion imaging.

P 052  Bidhult, Sebastian  A new validated T2* analysis method with certainty estimates for cardiac and liver iron load determination.

P 053  Moghaddam, Abbas  Effect of segmentation of k-space in SSFP flow artifacts

P 054  Suzuki, Munemura  A qualitative and quantitative assessment of cardiac cine Phase contrast MRI: comparison of image quality between 2D and 3D acquisition

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P 120 Nezafat, Maryam A Segmented Modified Look-Locker Inversion Recovery (MOLLI) Sequence for High Heart Rate T1 Mapping of Mice

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P 143 Pérez-David, Esther Assessment of regional and global left ventricular function with electromechanical mapping: validation against MRI. A PRECISE substudy.

P 144 Adebo, Dilachew Magnetic Resonance Evaluation of Coronary Anatomy, First-pass myocardial perfusion and Late Gadolinium Enhancement in children with acquired and congenital heart disease

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| Q008 | Jeremy Collins | Cardiac MR feature tracking identifies abnormal biventricular global strain values in biopsy-proven non-ischemic cardiomyopathies |
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Q016  Michael Markl  Impact of Cardiac Arrhythmia on Velocity Quantification by ECG gated Phase Contrast MRI

Q017  Mikael Kanski  Whole-heart 4D flow can be acquired with preserved quality without respiratory gating facilitating clinical use

Q018  Florence PONTNAU  Associations between native myocardial T1 and diastolic function evaluated by PC-CMR in patients with severe aortic valve stenosis

Q019  Gerald Wisenberg  Imaging of Post-Infarction Myocardial Inflammation with Hybrid FDG PET/MR: Feasibility and Preliminary Findings in a Canine Model

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Q021  Junfei Lu  Improved 2D slice-interleaved flow-independent cardiac black blood imaging using Ferumoxytol

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Q023  Ee Ling Heng  Pilot data of right ventricular myocardial T1 quantification by free-breathing fat-water separated dark blood saturation-recovery imaging

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Q028  Shazia Hussain  Quantitative assessment of myocardial mechanics in patients with cardiac amyloid using cardiovascular magnetic resonance myocardial feature tracking

Q029  Aurelien BUSTIN  Joint Denoising and Motion Correction: Initial Application in Single-Shot Cardiac MRI

Q030  El-Sayed Ibrahim  Evaluation of Ventricular Global Function from Tagged CMR Images

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**Cardiovascular Imaging Solutions LTD** develop CMRtools – a software package that is widely used for the viewing and analysis of cardiovascular magnetic resonance images. It provides a range of plug-in tools for specialized cardiovascular assessment including ventricular, T2*, first pass perfusion and flow assessment.

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Diagnosoft develops innovative software tools for cardiac MRI analysis and reporting. Diagnosoft’s FDA cleared technology makes cardiac MRI not just a powerful exam, but also an economical one. Our patented HARP and SENC techniques are the gold standard of strain imaging. We have incorporated this proprietary technology into a newly developed 15 minute CMR exam. This approach provides the benefits of maximum efficiency and cost-effectiveness, as well as an increased patient comfort and satisfaction.

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The EACVI (European Association of Cardiovascular Imaging) is a registered branch of the European Society of Cardiology (ESC). It is the largest multimodality imaging organization in the world and aims at promoting patient-centered use of imaging modalities, including CMR. Its objectives are excellence in clinical diagnosis research, technical development and education in cardiovascular imaging. More information on the EACVI stand at www.escardio.org/EACVI.

**GE Healthcare**

3200 N. Grandview Blvd.
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Phone: (+49) 89-55283711
Email: Anja.braue@ge.com
Web: www.gehealthcare.com

GE Healthcare provides transformational technologies and services to meet the demand for increased access, enhanced quality and more affordable healthcare around the world.

**Guerbet**

BP 57400
Roissy CDG Cedex, France 95943
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Email: bastien.thomas@guerbet-group.com

Guerbet’s men and woman are committed to offering health professionals contrast agents, medical devices and innovative solutions indispensable to diagnostic and interventional imaging to improve patients’ prognosis and quality of life. Passionate about our business, we strive day in, day out to combine performance, quality and sustainable development.

**Heart Imaging Technologies**

5003 Southpark Drive, Suite 140
Durham, NC 27713
Phone: (919) 323-4104
Fax: (866) 457-3694
Email: Carlee.reimer@heartit.com
Web: www.heartit.com

Heart Imaging Technologies has advanced CMR by leveraging zero footprint web technology to allow any Principal Investigator to initiate and run a multi-center CMR clinical trial. CloudCMR™ and Precession™ provide clinical trial organizational tools as part of an easily accessible cloud service, and allows sharing of images and data between colleagues at separate institutions and/or countries with a simple mouse click. Please join us for lunch on Friday, February 6 to see how it works!

**Imricor Medical Systems**

400 Gateway Blvd.
Burnsville, MN 55337
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Web: www.imricor.com

Imricor Medical Systems specializes in developing devices and systems that are compatible with magnetic resonance imaging (MRI). Its unique MR-enabled interventional products are designed to provide doctors the ability to perform interventional procedures while taking advantage of the superior soft tissue imaging capabilities of MRI. Imricor is the world leader in the development of MR-enabled devices for electrophysiology applications. Imricor also licenses its technology to help make implanted medical devices compatible with MRI.

**Materialize**

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Web: http://biomedical.materialise.com

Materialise, specialist in Additive Manufacturing since 1990, is the market leader in 3D Printing and digital CAD software. Its software for biomedical R&D, the Mimics® Innovation Suite, allows import of medical image data (CT, MRI, etc), quantification in 3D, physical benchtop model design, mesh optimization for FFA/CFD and much more.

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Morphus Medical

1700 4th Street, MC2522 BH214
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Phone (650) 319-7230
Fax (650) 319-7231
Email info@morphusmedical.net
Web www.morphusimaging.com

We believe that offering a new technology that enables clinicians to visualize and accurately quantify blood flow in the heart can help millions of patients who suffer from heart disease.

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Nano4Imaging GmbH

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Aachen, Germany 52074
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Nano4Imaging concentrates on development and manufacture of products (instruments and markers) that enable the use of MRI in imaged-guided interventions and MRI-based diagnostics. We have a focus on cardiology (congenital heart disease, fibrillation) but also envisage applications in oncology. We offer a CE-labeled MRI conditional wire for clinical use in Europe.

NeoSoft, LLC is focused on developing innovative, cutting-edge technology solutions for medical imaging, visualization and diagnostics. Our team is comprised of very talented, knowledgeable and experienced radiologists, application specialists, and software designers. Our goal is to make computer-aided medical diagnostics easy for the clinician, significantly reducing analysis time and ensuring patients receive the best healthcare outcomes.

Precision Image Analysis

401 Parkplace Center, Suite 103
Kirkland, WA 98033
Phone (425) 822-1999
Fax (425) 519-9971
Email mwaiss@piamedical.com
Web www.PIAmedical.com

Precision Image Analysis (PIA) provides an innovative remote cardiac image post-processing analysis service for use in diagnostic medical studies, including CT and MRI. Our secure portal enables you to upload, monitor, track, and retrieve analyses remotely. Migrating image analysis to PIA means that you won’t need to worry about schedule, time, or resource bottlenecks. We can easily and cost-effectively handle your surges in image analysis volume and most complex cases. Leave the post-processing to us.

Philips Healthcare

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Royal Philips (NYSE: PHG, AEX: PHIA) is a diversified health and well-being company, focused on improving people’s lives through meaningful innovation in the areas of Healthcare, Consumer Lifestyle and Lighting. Headquartered in the Netherlands, Philips posted 2013 sales of EUR 23.3 billion and employs approximately 112,000 employees with sales and services in more than 100 countries. The company is a leader in cardiac care, acute care and home healthcare, energy efficient lighting solutions and new lighting applications, as well as male shaving and grooming and oral healthcare. News from Philips is located at www.philips.com/newscenter.

Pie Medical Imaging B.V.

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Email pmi-exhibitor@pie.nl
Web www.piemedicalimaging.com

Pie Medical Imaging, a company with over 25 years of experience in quantitative analysis software for medical images, offers a wide range of software packages for cardiovascular analysis of MRI images. With our CAAS MRV software Functional analysis of the left and right ventricles, Viability, Edema and First Pass Perfusion analysis can be performed. CAAS MR (4D) Flow software allows for quantification of blood flow, velocities, wall shear stress and detailed visualization of hemodynamics.
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