



SOCIETY OF
CARDIOVASCULAR
COMPUTED TOMOGRAPHY



SCCT|2016 PROGRAM

**11th Annual Scientific Meeting
of the Society of Cardiovascular
Computed Tomography**

June 23-26, 2016

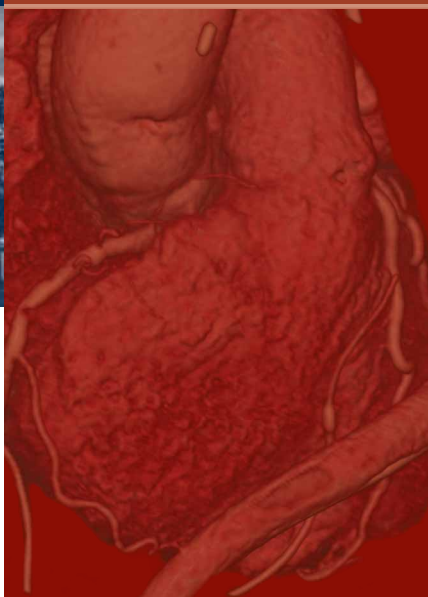
**8th Annual SCCT Comprehensive
Board Review and Update of
Cardiovascular CT**

June 22-23, 2016

**Renaissance Orlando
at SeaWorld®**

Orlando, Florida, USA

The Society of Cardiovascular Computed Tomography is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.



www.scct.org

New this year!

Download the
SCCT2016 Mobile App!



Registration Desk Hours

DAY	OPEN HOURS
Wednesday, June 22	6:30 am–5:30 pm
Thursday, June 23	7:00 am–7:30 pm
Friday, June 24	6:30 am–6:30 pm
Saturday, June 25	7:00 am–6:30 pm
Sunday, June 26	7:00 am–1:00 pm

Exhibit Hall Hours

THURSDAY, JUNE 23	
6:00 pm–7:30 pm	Exhibit Hall Open
6:30 pm–7:30 pm	Welcome Reception
FRIDAY, JUNE 24	
7:00 am–4:00 pm	Exhibit Hall Open
7:00 am–8:00 am	Coffee Break
10:00 am–11:00 am	Coffee Break
10:00 am–10:45 am	Moderated Poster Session
12:30 pm–1:45 pm	Coffee Break*
3:15 pm–3:45 pm	Coffee Break
SATURDAY, JUNE 25	
7:00 am–3:30 pm	Exhibit Hall Open
7:00 am–8:00 am	Coffee Break
9:30 am–10:30 am	Coffee Break
9:30 am–10:15 am	Moderated Poster Session
12:00 pm–1:15 pm	Coffee Break*
2:45 pm–3:00 pm	Coffee Break

* Lunch will be available for purchase in the Exhibit Hall.

Speaker Ready Room Hours

DAY	OPEN HOURS
Wednesday, June 22	6:30 am–5:00 pm
Thursday, June 23	7:00 am–6:00 pm
Friday, June 24	7:00 am–6:00 pm
Saturday, June 25	7:00 am–6:00 pm
Sunday, June 26	7:00 am–12:00 pm

Thank You

to the following committees
for giving their valuable time
in planning the
11th Annual Scientific Meeting

President

Jonathon A. Leipsic, MD, FSCCT

President-Elect

Leslee J. Shaw, PhD, FSCCT

Annual Scientific Meeting

Committee Chair

Leslee J. Shaw, PhD, FSCCT

Co-Chairs

Maros Ferencik, MD, PhD, FSCCT

Edward Nicol, MD, MBA, FSCCT

Koen Nieman, MD, PhD, FSCCT

**SCCT Comprehensive Board
Review and Update of
Cardiovascular CT**

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Wm. Guy Weigold, MD, FSCCT

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**2016 Abstract Grading
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Chair

Michael Cheezum, MD, FSCCT

**2016 Best Abstract Award
Committee**

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Damini Dey, PhD, FSCCT

**2016 Young Investigator
Award Committee**

Chair

Ronald Karlsberg, MD, FSCCT

**2016 SOAR Award
Committee**

Chair

Suhny Abbata, MD, FSCCT

Dear Distinguished Colleagues and Guests,

The Society of Cardiovascular Computed Tomography (SCCT), along with the SCCT Annual Scientific Meeting Program Committee, welcomes you to this year's Annual Scientific Meeting (**SCCT2016**)! We are excited to have you join us in Orlando as we enter into the Society's exciting second decade.

SCCT2016 is the leading scientific meeting dedicated exclusively to cardiovascular CT, and is designed to provide you unique educational experiences in clinical applications, cutting-edge research and technological developments within our field. **SCCT2016** will explore the most recent and comprehensive research developments in cardiovascular and coronary CT angiography, including the fundamentals of our profession, major technological and scientific advances and novel applications of cardiovascular CT.

This year's program offers many opportunities to network with distinguished leaders and colleagues in the field through a wide range of sessions. These include case presentations, Read with the Experts, dedicated multimodality workshops and much more, focused on clinical applications of cardiovascular CT and multimodality imaging.

New at 2016, be sure to check out:

- Sex-Specific Differences CCTA: Defined CAD and Atherosclerosis
- Radiation Dose and Regulations
- "How To" for CCTA Laboratories
- The Technologist and Nurse Workshop
- The Fellows and Residents Program
- This year's international spotlight: **Brazil and Latin America Present**

In the Exhibit Hall, you will find many opportunities to gain hands-on experience while hearing about the newest products and latest trends from industry experts and representatives. Oral and poster abstract sessions offer multiple opportunities to learn about cutting edge research in the field. We encourage you to take advantage of these incredible learning opportunities.

The 2016 Gold Medal and Industry Recognition Reception, on Friday, June 24 from 6:15–7:45 pm, will honor the 2016 recipient of the Gold Medal Award, Dr. Matthew J. Budoff, as well as SCCT's valued industry partners. Please join us for cocktails and hors d'oeuvres—tickets will be available for purchase until 10 am on Friday at the SCCT Registration Desk.

Thank you for choosing to attend **SCCT2016**! We hope that your attendance provides you with a creative and educational exchange of ideas that results in an incredible, personally rewarding experience.

Sincerely,

Leslee J. Shaw, PhD, FSCCT
Chair, Annual Scientific Meeting Committee
SCCT President-Elect

Jonathon A. Leipsic, MD, FSCCT
SCCT President



New and Improved SCCT Online Experience!



SOCIETY OF
CARDIOVASCULAR
COMPUTED TOMOGRAPHY

is excited to announce
a new learning management platform
and new SCCT website
to improve your
customer experience and allow easier access
to online educational materials!

**COMING SOON,
LATE SUMMER 2016!**

Get the Official SCCT2016 App Today!



Download the official mobile app for **SCCT2016** to access search and planning features to maximize your time!

Use the app to search for exhibitors, tag your favorite events, request meetings and more. Locate your favorite booths on the map and download your personalized walking map. Browse the complete program and start planning your **SCCT2016** experience!

To download the **SCCT2016 App**, search "**SCCT2016**" in **iTunes** or **GooglePlay** or scan the appropriate QR code below.



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Access Your
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SCCT2016 WiFi Instructions

1. Select Renaissance_Conference and click "Connect"
2. Once connected, open your Web browser—you will be directed to Solution IP login page
3. Type in the Access Code: **scct2016** (case sensitive)
4. After a few moments your page will default to the Renaissance website. You can now access the web and email!

** Please log in with one device at a time to be considerate of the other attendees.*

SCCT Gold Medal Award**Matthew J. Budoff, MD, FSCCT***Professor of Medicine at the David Geffen School of Medicine at UCLA | Endowed Chair of Preventive Cardiology and Director of Cardiac CT at Harbor-UCLA Medical Center*

Inaugurated in the 10th anniversary year, the Gold Medal Award recognizes outstanding leaders who have made landmark contributions to the field of cardiovascular CT and to the Society. Dr. Budoff is an international expert on Coronary Artery Calcification (CAC) and CT Angiography, as well as a recognized leader in the development of CAC Scoring. He is an innovator in the non-invasive objective detection methods for cardiovascular disease, including groundbreaking work on the application of calcium scoring to patients at-risk for cardiovascular events.

Arthur S. Agatston Cardiovascular Disease Prevention Award**Jagat Narula, MD, PhD, FSCCT***Chief of Cardiology at Mount Sinai St. Luke's and Mount Sinai Roosevelt and Mount Sinai West Hospitals of Mount Sinai | Professor of Medicine and Radiology at the Icahn School of Medicine at Mount Sinai | Associate Dean at the Arnhold Institute for Global Health at Mount Sinai*

Dr. Arthur Agatston, the award's namesake, is a visionary and pioneer in the field of noninvasive cardiac imaging and one of the world's leading preventive cardiologists. This award promotes the prevention of death from heart disease by recognizing individuals whose pioneering efforts have saved lives from the leading killer throughout the world, coronary artery disease. SCCT is pleased to present this award to Jagat Narula, MD, PhD, FSCCT for his lifelong contributions to disease prevention in the field of cardiology, in particular for his work in prevention of myocardial infarction and heart failure through novel imaging techniques.

Toshiba Young Investigator Award

The 10th Annual Toshiba Young Investigator Award in cardiovascular computed tomography is provided through the generous support of Toshiba America Medical Systems, Inc.

This year's finalists are:

Rolf Symons, MD | Fabian Plank, MD | Christian Tesche, MD

The program is intended to promote the research and writing skills of the trainees, as well as their oral presentation skills, and may provide the catalyst for some trainees to become future thought leaders in the field of cardiovascular imaging. SCCT and Toshiba America Medical Systems, Inc. recognize the importance of supporting the educational development of our radiology residents and cardiology fellows. Watch these oral presentations on Saturday, June 25 from 10:30 am–12:00 pm. Two winners will be recognized at the closing ceremony.

Siemens Outstanding Academic Research (SOAR) Award

The 10th annual Siemens Outstanding Academic Research (SOAR) Award in cardiovascular computed tomography is provided through the generous support of Siemens Healthcare.

This year's finalists are:

Michelle Williams, MD, PhD | Guanglei Xiong, MD | Alexia Rossi, MD | Adriaan Coenen, MD | Lohendran Baskaran, MD | Rui Wang, MD

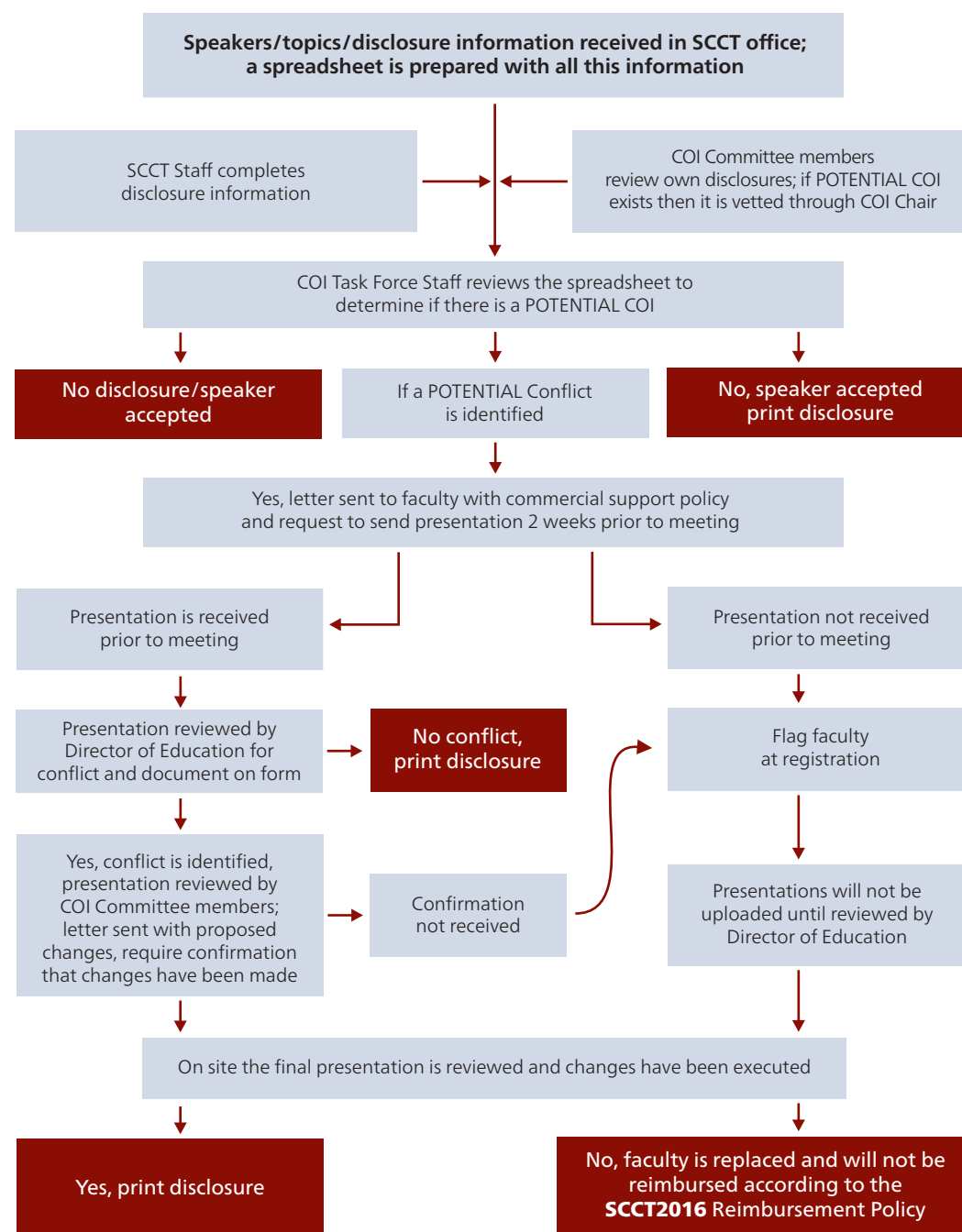
The SOAR award supports the professional and clinical development of top radiology and cardiology experts. SCCT and Siemens Healthcare recognize the importance of supporting the educational development of our radiology and cardiology experts within the cardiovascular CT community. Watch these oral presentations on Friday, June 24 from 1:45 pm–3:15 pm. One winner and one runner-up will be recognized at the closing ceremony.

Best Abstract Award

This award is open to all abstracts submitted to the 11th Annual Scientific Meeting. A panel of judges will review all poster and oral abstract presentations and select five winners in the categories of clinical and technical research—no application is necessary. Five abstract winners will be selected and recognized at the closing ceremony.

Brazil and Latin America Present Best Abstract Award

All abstracts submitted from Brazil and Latin America will be highlighted in the abstract sessions throughout the meeting. These abstracts will be reviewed by the Best Abstract Committee and one winner from Brazil and one winner from Latin America will be picked. The winners will be recognized at the Brazil and Latin America Present session on Saturday, June 25, from 6:00 pm to 7:00 pm.

Live Activity Conflict Identification and Management

Statement of Need

Cardiovascular disease is the leading cause of death in the United States and imposes an ever increasing burden on health care systems. Rapidly changing technology and the criteria for its use continue to be at the forefront in the diagnosis and treatment of patients presenting with possible cardiovascular disease. Due to advancing technologies in cardiac imaging it is essential that we close the knowledge, competence and performance gaps by bringing together experts in the field to provide peer-to-peer education and interactive discussion through case-based, didactic and interactive sessions. Cardiologists, radiologists, technologists and other clinicians with an interest in cardiovascular disease will benefit from the varied formats at the SCCT 11th Annual Scientific Meeting. SCCT has designed the SCCT 11th Annual Scientific Meeting to address and narrow the practice gaps of its members.

Overview and Objectives

The SCCT 11th Annual Scientific Meeting is designed to engage physicians and healthcare professionals interpreting cardiovascular CT in a comprehensive exploration of the most current developments in the field of cardiovascular CT principles, methodologies, appropriateness criteria and clinical practice. Didactic lectures, image-based case examples, and the research in cardiovascular CT are designed to increase the competence and performance of the physician and technologist performing and interpreting cardiovascular CT. The Annual Meeting will focus on the technological advances, as well as the potential applications and limitations of cardiovascular CT.

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

- Discuss with colleagues the parameters which result in maximum image quality while minimizing radiation exposure during cardiovascular CT
- Identify potential common image artifacts which contribute to inappropriate analysis of cardiovascular CT scans
- Determine when an alternative imaging method would improve the diagnosis of a specific cardiovascular anomaly
- Critically evaluate those data which indicate potential applications of cardiovascular CT in other patient studies
- Discuss the appropriate use of cardiovascular CT with colleagues and patients
- Evaluate the emerging research in cardiovascular CT to determine its possible role in changing the current evidence-based protocols or stimulating additional research

CME Information

Accreditation

The Society of Cardiovascular Computed Tomography is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

Designation

The Society of Cardiovascular Computed Tomography designates this live activity for a maximum of **24.75 AMA PRA Category 1 Credits™** (7.00 for the Thursday, June 22, 2016 Pre-Program, 17.75 for the Annual Scientific Meeting). Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Note: CME credit is preliminary and may increase or decrease incrementally as the program schedule evolves.

CE Information

23.25 Category A credits have been approved for through the American Society of Radiologic Technologists (ASRT) (8.25 for the Thursday, June 23 Pre-Program, 15 for the Annual Scientific Meeting). CE credit is not available for all sessions. CE sessions can be identified throughout the program by the CE Technologist and Nurse symbol.



Disclosure Policy

It is the policy of the Society of Cardiovascular Computed Tomography, as a Society accredited by the ACCME, to adhere to the ACCME Accreditation Criteria; the ACCME Standards of Commercial Support; Standards to Ensure Independence in CME Activities; the ACCME Policies and Definitions; and American Medical Association (AMA) Physician's Recognition Award (PRA) and credit system as well as other regulations and laws as they relate to the provision of CME. SCCT requires everyone in a position to control the content of an educational activity to disclose all relevant financial relationships with any commercial interest. This is required during the planning process to ensure resolution of any identified conflicts well in advance of the educational activity (see COI Financial Disclosure Grid on page 7). The ACCME defines "relevant financial relationships" as financial relationships in any amount, occurring within the past 12 months, including financial relationships of a spouse or life partner, which could create a conflict of interest. SCCT discloses support of the educational activity through grants or in-kind support, as well as the discussion of unlabeled or unapproved use of any drug, device or procedure prior to the educational activity.

The Society of Cardiovascular Computed Tomography presents this activity for educational purposes only and does not endorse any product, content of presentation or exhibit. Participants are expected to utilize their own expertise and judgment while engaged in the practice of medicine. The Society of Cardiovascular Computed Tomography staff has no financial relationships to disclose.

Faculty disclosures will be provided via handout and given to attendees at the registration desk along with their badge.

24.75
Credits

23.25
Credits

Procedures for CME Credit

To claim **AMA PRA Category 1 Credits™** it is important to do the following:

- Please verify your email address at the Registration Desk during the meeting.
- A link to the 2016 Annual Scientific Meeting evaluation will be sent electronically to your email inbox after the meeting.
- Complete the electronic evaluation and credit verification no later than July 22, 2016.
- Certificates for this meeting will be issued within 4-6 weeks after the completion of the required online document.

If you have any questions or issues with receiving your CME credit for this course, please email education@scct.org.

Procedures for CE Credit

To receive the appropriate number of CE credits:

- Technologists must sign in at each session approved for CE credit.
- Sign-in sheets will be located on the table just inside the session room.
- Partial credit will not be awarded.
- Credit will be issued within 4-6 weeks following conclusion of the meeting.

Faculty Evaluation

A faculty evaluation will be sent electronically to your inbox during the meeting. Please take the time to fill out this evaluation. This information will assist us in future planning of this and other programs to meet your educational needs. Your feedback is very important to us.

International Spotlight

Throughout the meeting you will have many opportunities to see the new and exciting initiatives, science and research from the **Brazil and Latin America International Regional Committees (IRCs)**.

Look for this symbol throughout the meeting to locate **Brazil and Latin America Present** sessions.

We hope you will be able to join us for these specific Brazil and Latin America Present activities:

- **Brazil and Latin America Present Session**
Saturday, June 25 at 6:00–7:00 pm in the Main Room (Oceans Ballroom 9–12)
- **Brazil and Latin America Best Abstract Award**
To presented at the at the close of the Brazil and Latin America Present Session on Saturday, June 25 in the Main Room (Oceans Ballroom 9–12)



FRIDAY, JUNE 24

Time	Main Room (Oceans Ballroom 9–12)	Breakout Room 1 (Crystal Ballroom E)	Breakout Room 2 (Crystal Ballroom D)	Breakout Room 3 (Crystal Ballroom C)	Breakout Room 4 (Crystal Ballroom A&B)
6:30 am–6:30 pm	Registration Desk Open (6:30 am–6:30 pm) Exhibit Hall Open (7:00 am–4:00 pm)				
7:00 am–8:00 am	Coffee Break in Exhibit Hall HeartFlow Symposium* in Crystal Ballroom A&B (7:00 am–7:50 am)				
8:00 am–10:00 am	Opening Session with presentation of Agatston Award				
10:00 am–11:00 am	Coffee Break in Exhibit Hall Moderated Poster Session in Exhibit Hall (10:00 am–10:45 am)				
11:00 am–12:30 pm	Patient-Centered Imaging	New Therapies, New Imaging Challenges	Prognosis with CT	Oral Abstracts I	
12:30 pm–1:45 pm	Coffee Break in Exhibit Hall GE Healthcare Symposium* in Crystal Ballroom A&B (12:45 pm–1:30 pm)				
1:45 pm–3:15 pm	Preventive Screening (Endorsed by ASPC)	Emerging Techniques and Optimized Protocol	Hybrid Cardiovascular Imaging	SOAR Award Oral Abstracts	Taking Innovation in Cardiovascular CT to the Patient (Endorsed by ASCI)
3:15 pm–3:45 pm	Coffee Break in Exhibit Hall				
3:45 pm–5:00 pm	CT as a Guide to Therapeutic Decision Making (Endorsed by SCAI)	RWTE Session (GE Healthcare/Heartflow)	Sex-Specific Differences CCTA: Defined CAD	Oral Abstracts II	
5:00 pm–5:15 pm	Break				
5:15 pm–6:15 pm		Novel Technologies			

*Satellite Symposia are not a part of the SCCT program content as designed by the SCCT Annual Scientific Program Committee and are not approved for CME credit.

Join us for the 2016 GOLD MEDAL AND INDUSTRY RECOGNITION RECEPTION

Friday, June 24 | 6:15 pm–7:45 pm

Help us celebrate this year's 2016 Gold Medal Award winner

Matthew J. Budoff, MD, FSCCT

and recognize our 2016 Industry Partners!

Don't miss the opportunity to catch up with friends and colleagues and make new connections. The event will feature cocktails and hors d'oeuvres.

Tickets are available for sale until 10 am on Friday, June 24.

Space is limited, purchase your tickets today!

SATURDAY, JUNE 25

Time	Main Room (Oceans Ballroom 9–12)	Breakout Room 1 (Crystal Ballroom E)	Breakout Room 2 (Crystal Ballroom D)	Breakout Room 3 (Crystal Ballroom C)
7:00 am–6:30 pm	Registration Desk Open (7:00 am–6:30 pm) Exhibit Hall Open (7:00 am–3:30 pm)			
7:00 am–8:00 am	Coffee Break in Exhibit Hall Arineta Ltd. Symposium* in Crystal Ballroom A&B (7:00 am–7:50 am) SCCT Business Meeting in Main Room (7:50 am–8:00 am)			
8:00 am–9:30 am	Are You Ready for the Plaque Revolution?	RWTE Session (Siemens Healthcare)	"How To" for CCTA Laboratories	Oral Abstracts III
9:30 am–10:30 am	Coffee Break in Exhibit Hall Moderated Poster Session in Exhibit Hall (9:30 am–10:15 am)			
10:30 am–12:00 pm	Master Debates: Imaging in Action	RWTE Session (Philips Healthcare)	Invasive & Noninvasive FFR	Young Investigator Award Oral Abstracts
12:00 pm–1:15 pm	Coffee Break in Exhibit Hall Siemens Healthcare Symposium* in Crystal Ballroom A&B (12:15 pm–1:00 pm) Toshiba Symposium* in Discovery Ballroom (12:15 pm–1:00 pm)			
1:15 pm–2:45 pm	CT Jeopardy	Targeting Our Priority Populations for CT Angiography	Radiation Dose and Regulations	Oral Abstracts IV
2:45 pm–3:00 pm	Coffee Break in Exhibit Hall Exhibit Hall Closes at 3:30 pm			
3:00 pm–4:15 pm	Myocardial Ischemia, Infarction and Fibrosis	Congenital Heart Disease	Tough Candidates, Challenging Conditions	Oral Abstracts V
4:15 pm–4:30 pm	Break			
4:30 pm–6:00 pm	Team Spirit			
6:00 pm–7:00 pm	Brazil & Latin America Present			

*Satellite Symposia are not a part of the SCCT program content as designed by the SCCT Annual Scientific Program Committee and are not approved for CME credit.

SUNDAY, JUNE 26

Time	Main Room (Oceans Ballroom 9–12)	Breakout Room 1 (Crystal Ballroom E)	Breakout Room 2 (Crystal Ballroom D)	Breakout Room 3 (Crystal Ballroom C)
7:00 am–1:00 pm	Registration Desk Open (7:00 am–1:00 pm) Exhibit Hall is Closed			
7:30 am–8:00 am	Coffee Break in Foyer			
8:00 am–9:30 am	Watch the Experts Read Unknown Cases		Multimodality Imaging in TAVI	Developing a Screening Program Using CAC: Part 1
9:30 am–10:00 am	Coffee Break in Foyer			
10:00 am–11:30 am	CCTA in Health Policy (Endorsed by ACR)		CCTA in the Revascularized Patient	What to Do With Calcium Scan Results: Part 2
11:30 am–11:40 am	Coffee Break in Foyer			
11:40 am–1:00 pm	Closing Session: A Vision for the Future			

New this year...

Sex-Specific Differences CCTA: Defined CAD and Atherosclerosis

Friday, June 24 | 3:45 pm–5:00 pm
Breakout Room 2 (Crystal Ballroom D)

Radiation Dose and Regulation

Saturday, June 25 | 1:15 pm–2:45 pm
Breakout Room 2 (Crystal Ballroom D)

"How To" for CCTA Laboratories

Saturday, June 25 | 8:00 am–9:30 am
Breakout Room 2 (Crystal Ballroom D)

Fellows and Residents Program

Thursday, June 23 | 1:00 pm–6:30 pm
Discovery Ballroom

Technologist and Nurse Workshop

Thursday, June 23 | 2:30 pm–6:30 pm
Palani A & B

We hope you will join us for the
Brazil and Latin America Present Session
Saturday, June 25 | 6:00 pm–7:00 pm
Main Room (Oceans Ballroom 9–12)



Thursday, June 23 | 9:00 am–11:00 am

Multimodality Session — Part 1: Multimodality Evaluation of Adult Congenital Heart Disease

Chairs: B. Kelly Han, MD, FSCCT and Aloha Meave, MD

9:00 am– 9:15 am Multimodality Imaging in an Adult Patient with Tetralogy of Fallot | Aloha Meave, MD
9:15 am– 9:30 am Anomalies of Great Vessels: When Do You Choose MR, CT or ECHO? | Ian Rogers, MD, MBA, MPH, FSCCT
9:30 am– 9:45 am Coronary Anomalies: Multimodality Evaluation in a Young Patient | Ron Blankstein, MD, FSCCT
9:45 am–10:00 am Multimodality Imaging of Complex Congenital Heart Disease Patient: Pediatric and Adult | B. Kelly Han, MD, FSCCT
10:00 am–10:15 am 3-D Printing Applications in Congenital Heart Disease Patients | James Otton, MD, PhD, MBBS
10:15 am–11:00 am 3 Live Demonstrations of Interesting Cases | Aloha Meave, MD and B. Kelly Han, MD, FSCCT

Thursday, June 23 | 11:20 am–1:30 pm

Multimodality Session — Part 2: Hybrid Imaging 2016

Chairs: Paul Knaapen, MD, PhD and John Mahmarian, MD, PhD, FSCCT

11:20 am–11:40 am The Functional Significance of Coronary Stenosis | John Mahmarian, MD, PhD, FSCCT
11:40 am–12:00 pm Capabilities of Cardiac PET versus SPECT (Including Ultrafast) | Michelle Williams, MD, PhD
12:00 pm–12:20 pm When to Add CAC with Functional Imaging | Daniel S. Berman, MD, FSCCT
12:20 pm–12:40 pm Hybrid CCTA / (S)PE(C)T in (Suspected) Stable CAD | Paul Knaapen, MD, PhD
12:40 pm– 1:00 pm PET or SPECT Coronary Flow Reserve Complements CCTA Data | Ron Blankstein, MD, FSCCT
1:00 pm– 1:20 pm Risk Prediction: FFR, Plaque, Stenosis with CCTA Alone versus Hybrid PET-CT | Ibrahim Danad, MD
1:20 pm– 1:30pm Discussion

Thursday, June 23 | 2:30 pm–4:00 pm

CT in the Emergency Department — Part 1

Chairs: Harold Litt, MD, PhD and Gilbert Raff, MD, FSCCT

2:30 pm– 2:50 pm State of the Evidence and Guidelines | Gilbert Raff, MD, FSCCT
2:50 pm– 3:10 pm Building Up a Successful ED Program | Harold Litt, MD, PhD
3:10 pm– 3:30 pm Patient Selection, Preparation and Acquisition | Christopher Maroules, MD, FSCCT
3:30 pm– 4:00 pm Challenging CT Cases from the ED | Brian Ghoshhajra, MD, MBA, FSCCT

Thursday, June 23 | 4:30 pm–6:10 pm

CT in the Emergency Department — Part 2

Chairs: Harold Litt, MD, PhD and Gilbert Raff, MD, FSCCT

4:30 pm– 4:50 pm CT-Guided Clinical Management Decisions | Eric Williamson, MD, FSCCT
4:50 pm– 5:10 pm Case-Based Management Decisions | Christian Hamilton-Craig, MBBS, FSCCT
5:10 pm– 5:30 pm Stress Perfusion CT and CTA-FFR: Applicable in the ED? | Gilbert Raff, MD, FSCCT
5:30 pm– 5:50 pm Plaque Assessment: Which Features Matter? | Pal Maurovich-Horvat, MD, MPH, FSCCT
5:50 pm– 6:10 pm Cardiac CT and High-Sensitivity Troponins | Koen Nieman, MD, PhD, FSCCT

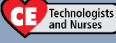
Join us Thursday, June 23, in the Exhibit Hall from 6:30 pm to 7:30 pm for the
Welcome Reception

DAY 1 | Friday, June 24

Time	Main Room (Oceans Ballroom 9–12)	Breakout Room 1 (Crystal Ballroom E)	Breakout Room 2 (Crystal Ballroom D)	Breakout Room 3 (Crystal Ballroom C)
6:30 am	Registration Desk Open Closes at 6:30 pm			
7:00 am	Exhibit Hall Open Closes at 4:00 pm			
7:00 am–8:00 am	Coffee Break in Exhibit Hall 7:00 am–7:50 am HeartFlow Symposium ¹ (Crystal Ballroom A & B)			
8:00 am–10:00 am	Opening Session Chairs: <i>Jonathon A. Leipsic, MD, FSCCT;</i> <i>James K. Min, MD, FSCCT; Leslee J. Shaw, PhD,</i> <i>FSCCT; and Harvey Hecht, MD, FSCCT</i>			
	8:00 am Welcome <i>Leslee J. Shaw, PhD, FSCCT</i> 8:20 am President's Session <i>Jonathon A. Leipsic, MD, FSCCT</i> 8:40 am Future of CVCT <i>Wm. Guy Weigold, MD, FSCCT</i> 9:00 am Top 10 Papers in CT in the Last 12 Months <i>James K. Min, MD, FSCCT</i> 9:20 am Presentation of the Arthur S. Agatston Cardiovascular Disease Prevention Award <i>Jagat Narula, MD, PhD, FSCCT</i> <i>Dr. Narula's presentation: Plaque Morphology: And Nothing Else Matters</i>			
10:00 am–11:00 am	Coffee Break in Exhibit Hall 10:00 am–10:45 am Moderated Poster Session (Exhibit Hall)			
11:00 am–12:30 pm	Patient-Centered Imaging and the Quality of CT Evidence Chairs: <i>Daniel S. Berman, MD, FSCCT and</i> <i>Wm. Guy Weigold, MD, FSCCT</i>	New Therapies, New Imaging Challenges Chairs: <i>Dominik Fleischmann, MD and</i> <i>John Lesser, MD, FSCCT</i> 	Prognosis with CT Chairs: <i>Christian Hamilton-Craig, MBBS, FSCCT</i> <i>and Amit Patel, MD</i>	Oral Abstracts I (Abstracts: 98–103) Plaque Imaging Moderator: <i>Damini Dey, PhD, FSCCT</i>
	11:00 am Current Randomized Trials Driving CT-Guided Care <i>Todd C. Villines, MD, FSCCT</i> 11:20 am Value-Based CT: Cost Effectiveness and Resource Utilization After Cardiovascular CT <i>Koen Nieman, MD, PhD, FSCCT</i> 11:40 am Which Patients Should Have CT as Their First Diagnostic Test? NICE and Beyond <i>Edward Nicol, MD, MBA, FSCCT</i> 12:00 pm Breaking Down Barriers to Appropriate Reimbursement Coverage <i>Ahmad Slim, MD, FSCCT</i> 12:20 pm Discussion	11:00 am Left Atrial Appendage Closure <i>Edward Nicol, MD, MBA, FSCCT</i> 11:20 am Left Ventricular Assist Devices and Other Circulatory Support Systems <i>Dominik Fleischmann, MD</i> 11:40 am Transcatheter Mitral Valve Procedures <i>John Lesser, MD, FSCCT</i> 12:00 pm Prosthetic Valve Complications <i>Ricardo Budde, MD, PhD</i> 12:20 pm Discussion	11:00 am Fundamentals of Risk Prediction <i>Martin Hadamitzky, MD</i> 11:20 am Estimating Life Expectancy Based on Coronary Calcium: 10–15 Year Follow-Up <i>Michael Blaha, MD, MPH</i> 11:40 am Predictive Risk Scores for CT Angiographic CAD <i>Benjamin Chow, MD, FSCCT</i> 12:00 pm Patient-Reported Outcomes Following CT: Test Preferences, Symptoms, and Quality of Life (PROMISE, CAPP...) <i>Amit Patel, MD</i> 12:20 pm Discussion	11:00 am Introduction by <i>Damini Dey, PhD, FSCCT</i> 11:15 am Quantitative Global Plaque Characteristics from Coronary CT Angiography for the Prediction of Future Cardiac Death During 5 Years of Follow-up <i>Michaela Hell, MD</i> 11:27 am Non-Culprit Lesions' Plaque Progression Detected by Coronary Computed Tomographic Angiography <i>Junjie Yang, MD</i> 11:39 am Follow-Up of Cardiac Allograft Vasculopathy in Heart Transplanted Patients with Coronary CT Angiography <i>Mihaly Karolyi, MD, PhD</i> 11:51 pm Safe Deferral of Revascularization in FFR-Negative Lesions Results from Lack of Large Low Attenuation Plaque <i>Amir Ahmadi, MD</i> 12:03 pm A Peripheral Blood Age- and Sex-Specific Gene Expression Score Is Associated With Atherosclerotic Plaque Volume by Cardiac CT-Angiography in Both Male and Female Patients: Insights From the PREDICT and COMPASS Studies <i>Sina Rahmani, MD</i> 12:15 pm Identification of Vulnerable Plaque Components Using Single-Energy CT: Histological Correlation in Autopsy Validated Cardiac Death <i>Lohendran Baskaran, MD</i>
12:30 pm–1:45 pm	Coffee Break in Exhibit Hall ² 12:45 pm–1:30 pm GE Healthcare Symposium ¹ (Crystal Ballroom A & B)			

¹Satellite Symposia are not a part of the SCCT program content as designed by the SCCT Annual Scientific Program Committee and are not approved for CME credit.²Lunch will be available for purchase.

DAY1 | Friday, June 24 (continued)

Time	Main Room (Oceans Ballroom 9–12)	Breakout Room 1 (Crystal Ballroom E)	Breakout Room 2 (Crystal Ballroom D)	Breakout Room 3 (Crystal Ballroom C)	Breakout Room 4 (Crystal Ballroom A&B)
1:45 pm–3:15 pm	Preventive Screening <i>Endorsed by the American Society for Preventive Cardiology</i> Chairs: Michael Shapiro, DO, FSCCT and Amit Khera, MD 	Emerging Techniques and Optimized Protocol Chairs: Filippo Cademartiri, MD, PhD, FSCCT and James Earls, MD, FSCCT	Hybrid Cardiovascular Imaging Chairs: Daniel S. Berman, MD, FSCCT and Ron Blankstein, MD, FSCCT	Oral Abstracts (Abstracts: 104–109) SOAR Award Moderator: Suhny Abbara, MD, FSCCT	Taking Innovation in Cardiovascular CT to the Patient: New Technological Advances <i>Endorsed by Asian Society of Cardiovascular Imaging</i> Chairs: Edward Nicol, MD, MBA, FSCCT and Yeon Hyeon Choe, MD, PhD
	1:45 pm Interventional Prevention, a System Whose Time has Come? <i>Seth Baum, MD</i> 2:05 pm The Pooled Risk Equation versus Calcium Imaging for Risk Stratification Across Diverse Populations <i>Michael Blaha, MD, MPH</i> 2:25 pm Current Applications of Calcium Scoring in Preventive Medicine: Coronary Calcium-Guided Adherence <i>Matthew J. Budoff, MD, FSCCT</i> 2:45 pm Statin Effects on Calcified and Non-Calcified Plaque <i>Harvey Hecht, MD, FSCCT</i> 3:00 pm Trials in CT-Guided Prevention (Factor-64, Robinsca, CRESCENT, and Beyond) <i>Khurram Nasir, MD, MPH, FSCCT</i>	1:45 pm New Motion Correction Algorithms <i>Daniele Andreini, MD, PhD, FSCCT</i> 1:55 pm Calcium Subtraction Techniques for CT Angiography <i>Klaus Kofoed, MD, DmSc</i> 2:05 pm Low-Tube Potential Protocols: Consequences Beyond Dose <i>Mohamed Marwan, MD</i> 2:15 pm An Update in Contrast Media and Contrast Enhancement Protocols <i>Dominik Fleischmann, MD</i> 2:25 pm Assessment of Myocardial Extra-Cellular Volume: T1 Mapping with CT? <i>Francesca Pugliese, MD, PhD</i> 2:35 pm Mobile Cardiac CT Units <i>Ronen Rubinshtein, MD</i> 2:45 pm New Opportunities with Photon Counting CT Systems <i>David Bluemke, MD, PhD</i> 2:55 pm Calcium Score Quantification from Contrast-Enhanced Scans <i>Christopher Pavitt, BSc, BMBS, MRCP</i> 3:05 pm New Opportunities with Dual-Energy CT <i>Ibrahim Danad, MD</i>	1:45 pm New Territories in CTA-Based Hemodynamics <i>James K. Min, MD, FSCCT</i> 2:05 pm Coronary Microvascular Dysfunction <i>Viviany Taqueti, MD, MPH</i> 2:25 pm PET Myocardial Blood Flow Combined with CT Angiography <i>Ron Blankstein, MD, FSCCT</i> 2:45 pm Ischemia-Guided Patient Management <i>Paul Knaapen, MD, PhD</i> 3:00 pm Cardiovascular CT in Serial Testing Protocols <i>Koen Nieman, MD, PhD, FSCCT</i>	1:45 pm Use of Coronary Computed Tomography Angiography to Guide Management of Patients with Coronary Disease in the SCOT-HEART Randomized Controlled Trial <i>Michelle Williams, MD, PhD</i> 2:00 pm Noninvasive Prediction of Fractional Flow Reserve from Coronary Computed Tomographic Angiography Using Machine Learning <i>Guanglei Xiong, MD</i> 2:15 pm Perfusion Imaging: Perfusion Parameters and Analysis Approach <i>Alexia Rossi, MD</i> 2:30 pm On-Site CT Derived FFR and Dynamic CT Myocardial Perfusion Imaging in Detection of Functional Coronary Artery Disease <i>Adriaan Coenen, MD</i> 2:45 pm Machine Learning to Predict FFR from CT and Invasive Angiography – Intended for SOAR Consideration <i>Lohendran Baskaran, MD</i> 3:00 pm Quantification of Coronary Artery Calcium on Virtual Non-Contrast Enhanced Images Derived from Dual-Energy Coronary CT Angiography <i>Rui Wang, MD</i>	1:45 pm 3-D Printing for Surgical Planning of Hypertrophic Cardiomyopathy <i>Dong Hyun Yang, MD</i> 2:00 pm 3-D Printing for Surgical Planning of Adult Congenital Heart Disease <i>Takashi Shirakawa, MD</i> 2:15 pm 3-D Printing for Training and Simulation of Coronary Angiography <i>Yasushi Koyama, MD</i> 2:30 pm CT Imaging for the Assessment of Myocardial Infarction <i>Kakuya Kitagawa, MD</i> 2:45 pm PET-CT in Coronary and Valve Disease Assessment <i>Michelle Williams, MD, PhD</i> 3:00 pm An Update on Dynamic Perfusion CT <i>Francesca Pugliese, MD, PhD</i>
3:15 pm–3:45 pm	Coffee Break in Exhibit Hall				
3:45 pm–5:00 pm	CT as a Guide to Therapeutic Decision Making for Revascularization and Optional Medical Therapy in SIHD <i>Endorsed by Society for Cardiovascular Angiography and Interventions</i> Chairs: Carlos Rochitte, MD, PhD and Arnold Seto, MD 	Read with the Experts Chairs: James Earls, MD, FSCCT and Gianluca Pontone, MD, PhD, FSCCT	Sex-Specific Differences CCTA: Defined CAD and Atherosclerosis Chairs: Patricia Carrascosa, MD, PhD, FSCCT and Viviany Taqueti, MD, MPH	Oral Abstracts II (Abstracts: 110–115) Non Contrast CT/Prognostic Evaluation Moderator: Mona Bhatia, MBBS, FSCCT	
	3:45 pm State-of-the-Evidence in Stable Ischemic Heart Disease (SIHD) <i>Arnold Seto, MD</i> 4:05 pm CT is the Gatekeeper to Revascularization <i>Carlos Rochitte, MD, PhD</i> 4:25 pm How to Manage Patients with Nonobstructive CAD <i>Edward Hulten, MD</i> 4:45 pm Stenosis, FFR and High-Risk Plaque <i>Daniel S. Berman, MD, FSCCT</i>	Faculty: <i>James Earls, MD, FSCCT</i> <i>Gianluca Pontone, MD, PhD, FSCCT</i> <i>Daniele Andreini, MD, PhD, FSCCT</i> FIRST Committee Faculty: <i>Gustavo Vazquez, MD</i> <i>Jeannie Yu, MD, FSCCT</i> <i>This session is made possible by an educational grant and in-kind support from GE Healthcare and HeartFlow. (No CME Credit offered)</i>	3:45 pm Limitations to Stress Testing in Women: How Can Cardiovascular CT Help? <i>Viviany Taqueti, MD, MPH</i> 4:05 pm Coronary Calcium Imaging in Women <i>Renee Bullock-Palmer, MD</i> 4:25 pm TAVR in Women <i>Sarah Rinehart, MD, FSCCT</i> 4:45 pm Women versus Men in Randomized CT Trials <i>Quynh Truong, MD, MPH, FSCCT</i>	3:45 pm Introduction by <i>Mona Bhatia, MBBS, FSCCT</i> 4:00 pm Number of Calcified Plaques on Non-Contrast Cardiac CT has a Better Prognostic Value Over Coronary Artery Calcium Score for Prediction of Mortality <i>Yoav Amson, MD</i> 4:12 pm Statin Therapy and Change in Calcium Density of Coronary Artery Plaque Over Time <i>Lindsey Duca, MD</i> 4:24 pm Early and Midterm Graft Patency Follow-Up After Coronary Artery Bypass Grafting with 64 Multi-Detector Computed Tomography <i>Tao Li, MD</i> 4:36 pm Prognostic Significance of Nonobstructive Left Main Coronary Artery Disease in Women versus Men: Insights from CONFIRM <i>Joe X. Xie, MD</i> 4:48 pm Association of Inflammatory Markers and Lipoprotein Particle Subclasses with Progression of Coronary Artery Calcium: The Multi-Ethnic Study of Atherosclerosis <i>Irfan Zeb, MD</i> 5:00 pm 15-Year Prognostic Value of Coronary Artery Calcium Score for Predicting All-Cause Mortality in Young Adults <i>Donghee Han, MD</i>	
5:00 pm–5:15 pm	Break				
5:15 pm–6:15 pm	Novel Technologies Chairs: Suhny Abbara, MD, FSCCT and Wm. Guy Weigold, MD, FSCCT	This session is not part of the Annual Scientific Meeting program content as designed by the SCCT Annual Scientific Meeting Program Committee. SCCT does not provide CME or CE credit for this session.			
6:15 pm–7:45 pm	2016 Gold Medal and Industry Recognition Reception Crystal Ballroom A				

DAY 2 | Saturday, June 25

Time	Main Room (Oceans Ballroom 9–12)	Breakout Room 1 (Crystal Ballroom E)	Breakout Room 2 (Crystal Ballroom D)	Breakout Room 3 (Crystal Ballroom C)
7:00 am	Registration Desk Open Closes at 6:30 pm			
7:00 am	Exhibit Hall Open Closes at 3:30 pm			
7:00 am–8:00 am	Coffee Break in Exhibit Hall 7:00 am–7:50 am Arineta Ltd. Symposium ¹ (Crystal Ballroom A&B) 7:50 am–8:00 am SCCT Business Meeting (Main Room)			
8:00 am–9:30 am	Are You Ready for the Plaque Revolution? Chairs: Amir Ahmadi, MD and Damini Dey, PhD, FSCCT	Read with the Experts Chairs: Marcio Bittencourt, MD and Christian Hamilton-Craig, MBBS, FSCCT	“How To” for CCTA Laboratories Chairs: Ralph Gentry, RT(R)(MR)(CT) and John Lesser, MD, FSCCT 	Oral Abstracts III (Abstracts: 116–121) Physiologic Imaging Moderator: Patricia Carrascosa, MD, PhD, FSCCT
	8:00 am State-of-the-Science on Coronary Atherosclerosis <i>Jagat Narula, MD, PhD, FSCCT</i> 8:20 am High Risk Plaque as Predictive of Acute Coronary Syndromes <i>Amir Ahmadi, MD</i> 8:40 am Prognostic Effectiveness of CT Angiography versus Functional Testing <i>Maros Ferencik, MD, PhD, FSCCT</i> 9:00 am Putting it All Together: Real World Application of Evidence-Based CT <i>Stephan Achenbach, MD, FSCCT</i> 9:20 am Discussion	Faculty: <i>Marcio Bittencourt, MD</i> <i>Christian Hamilton-Craig, MBBS, FSCCT</i> FiRST Committee Faculty: <i>Andrew Choi, MD</i> <i>Ravi Sharma, MD</i> <i>This session is made possible by an educational grant and in-kind support from Siemens Healthcare.</i> <i>(No CME Credit offered)</i>	8:00 am Laboratory Accreditation <i>Scott Jerome, DO, FSCCT</i> 8:20 am Workflow Optimization in the CT Laboratory <i>James Earls, MD, FSCCT</i> 8:40 am In-Hospital and Outpatient Utilization: The SCCT White Paper on Evidence <i>Kenneth Stone, MD, FSCCT</i> 9:00 am Developing Strategies for Appropriate Reimbursement <i>Vinay Malhotra, MD, FSCCT</i> 9:20 am Success Stories and Failures: Growing Your Cardiovascular CT Volume <i>Roberto Cury, MD</i>	8:00 am Introduction by Patricia Carrascosa, MD, PhD, FSCCT 8:15 am Initial Experience with a Rapid On-Site FFR-CT Algorithm: A Two-Centre Feasibility Study <i>Pal Maurovich-Horvat, MD, PhD, MPH, FSCCT</i> 8:27 am Fractal Analysis of Perfusion Imaging for Characterization of the Pathomechanical Composition in Chronic Ischemic Heart Disease <i>Florian Michalek</i> 8:39 am Monochromatic Evaluation Versus Iodine Maps for Myocardial Perfusion Assessment Using Dual Energy CT <i>Carlos Capunay, MD</i> 8:51 am The Ratio of Coronary Arterial Lumen Volume to Left Ventricle Mass on Coronary CTA Identifies Patients Prone to Vessel-Specific Ischemia Measured by Fractional Flow Reserve <i>Charles A. Taylor, PhD</i> 9:03 am Instantaneous Wave-Free Ratio Derived from Coronary Computed Tomography Angiography (iFRCT) in Evaluation of Ischemia-Causing Coronary Stenosis: Feasibility and Initial Clinical Research <i>Yue Ma, MD</i> 9:15 am Vessel Lumen Segmentation from Coronary CTA Using Deep Learning: Validation with OCT Data <i>Leo Grady, PhD</i>
9:30 am–10:30 am	Coffee Break in Exhibit Hall 9:30 am–10:15 am Moderated Poster Session (Exhibit Hall)			
10:30 am–12:00 pm	Master Debates: Imaging in Action Chairs: Hyuk-Jae Chang, MD, FSCCT and Ron Blankstein, MD, FSCCT 10:30 am Optimal Screening Includes Calcium Scanning <i>Con: Harvey Hecht, MD, FSCCT</i> <i>Pro: Matthew J. Budoff, MD, FSCCT</i> 10:50 am CT Should be the First Diagnostic Test for Coronary Artery Disease <i>Con: Paul Knaapen, MD, PhD</i> <i>Pro: Daniel S. Berman, MD, FSCCT</i> 11:10 am CT is the First Line Test for Congenital Heart Disease <i>Con: Ian Rogers, MD, MBA, MPH, FSCCT</i> <i>Pro: B. Kelly Han, MD, FSCCT</i> 11:30 am CT has Surpassed Echocardiography as the Primary Tool for Transcatheter Interventions <i>Con: Jonathon A. Leipsic, MD, FSCCT</i> <i>Pro: Suhny Abbata, MD, FSCCT</i> 11:50 am Discussion	Read with the Experts Chairs: Wm. Guy Weigold, MD, FSCCT and Pal Maurovich-Horvat, MD, MPH, FSCCT Faculty: <i>Wm. Guy Weigold, MD, FSCCT</i> <i>Pal Maurovich-Horvat, MD, MPH, FSCCT</i> FiRST Committee Faculty: <i>James Lee, MD</i> <i>Dustin Thomas, MD, FSCCT</i> <i>This session is made possible by an educational grant and in-kind support from Philips Healthcare.</i> <i>(No CME Credit offered)</i>	Invasive and Noninvasive FFR Chairs: Morton Kern, MD and Hiram Bezerra, MD  10:30 am Relevance of the Functional Stenosis Severity <i>Morton Kern, MD</i> 10:50 am PLATFORM and Beyond <i>Gianluca Pontone, MD, PhD, FSCCT</i> 11:10 am Many Avenues to CT-Derived FFR <i>U. Joseph Schoepf, MD, FSCCT</i> 11:30 am All You Need is CT: Coronary CT Angiography, FFR_{CT} and CT Perfusion <i>Ricardo C. Cury, MD, FSCCT</i> 11:50 am On-Site Performed CTA-FFR: A Status Update <i>Koen Nieman, MD, PhD, FSCCT</i>	Oral Abstracts (Abstracts: 227–231) Young Investigator Award Moderator: Ronald Karlsberg, MD, FSCCT 10:30 am Introduction by Ronald Karlsberg, MD, FSCCT 10:45 am CCTA Reproducibility of Coronary Plaque Volume: Sample Size Implications for Clinical Trials <i>Rolf Symons, MD</i> 11:00 am Are There Gender Differences in Quantitative Coronary Stenosis Parameters for the Prediction of Hemodynamically Significant Lesions and in Plaque Characteristics by Coronary Computed Tomography Angiography? <i>Fabian Plank, MD</i> 11:15 am CT-Derived FFR: Computational Fluid Dynamics Versus Machine Learning <i>Christian Tesche, MD</i> 11:30 am Coronary CT Angiography Derived Quantitative Markers for the Prediction of In-Stent Restenosis as Defined by Quantitative Coronary Angiography <i>Christian Tesche, MD</i> 11:45 am Discussion
12:00 pm–1:15 pm	Coffee Break in Exhibit Hall ² 12:15 pm–1:00 pm Siemens Healthcare Symposium ¹ (Crystal Ballroom A & B) 12:15 pm–1:00 pm Toshiba Symposium ¹ (Discovery Ballroom)			

¹Satellite Symposia are not a part of the SCCT program content as designed by the SCCT Annual Scientific Program Committee and are not approved for CME credit.

DAY 2 | Saturday, June 25 (continued)

Time	Main Room (Oceans Ballroom 9–12)	Breakout Room 1 (Crystal Ballroom E)	Breakout Room 2 (Crystal Ballroom D)	Breakout Room 3 (Crystal Ballroom C)
1:15 pm–2:45 pm	CT Jeopardy Chair: <i>Todd C. Villines, MD, FSCCT</i>	Targeting Our Priority Populations for CT Angiography Chairs: <i>Jonathon A. Leipsic, MD, FSCCT</i> and <i>Martin Hadamitzky, MD</i>	Radiation Dose and Regulations Chairs: <i>Mahadevappa Mahesh, MS, PhD, FSCCT</i> and <i>Gilbert Raff, MD, FSCCT</i> 	Oral Abstracts IV (Abstracts: 232–237) Coronary CTA Acquisition & Injection Protocols/Novel Hardware Moderator: <i>Brian Ghoshhajra, MD, MBA, FSCCT</i>
	Faculty: <i>Stephan Achenbach, MD, FSCCT</i> <i>John Lesser, MD, FSCCT</i> <i>Ricardo C. Cury, MD, FSCCT</i> FiRST Committee Faculty: <i>James Lee, MD</i> <i>Ravi Sharma, MD</i> <i>Irfan Zeb, MD</i>	1:15 pm Update on the Appropriate Use Criteria: Do the Indications Reflect the Evidence? <i>Jill Jacobs, MD</i> 1:35 pm Long-Term Prognosis of Cardiovascular CT in Diabetics <i>Martin Hadamitzky, MD</i> 1:55 pm Predictive Value in Patients with Nonobstructive CAD: Is High Risk Plaque the Answer? <i>Maros Ferencik, MD, PhD, FSCCT</i> 2:15 pm Secondary Analyses from Major Clinical Trials: What Have We Learned? <i>Michelle Williams, MD, PhD</i> 2:35 pm Discussion	1:15 pm A Realistic View of Health Risk Associated with Radiation from Diagnostic Imaging <i>Gilbert Raff, MD, FSCCT</i> 1:35 pm The Evolution of Cardiac CT Dose: Low, Lower, Lowest <i>Mahadevappa Mahesh, MS, PhD, FSCCT</i> 1:55 pm The Value of a National Dose Survey <i>Edward Nicol, MD, MBA, FSCCT</i> 2:15 pm How to Achieve the Lowest Dose in the Individual Patient <i>Filippo Cademartiri, MD, PhD, FSCCT</i> 2:35 pm Discussion	1:15 pm Introduction by <i>Brian Ghoshhajra, MD, MBA, FSCCT</i> 1:30 pm The Image Quality and Radiation Dose of Turbo High-Pitch Dual-Source CT Coronary Angiography in Patients with Free-Breathing, Free Heart Rate and Any Body Mass Index: An Analysis Based on a Data of 1179 Patients <i>Sun Kai, MD</i> 1:42 pm Coronary CT Angiography in Single Cardiac Cycle in Patients with High Heart Rates Using 256-Detector Row CT: Preliminary Study <i>Junfu Liang, MD</i> 1:54 pm The Effect of Quad- versus Tri-Phasic Contrast Media Injection Protocol on the Extravasation Rate During Coronary CT Angiography: A Randomized Controlled Trial <i>Julia Karady, MD</i> 2:06 pm Diagnostic Performance of a Novel Intracycle Motion Compensation Algorithms in Coronary Computed Tomographic Angiography: Results from the Prospective Multicenter VICTORY Trial (Validation of an Intracycle CT Motion CORrection Algorithm for Diagnostic Accuracy) Trial <i>Fay Lin, MD</i> 2:18 pm Prototype Ultra-High-Resolution Cardiac CT Angiography: First Impressions of 0.25mm Detector Width for Coronary Evaluation <i>Jeannie H. Yu, MD, FSCCT</i> 2:30 pm Quantification of Left Ventricular Blood Flow using Cardiac CT-Based Computational Fluid Dynamic Modeling: A Novel Approach for Prediction of Left Ventricular Thrombus Development <i>Thura T. Abd, MD</i>
2:45 pm–3:00 pm	Coffee Break in Exhibit Hall Exhibit Hall closes at 3:30 pm			
3:00 pm–4:15 pm	Myocardial Ischemia, Infarction and Fibrosis Chairs: <i>Joao A. C. Lima, MD, MBA, FSCCT</i> and <i>Hyuk-Jae Chang, MD, FSCCT</i>	Congenital Heart Disease Chairs: <i>B. Kelly Han, MD, FSCCT</i> and <i>Eric Williamson, MD, FSCCT</i>	Tough Candidates, Challenging Conditions Chairs: <i>Edward Nicol, MD, MBA, FSCCT</i> and <i>Filippo Cademartiri, MD, PhD, FSCCT</i> 	Oral Abstracts V (Abstracts: 238–243) Structural and Valvular Heart Disease/ Acute Chest Pain/Other Moderator: <i>Mark Rabbat, MD, FSCCT</i>
	3:00 pm CT Perfusion Imaging: Is it Ready for Prime Time? <i>Carlo De Cecco, MD, PhD, FSCCT</i> 3:20 pm Dynamic CT Perfusion Imaging: More Value or More Dose? <i>Kakuya Kitagawa, MD</i> 3:40 pm Myocardial Infarction and Viability <i>Kelley Branch, MD, MS, FSCCT</i> 4:00 pm Diffuse Myocardial Fibrosis Imaging: A T1-Mapping Equivalent? <i>David Bluemke, MD, PhD</i>	3:00 pm CT for ACHD: The SCCT Consensus Statements <i>B. Kelly Han, MD, FSCCT</i> 3:20 pm Modern Scan Protocols for ACHD <i>Eric Williamson, MD, FSCCT</i> 3:40 pm When to do CT in Pediatric Congenital Heart Disease <i>John Lesser, MD, FSCCT</i> 4:00 pm Optimizing Cardiovascular CT in Adult and Pediatric Cardiac Patients <i>Anthony Hlavacek, MD</i>	3:00 pm Imaging Coronary Arteries in the Setting of Aortic Stenosis <i>Francesca Pugliese, MD, PhD</i> 3:20 pm The Challenging Patient <i>U. Joseph Schoepf, MD, FSCCT</i> 3:40 pm Effective Heart Rate Control and Arrhythmias <i>Wm. Guy Weigold, MD, FSCCT</i> 4:00 pm Imaging of Spontaneous Coronary Artery Dissection <i>Brian Ghoshhajra, MD, MBA, FSCCT</i>	3:00 pm Introduction by <i>Mark Rabbat, MD, FSCCT</i> 3:15 pm Leaflet Thrombosis Following Transcatheter Aortic Valve Implantation: Insights from a Single Center Experience <i>Mohamed Marwan, MD</i> 3:27 pm Preoperative Cardiac CT Evaluation Before Leipzig Loop Repair: Intra-individual Comparison with Intra-surgical Measurements <i>Moritz H. Albrecht, MD</i> 3:39 pm Serial Highly Sensitive Troponin Improves Predicted Efficiency of Advanced Cardiac Testing in Patients With Suspected Acute Coronary Syndrome: Results from the ROMICAT II Trial <i>Maros Ferencik, MD, PhD, FSCCT</i> 3:51 pm Real World Use of Coronary Computed Tomography in the Emergency Department <i>Benjamin Ebner, MD</i> 4:03 pm Unbiased Mass-Spectrometry-Based Metabolomics Profiling in Over 1,000 Patients Reveals Specific Abnormalities in Biochemical Pathways in Patients with Atherosclerosis, as Defined by Cardiovascular CT-based Precision Phenotyping in the Multi-center GLOBAL Clinical Study <i>Gustavo Vazquez, MD</i> 4:15 pm Association Between Adiponectin and the Characteristics of Plaques Detected by Coronary CTA in an Asymptomatic Population <i>Lu Gan, MD</i>
4:15 pm–4:30 pm	Break			

DAY 2 | Saturday, June 25 (continued)

Time	Main Room (Oceans Ballroom 9-12)	Breakout Room 1 (Crystal Ballroom E)
4:30 pm-6:00 pm	Team Spirit Chair: <i>Stephan Achenbach, MD, FSCCT</i>	
	Faculty: <i>Suhny Abbata, MD, FSCCT</i> <i>Ricardo C. Cury, MD, FSCCT</i> <i>Wm. Guy Weigold, MD, FSCCT</i> <i>John Lesser, MD, FSCCT</i> Referee: <i>Jonathon A. Leipsic, MD, FSCCT</i>	
6:00 pm 7:00 pm	Brazil and Latin America Present Chairs: <i>Patricia Carrascosa, MD, PhD, FSCCT</i> <i>and Erick Alexanderson, MD</i> 	
	6:00 pm DECT Anatomic-Functional Evaluation <i>Patricia Carrascosa, MD, PhD, FSCCT</i> 6:10 pm Dynamic Stress Myocardial Perfusion by CT <i>Roberto Cury, MD</i> 6:20 pm Coronary CTA Reduces the Rate of MI: Reappraisal of SCOT-HEART, PROMISE and CAPP Trials <i>Marcio Bittencourt, MD</i> 6:30 pm CT Role in Congenital Heart Disease <i>Aloha Meave, MD</i> 6:40 pm Best Abstract #1 <i>To be announced on-site</i> 6:50 pm Best Abstract #2 <i>To be announced on-site</i>	

SCCT 2017

12th Annual Scientific Meeting of the Society of Cardiovascular Computed Tomography

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DAY 3 | Sunday, June 26

Time	Main Room (Oceans Ballroom 9–12)	Breakout Room 2 (Crystal Ballroom D)	Breakout Room 3 (Crystal Ballroom C)
7:30 am–8:00 am	Coffee Break in Foyer		
8:00 am–9:30 am	Watch the Experts Read Unknown Cases Chair: <i>Stephan Achenbach, MD, FSCCT</i>	Multimodality Imaging in TAVI Chairs: <i>Jonathon A. Leipsic, MD, FSCCT and Edward Nicol, MD, MBA, FSCCT</i> 	Developing a Screening Program Using CAC: Part 1 Chairs: <i>Michael Shapiro, DO, FSCCT and Joao A.C. Lima, MD, FSCCT</i>
	Faculty: <i>Wm. Guy Weigold, MD, FSCCT</i> <i>Ricardo C. Cury, MD, FSCCT</i> <i>John Lesser, MD, FSCCT</i> <i>Quynh Truong, MD, MPH, FSCCT</i>	8:00 am Spectrum of Findings on Valvular Heart Disease <i>Suhny Abbbara, MD, FSCCT</i> 8:20 am CT in Transcatheter Mitral Valve Implantation <i>Jonathon A. Leipsic, MD, FSCCT</i> 8:40 am Use of TTE and TEE to Guide Valvular Heart Disease Interventions <i>Mark Rabbat, MD, FSCCT</i> 9:00 am The Role of CMR in Valvular Heart Disease Interventions <i>Seth Uretsky, MD</i> 9:20 am Discussion	8:00 am Where is the Evidence for Calcium Screening? <i>Harvey Hecht, MD, FSCCT</i> 8:20 am Nuts and Bolts of Running a Screening Program <i>Tracy Q. Callister, MD, FSCCT</i> 8:40 am Agatston Methodology in the Era of Low-Kv Imaging <i>Damini Dey, PhD, FSCCT</i> 9:00 am Screening for Calcium, Atherosclerosis and Beyond <i>Amir Ahmadi, MD</i> 9:20 am Discussion
9:30 am–10:00 am	Coffee Break in Foyer		
10:00 am–11:30 am	CCTA in Health Policy <i>Endorsed by American College of Radiology</i> Chairs: <i>Leslee J. Shaw, PhD, FSCCT and Suhny Abbbara, MD, FSCCT</i> 	CCTA in the Revascularized Patient Chairs: <i>Gianluca Pontone, MD, PhD, FSCCT and Koen Nieman, MD, PhD, FSCCT</i>	What to Do With Calcium Scan Results: Part 2 Chairs: <i>Amit Pursnani, MD and Harvey Hecht, MD, FSCCT</i>
	10:00 am Research Driving Necessity and Coverage Policies <i>Ahmad Slim, MD, FSCCT</i> 10:20 am Guiding Clinical Management: CAD-RADS <i>Ricardo C. Cury, MD, FSCCT</i> 10:40 am Changing Guidelines and Appropriateness Criteria <i>Todd C. Villines, MD, FSCCT</i> 11:00 am Driving Efficient, Effective and Safe Use of CCTA <i>Ronen Rubinshtein, MD</i> 11:20 am Discussion	10:00 am Imaging Stents with CCTA <i>Ronen Rubinshtein, MD</i> 10:20 am CT After Bypass Graft Surgery <i>Benjamin Chow, MD, FSCCT</i> 10:40 am CT Measures of LV Function and Volumes <i>Darra Murphy, MD</i> 11:00 am Functional CT After Revascularization <i>Kheng-Thye Ho, MD, FSCCT</i> 11:20 am Follow-Up of Bioabsorbable Coronary Scaffolds <i>Koen Nieman, MD, PhD, FSCCT</i>	10:00 am Optimal Patient Selection with the New Risk Calculator <i>Amit Pursnani, MD</i> 10:20 am Helping the Primary Care Physician Manage Their At-Risk Patient <i>Michael Shapiro, DO, FSCCT</i> 10:40 am Calcium Scoring Improves Patient Compliance <i>Matthew J. Budoff, MD, FSCCT</i> 11:00 am Calcium Screening Combined with Lung Screening <i>Harvey Hecht, MD, FSCCT</i> 11:20 am Discussion on Current Approaches to Reimbursement
11:30 am–11:40 am	Coffee Break in Foyer		
11:40 am–1:00 pm	A Vision for the Future Chairs: <i>Wm. Guy Weigold, MD, FSCCT; Leslee J. Shaw, PhD, FSCCT and Jonathon A. Leipsic, MD, FSCCT</i>		
	11:40 am Meeting Highlights <i>Koen Nieman, MD, PhD, FSCCT; Maros Ferencik, MD, PhD, FSCCT and Edward Nicol, MD, MBA, FSCCT</i> 12:00 pm SCCT2016 Awards <i>Leslee J. Shaw, PhD, FSCCT and Jonathon A. Leipsic, MD, FSCCT</i> 12:20 pm Growing the Pool of Highly Qualified Cardiovascular CT Specialists <i>John Lesser, MD, FSCCT</i> 12:40 pm Where Will We Go in 2016? <i>Leslee J. Shaw, PhD, FSCCT</i>		

Friday, June 24 | 10:00 am–10:45 am

**Poster Session I
Acute Chest Pain
Abstracts 1-4**

- 1 David Bittner, MD**
Coronary CTA Specific Definitions of High-risk Plaque Features Optimized for the Detection of ACS: Results from the Romicat II Trial
- 2 Marisa Lubbers, MD**
Coronary CT Angiography for Suspected Acute Coronary Syndrome: 24/7 Experience
- 3 Ting Liu, MD**
Quantitative Coronary Plaque Analysis Predicts High-Risk Plaque Morphology on Coronary Computed Tomography — the Results from the ROMICAT II Trial
- 4 Nandini M. Meyersohn, MD**
Detection of Cardiac Anomalies in Emergency Department Patients Evaluated with Coronary CT Angiography

**Poster Session II
Cardiomyopathies and Assist Device
Abstracts 5-11**

- 5 Suyon Chang, MD**
Utility of Dual-energy Computed Tomography-based Monochromatic Imaging for the Assessment of Myocardial Delayed Enhancement in Cardiomyopathies
- 6 Hasan Rehman, MD**
Incidence of Aortic Root Thrombosis Detected by ECG Gated Multi-detector Computed Tomography (MDCT) Scans in Patients with Left Ventricular Assist Devices
- 7 Diego Medvedofsky, MD**
Variations in Cannula Position by Cardiac Computed Tomography in Patients with Sub-optimal Left Ventricular Assist Device Function
- 8 Carlos E. E. Prazeres, MD**
The Use of Coronary Computed Tomography Angiography in the Emergency Room: The Rapid Exclusion of Coronary Disease and the Fast Diagnosis of Acute Myocarditis Using Late Enhancement by Computed Tomography
- 9 Sebadtian Reinartz, MD**
Metal Artifact Reduction of Ventricular Pacemaker Leads in Cardiac CT by Using Dual Energy, Dual Source CT and Pacemaker Lead Tip Positioning
- 10 Colin Chong Yew Lim, MD**
CT Scan Technique for Evaluating LVAD in Singapore General Hospital
- 11 Bill C. Tran, MD**
Utility of Contrast CT for the Diagnosis and the Prognosis of Suspected LVAD Thrombosis: A Single Center 6-year Experience

**Poster Session III
Comparative/Multimodality Imaging/Resource Utilization
Abstracts 12-14**

- 12 Affan Haleem, MD**
Transthoracic Echocardiography Leads to Underestimation of Aortic Valve Area in Patients with Aortic Stenosis
- 13 John Younger, MD**
Impact of Reimbursement for CT Coronary Angiography Upon Utilization of Other Cardiac Tests in Australia
- 14 Veit Sandfort, MD**
High Pitch Third Generation Dual-source CT: Coronary and Cardiac Visualization on Routine Chest CT

**Poster Session IV
Congenital Heart Disease
Abstracts 15-27**

- 15 Omar Daniel Garcia, MD**
 Agatston Score in Adult Patients with Congenital Heart Disease with and without Pulmonary Arterial Hypertension
- 16 Akira Kurata, MD**
3-D Simulation of Pulmonary Artery Surgery in Children with Congenital Heart Disease using CT/CT Image Fusion and 3-D Rapid Printing: Description of the Technology and Case Report
- 17 B. Kelly Han, MD, FSCCT**
Risk and Accuracy of Cardiovascular CT for Evaluation of Single Ventricle Anatomy Prior to Second Stage Palliation
- 18 Tao Li, MD**
The Application of High-pitch Spiral Dual-source Computed Tomography in Patients with Congenital Heart Disease: Image Quality, Radiation Dose, Accuracy of the Diagnosis, Coronary Artery Abnormal Origin and Course
- 19 Benjamin Ebner, MD**
Prevalence and Characteristics of Coronary Arteries with Anomalous Origin in High Versus Low Acuity Settings
- 20 Abstract Withdrawn**
- 21 Daniel W. Groves, MD**
Feasibility of Low Radiation Dose Retrospectively-gated Cardiac CT for Functional Analysis in Congenital Heart Disease
- 22 Dipankar Gupta, MD**
Cardiac Computed Tomographic Angiography (CTA) as Primary Decision Making Tool for Management of Patients with Tetralogy of Fallot (TOF) and Pulmonary Atresia (PA)

- 23 B. Kelly Han, MD, FSCCT**
Safety and Accuracy of Cardiovascular Computed Tomography for Evaluation of Single Ventricle Heart Disease after Fontan Palliation

- 24 Tiago Senra, MD**
Diagnosis of ARCAPA by Multidetector Computed Tomography

- 25 Carlos Rochitte, MD, PhD**
 Partial Unroofed Coronary Sinus as an Unusual Finding in a Young Patient Under Investigation of Progressive Fatigue

- 26 Carlos Rochitte, MD, PhD**
 Anomalous Right Coronary Artery from Pulmonary Artery (ARCAPA) as an Incidental Finding in an Octogenarian Patient Under Investigation of Chest Pain

- 27 Negin Nezarat, MD**
Patent Ductus Arteriosus Closure Device Size Determination Using CTA: An Effective Way for Pre-operative Evaluation

**Poster Session V
Contrast/Injection Protocols
Abstracts 28-34**

- 28 Bettina M. Gramer, MD**
Standardization and Optimization of CTA of the Aorta for the Calculation of the Bolus Timing and the Amount of Contrast Agent
- 29 Xiangying Du, MD**
An Open Label, Prospective, Multicentre, Non-interventional Study of Iodixanol 270 mg I/mL for Use in Subjects Undergoing Computed Tomographic Angiography (CTA) Examinations in Clinical Practice
- 30 S. Zaheeruddin, MD**
Safety of Ultra-low Dose Contrast Injection CTA Immediately Following Cardiac Catheterization for Aortoiliac femoral Assessment in TAVR Evaluation
- 31 Michael A. Winkler, MD, FSCCT**
The Use of Intraosseous Needles for Injection of Iodinated Contrast Media for Computed Tomographic Angiography of the Thorax
- 32 Marco Das, MD, PhD**
Effects on Intra-Coronary Attenuation Using Low Iodine Concentrations and High Flow Rates While Maintaining Identical IDR (EICAR-Trial)
- 33 Connor W. Woodward, MD**
Does Site of Intravenous Access for Contrast Administration for Thoracic Computed Tomographic Angiography Influence Quality?
- 34 Alexander R. Kingsbury, MD**
Can Chest Width be Used as a Surrogate for Weight for Selection of Contrast Injection Rate for Computed Tomographic Angiography?

**Poster Session VI
Coronary CTA Acquisition Protocols and Quality Control
Abstracts 35-41**

- 35 Muhammad Aamir Latif, MD**
CAD-RADS Classification for Coronary Artery Disease: Interobserver Variability and Validation in a Busy Cardiac Imaging Practice

- 36 Gaston A. Rodriguez-Granillo, MD, PhD**
 Diagnostic Performance of Half Iodine Load CT Coronary Angiography Using Virtual Monochromatic Imaging Derived from Dual Energy CT

- 37 Abstract Withdrawn**

- 38 Markus Göller, MD**
 Influence of Software-based Motion Compensation on Image Quality in Coronary CT Angiography Using High Temporal Resolution CT Systems

- 39 Zixu Yan, MD**
Comparison of Radiation Dose and Image Quality in Cardiac CT for Volumetric 256-Detector Row, Helical Row, and Noncontiguous Axial Scan Acquisitions

- 40 John Londt, MD**
Clinical Data Analysis of Heart Rate Dependent Cardiac Scan Prescription

- 41 Natalie Gartland, MD**
Paediatric Cardiac CT Optimisation — Real World Results from a 4 Year CT Dose and Image Optimisation Program

**Poster Session VII
Coronary CTA Patient Preparation-HR Control
Abstract 42**

- 42 Michael S. Stagliano, CRNP**
How Safe is Coronary CT Angiography?

**Poster Session VIII
Coronary CTA-Radiation Exposure
Abstracts 43-49**

- 43 Andrea Knab, MS**
Dramatic Radiation Dose Reduction Over 7 Years of Experience for Coronary CT Angiography

- 44 Prabhjot Nijjar, MD**
Reduction in Radiation Exposure with Coronary Computed Tomography Over Seven Years in a Real World Setting

- 45 Andrea D. Annoni, MD**
Low Dose Computed Tomography Angiography for Evaluation of the Thoracic Aorta and Coronary Arteries Using 160 mm Detector Coverage and Iterative Reconstruction Algorithm

- 46 Sergio Dromi, MD**
Reduction in Patient Radiation Exposure During Cardiac Computed Tomography

- 47 Bradley J. Petek, BS**
Radiation Dose and Cancer Risk Reduction with Modern 160mm Scanners in Cardiac Computed Tomography

- 48 John Younger, MD**
Radiation Dose Comparison of Computed Tomography Coronary Angiography and Invasive Angiography in Obese Patients

- 49 Sloane McGraw, MD**
Feasibility of Ultra Low-Dose Coronary CTA

**Poster Session IX
CTA in Non-Acute Chest Pain
Abstracts 50-70**

- 50 James J. Jang, MD**
The Impact of Fractional Flow Reserve Derived from Coronary Computed Tomography Angiography in a Managed Healthcare System — Kaiser Permanente Northern California

- 51 Nam Ju Lee, MD**
Measurement Related Differences in Coronary Sinus Distance on Pre-TAVR CTA

- 52 Rene R. S. Packard, MD**
Fractional Flow Reserve Computerized Tomography Outperforms Coronary CT Angiography in Calcified Arteries and Predicts Subsequent Coronary Revascularization: A Real-World Experience

- 53 Christopher Saunderson, MD**
Role of Coronary Computed Tomography Angiography in Chest Pain Evaluation: A Comparison to Nice Guidelines

- 54 Kristof De Smet, MD**
FRct for the Non-invasive Assessment of Ischemia in Patients with Malignant Anomaly of the Right Coronary Artery

- 55 Jiayin Zhang, MD**
Calcification Characterization by Cardiac CT to Predict the use of Rotational Atherectomy for Coronary Intervention in Moderately and Severely Calcified Lesions

- 56 Yushiaki Ohyama, MD**
Determinants of Coronary Artery Distensibility Assessed by CT: The Core 64 Multicenter Study

- 57 Yang Gao, MD**
Progression of Coronary Artery Calcium and Coronary Artery Stenosis: Evaluated by Cardiac Computed Tomography

- 58 Munemasa Okada, MD**
The Effect of Nitroglycerin for Fractional Flow Reserve from CT in Intra-individual Study

- 59 Nasim Sheidaee, MD**
Coronary Artery Ectasia Relationship with Subclinical Atherosclerosis

- 60 Julia Karady, MD**
The Association Between Regular Alcohol Consumption and the Presence of Coronary Atherosclerosis

- 61 Song Shou Mao, MD**
Age-specific Reference Values of Left Ventricular Myocardium are Necessary for Men, Not for Women: A Population-based Retrospective CT Angiographic Study

- 62 Song Shou Mao, MD**
Overweight and Obesity Affect the Cardiac Remodeling in Subjects Free Heart Disease and Hypertension

- 63 Tao Li, MD**
The Application of MDCT in the Patients with Isolated Spontaneous Superior Mesenteric Artery Dissection: Diagnosis, Classification and Follow Up

- 64 Andrew Chen, MD**
Comparison of the Negative Prognostic Value of Coronary Computerized Tomography Angiography, Stress Echocardiography and Myocardial Perfusion Imaging

- 65 Jie Sheng Foo, MD**
Incidence of Coronary Artery Bridging by Computed Tomographic Coronary Angiography

- 66 Rahul G. Muthalaly, MD**
Epicardial Adipose Tissue Volume Does Not Predict Flow-Limiting Coronary Disease

- 67 Hunain Shiwani, MD**
Influence of Ethnicity and Menopausal Status on the Degree of Coronary Artery Disease Seen on Computed Tomography Angiography in Females

- 68 Natsko Mukai, MD**
Prevalence of Delayed Enhancement in Low to Intermediate Coronary Artery Disease Risk Patients Using Single Source Dual-energy CT

- 69 Balint Szilveszter, MD**
Sleep Length and Its Association with the Presence and Extent of Coronary Artery Disease

- 70 Song Shou Mao, MD**
Remodeling of the Whole Heart and left Ventricular Mass, and Impairment of Biventricular Systolic Function in Patients with Advanced Congestive Heart Failure

Friday, June 24 | 10:00 am–10:45 am (continued)

Poster Session X**EP/Arrhythmia**
Abstracts 71-72

- 71 Mark Rabbat, MD, FSCCT**
Epicardial Adipose Tissue Inflammation is Associated with Atrial Fibrillation
- 72 Victor Cheng, MD, FSCCT**
Clinical Relevance of Reporting Major Coronary Segment Stenotic Disease from Prospectively Acquired End-systolic Contrast-enhanced CT Imaging Intended for Left Atrial and Pulmonary Vein Assessment Before Ablation to Treat Atrial Fibrillation

Poster Session XI**Non-Contrast Cardiac CT: Coronary Calcium**
Abstracts 73-97

- 73 Nada Sulaiman, MD**
In-Person Comparison of Low-Dose Coronary Artery Calcium Scoring Using a Low Tube Current Technique and Hybrid Iterative Reconstruction Vs. Standard Filtered Back Projection
- 74 Muhammad Aamir Latif, MD**
Relationship of Thoracic Aorta Diameter with Presence and Severity of Thoracic Aortic Calcification — the Multi-Ethnic Study of Atherosclerosis (MESA)
- 75 Nasin A. Ahmed, MD**
The Prevalence and Extent of Coronary Artery Disease Among Patients with a Zero Calcium Score
- 76 Asim Rizvi, MD**
Usefulness of Coronary Artery Calcium Scoring for Estimating Vascular Age in Current and Never Smokers
- 77 Felipe Soares Torres, MD**
Performance of Ultra Low Dose Computed Tomography for the Evaluation of Coronary Calcification: A Direct Comparison with Coronary Calcium Score
- 78 Jelmer Wolterink, MD**
Low-dose Coronary Calcium Scoring with Model-based Iterative Reconstruction
- 79 Elizabeth Nett, PhD**
Calcium Scoring Accuracy in Reduced Dose CT via Iterative Reconstruction
- 80 Luke Seibolt, MD**
Role of Statin Therapy in Patients without Evidence of Coronary Artery Disease by Cardiac Computed Tomography
- 81 Abstract Withdrawn**
- 82 Jasmeet Singh, MD**
Varying Kv and Calcium Volume — A Multivendor Study
- 83 Sebastian D. Reinartz, MD**
Association Between Aortic Valve Calcification (AVC) and Epicardial Fat Tissue (EAT)
- 84 Hong Qi, MD**
The Prevalence and Severity of Valve Calcification in Patients with Maintenance Hemodialysis
- 85 Adel H. A. Allam, MD**
Coronary and Whole Body Arterial Calcium Measurement in Patients with No Known CAD and Normal MPI, Incidence and Distribution of Pre-clinical Atherosclerosis
- 86 Anjali Srivastava, DO**
Computed Tomography Aortic Valve Calcium Scores in Patients with Low Gradient Preserved Ejection Fraction Aortic Stenosis
- 87 Yonathan Litwok, MD**
Coronary Arterial Calcium Burden Limits the Accuracy of Coronary CT Angiography Compared to Traditional Invasive Angiography
- 88 Naoki Fukuyama, MD**
The Influence of Model-Based Iterative Reconstruction on Coronary Artery Calcium Scoring in Comparison with Filtered Back Projection

- 89 Anusha Sunkara, MD**
Coronary Artery Calcium Scoring (CACS) in Patients with Chronic Kidney Disease in the Setting of Atrial Fibrillation — Is There a Relationship?
- 90 Jonas Schmöe, MD**
Association Between Epicardial Adipose Tissue (EAT) and Cardiac Calcifications in Patients with Moderate Renal Insufficiency — A Bicentric Evaluation of the Carvida Cohort
- 91 William L. Blanchet, MD**
The Effect of Bile Acid Sequestrants on Progression of Coronary Arterial Calcification
- 92 Abstract Withdrawn**
- 93 Song Shou Mao, MD**
Worsening of Coronary Atherosclerosis and Improvement of Bone Mineral Density in Obese Population
- 94 Negin Nezarat, MD**
Timing of Hormone Replacement Therapy and Coronary Artery Calcium Progression: the Multi Ethnic Study of Atherosclerosis
- 95 Lilia Mercedes Sierra-Galan, MD, FSCCT**
 Is Coronary Calcium Score Able to Identify High-Grade Coronary Artery Stenosis in All Women Independent of Age and Ethnicity in Hispanic Non-US population?
- 96 Ji Hyun Lee, MD**
Assessing the Predictive Value of Coronary Artery Calcium Scoring According to Renal Function: from the Confirm Registry (Coronary Computed Tomography Angiography Evaluation for Clinical Outcomes: An International Multicenter Registry)
- 97 Sinan Sarsam, MD**
Coronary Computed Tomographic Angiography and Diastolic Dysfunction

Saturday, June 25 | 9:30 am–10:15 am

Poster Session XII
LV/RV Function, Chamber Dimensions
Abstracts 122-126

- 122 Tony Mathews, MD, MPH**
Characterization of Right Ventricular Ejection Fraction in Patients with Severe Aortic Stenosis Using MDCT
- 123 Edward Passen, MD, FSCCT**
Cardiac Computed Tomography Revisiting the Echocardiography Guidelines for Evaluation of Inferior Vena Cava Assessment of Right Atrial Pressure
- 124 Yuki Tanabe, MD**
Characterization of Reference Values of Left Ventricular Maximum Principal Strain by Cardiac Computed Tomography
- 125 Sina Rahmani, MD**
Evaluation of Left Atrial Volume and Left Ventricular Volume and Mass by Cardiac CT in HIV-infected and HIV-uninfected Males: Results from the Multicenter Aids Cohort Study (MACS)
- 126 Kazuhiro Osawa, MD, PhD**
Cardio-ankle Vascular Index (CAVI) May be an Early Marker of Left Ventricular Diastolic Dysfunction Detected by Multi-detector Computed Tomography in the Young

Poster Session XIII
Noncardiac Findings
Abstracts 127-130

- 127 Emilio Fentanes, MD**
Epicardial Fat Volume Index and Coronary Artery Disease Severity in NAFLD: A Prospective Prevalence Study
- 128 Vladimir Lakhter, MD**
Outcomes in Patients with Significant Extra-cardiac Findings Discovered on Computed Tomography During Workup for Trans-catheter Aortic Valve Replacement
- 129 Tarik Nabil, MD**
Aberrant Right Subclavian Artery, A Rare Extra Cardiac Finding in MSCT that Can Explain Chest Pain: A Case Report
- 130 Ling Lin, MD**
Increased Abdominal Visceral Adiposity is Associated with Unsuspected Pulmonary Embolism in Hospitalized Patients with Malignant Digestive Tract Tumors

Poster Session XIV
Novel Hardware/Technology
Abstracts 131-146

- 131 Pengyu Li, MD**
One-stop Evaluation of the Whole Heart Using the 3rd Generation Dual Source CT: Feasibility, Image Quality and Radiation Dose

- 132 Jeanette Soon, MD**
Automated kV Assist and Smart mA Perform as well as Manual Parameter Selection in Coronary Computed Tomography Angiography (CCTA) — A Prospective, Randomised Comparison
- 133 Sadako Motoyama, MD**
Assessability of Coronary Artery Stent Patency Using Ultra-high-resolution Computed Tomography
- 134 Sujata M. Shanbhag, MD**
Prototype Ultra-High-Resolution Cardiac CT Angiography: Initial Experience
- 135 Pal Maurovich-Horvat, MD, PhD, FSCCT**
Simmelweis Cardiac CT Registry: Structured Reporting and Automated Registry Generation in the Daily Routine
- 136 Robbert W. van Hamersvelt, MD**
Accuracy of Gadolinium Quantification Using Dual Layer Detector Spectral CT: A Phantom Study

- 137 Gabriel C. Camargo, MD**
 Beam Hardening Artifact and Iodine Contrast Behaviour on Dual-Energy Computed Tomography in Vitro: Implications for Myocardial Perfusion Imaging

- 138 James Lee, MD**
Heart Rate and Coronary Artery Motion Artifacts in Patients Undergoing Transcatheter Aortic Valve Replacement (TAVR) Planning CT Using a 16 cm, 256-Multidetector CT Scanner
- 139 Balint Szilveszter, MD**
Clinical Experience with Radiation Dose Exposure and Image Quality on Second and Third Generation Dual Source CT Systems Utilizing an Institutional Scan Protocol

- 140 Gabriel C. Camargo, MD**
 Evaluation of a Novel Beam Hardening Reduction Technology for Computed Tomography Stress Perfusion Imaging

- 141 Etan A. Nelson, MD**
Improved Diagnostic Accuracy Utilizing Model-based Iterative Reconstruction in Coronary Computed Tomography Angiography Compared to Invasive Angiography
- 142 Zachary D. Guenther, MD**
3-D Aortic Strain Analysis from Gated Computerized Tomography in Patients with Severe Aortic Valvular Stenosis: Clinical Feasibility and Preliminary Findings

- 143 Andrea D. Annoni, MD**
Submillisievert CT Angiography for Carotid Arteries Using New Adaptive Statistical Iterative Reconstruction-V

- 144 Sujata M. Shanbhag, MD**
Improved Quality and Signal-to-Noise Using a Novel Fully Model-based Iterative Reconstruction Algorithm: Initial Experience with Low-Dose Cardiac Functional Analysis
- 145 Eric Gros, MD**
Evaluation of Coronary Specific, Automated Phase Selection Reconstruction for Single-beat Wide Cone Axial CCTA
- 146 Michael Grass, MD**
Fully Automatic Cardiac CT Motion Compensation Using Vessel Enhancement

Poster Session XV
Other
Abstracts 147-156

- 147 Kranthi Kolli, MD**
Patient-specific CFD of Aorto-coronary Models Based on CCTA with Sequential and Individual Grafts
- 148 Chen Wang, MD**
High-pitch Combined Coronary and Carotid-cerebral CTA in Patients after Acute Ischemic Stroke with Third Generation Dual-source CT
- 149 Rui Wang, MD**
Diagnostic Accuracy of Monoenergetic Reconstruction and Nonlinear Blending on Myocardial Infarction Using Dual-energy CT: Comparison with 3 T Cardiac MR
- 150 Yasutoshi Ohta, MD, PhD**
Whole Left Ventricular Myocardial Extracellular Volume Fraction Measurement in Normal Subjects Using Spectral CT
- 151 Maria Eduarda Menezes De Siqueira, MD**
 Premature Coronary Atherosclerosis: Is It a Reality in Brazil?
- 152 Edward D. Nicol, MD, MBA, FSCCT**
A National Survey of Coronary CT Angiography Doses in the UK on behalf of the British Society of Cardiovascular CT (BSCCT)
- 153 Sirous P. Rasanian, MD**
An Unusual Case of a Left Circumflex Coronary-bronchial Artery Fistula
- 154 Sirous Darabian, MD**
Strong Association Exist between Novel Epicardial Fat Volume Index and Sub-Clinical Coronary Artery Disease
- 155 Maria Eduarda Menezes De Siqueira, MD**
 The Brazilian Heart: Demographic and Coronary Computed Tomographic Angiography Findings from a Reference Tertiary Hospital
- 156 Song Shou Mao, MD**
Accuracy in Diagnosis of Left Ventricular Hypertrophy Using Electrocardiography in Comparison with Cardiac CT Angiography

Saturday, June 25 | 9:30 am–10:15 am (continued)

Poster Session XVI: Perfusion/Physiologic Imaging Abstracts 157-176

- 157 Nico Buls, MD**
Towards 70 Kvp Protocols for Dynamic CT Cardiac Perfusion: A Preclinical Feasibility Study
- 158 Sunny Shah, MD**
Detection of CT Myocardial Perfusion Defects Using Monochromatic Energies: A Phantom Study
- 159 Mark Rabbat, MD, FSCCT**
A Novel Epicardial Adipose Tissue Inflammatory Index Predicts Lesion-Specific Ischemia as Assessed by Fractional Flow Reserve: A Substudy of the DISCOVER-FLOW and DeFACTO Trials
- 160 Patricia Carrascosa, MD, PhD, FSCCT**
 Signal Density Spectrum of Myocardial Perfusion Defects using Virtual Monochromatic Imaging Derived from Dual Energy Computed Tomography
- 161 Satoshi Nakamura, MD**
Frequency of Perfusion Abnormality on Quantitative Myocardial CT Perfusion Imaging in Patients with No, Non-obstructive, and Obstructive Coronary Artery Disease on Coronary CT Angiography
- 162 Sheshadri Thiruvankadam, MD**
Group-wise Non-rigid Registration for Motion Compensation in Myocardial CT Perfusion
- 163 Adam M. Alessio, MD**
Performance of a Non-Rigid Registration Method for Dynamic Myocardial Perfusion CT
- 164 Kristof De Smet, MD**
Clinical Use of FFRCT in the Evaluation of Symptomatic Patients with Intermediate (50-70%) Coronary Stenosis: Can It Improve Diagnosis and Reduce Radiation Risk and Cost?
- 165 Adam M. Alessio, MD**
Quantitative Myocardial Blood Flow from Dynamic CT compared to PET
- 166 Siyu Liu, MD**
Diagnostic Performance Comparison of Instantaneous Wave-Free Ratio Derived from Coronary Computed Tomography Angiography (iFRCT), Transluminal Attenuation Gradient (TAG) and TAG with Corrected Contrast Opacification (TAG-CCO) for the Evaluation of Hemodynamically Significant Coronary Stenosis
- 167 Patricia Carrascosa, MD, PhD, FSCCT**
 Role of Motion Correction Algorithm to Reduce Radiation Dose and Contrast Media for Myocardial Perfusion Evaluation: Preliminary Results

- 168 Alejandro Deviggiano, MD**
 Stress Myocardial Perfusion Computed Tomography Using Different Scanning Techniques: Implications for Dose-Saving Strategies
- 169 Adam M. Alessio, MD**
Normal Contrast Enhancement Patterns for Static CTA Myocardial Perfusion Assessment in 64- and 256-Slice Scanners
- 170 Donghee Han, MD**
Material decomposition from Dual Energy CT for Myocardial Perfusion: A Phantom Study
- 171 Victor Mor-Avi, MD**
Suitability of Conventional Segmentation Schemes for Analysis of High-resolution Parametric Images: Lesson Learned from 3-D Fusion of Computed Tomography Images of Coronary Arteries and Myocardial Perfusion
- 172 Tiago A. Magalhães, MD, PhD**
 Combined Coronary Computed Tomography Angiography and Stress Myocardial Computed Tomography Perfusion via Teleradiology
- 173 Yang Hou, MD**
Tmax as an Indicator of Myocardial Ischemia in Adenosine-stressed Dynamic CT Perfusion Imaging
- 174 Marco Giordano, PhD**
Classification of Hemodynamic Significant Stenosis Observed on Dynamic CT Myocardial Blood Flow and CTCA-derived Myocardial Territories: A Proof of Concept
- 175 Takahiro Yokoi, MD**
Reduction of Sampling Rate at the Whole Heart Dynamic Computed Tomography (CT) Scan: Evaluating the Myocardial Blood Flow (MBF) Value and Diagnostic Ability
- 176 Roberto Cury, MD**
 Feasibility of Dynamic Stress Perfusion CT — Volumetric Acquisition Protocol and Low Radiation Dose

Poster Session XVII: Plaque Imaging Abstracts 177-187

- 177 Mihaly Karolyi, MD, PhD**
Improved Semi-automated Plaque Quantification with Iterative Model Reconstruction in Coronary CT Angiography

- 178 Zhennan Li, MD**
Effects of Statin Therapy on Progression of Mild Non-calcified Coronary Plaque Assessed by Serial Coronary CT Angiography: A Multi-center Prospective Study
- 179 Susanne Schoegl, MD**
The Influence of Uric Acid Levels on Coronary Plaque Composition by Coronary Computed Tomography Angiography
- 180 Negin Nezarat, MD**
Coronary Plaque Burden Comparison between Young Diabetes Mellitus Individuals and Control Age-Sex Matched Population: A Quantitative Semi-Automated Coronary Plaque Measurement
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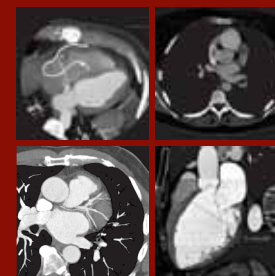


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FRIDAY, JUNE 24

7:00 am–7:50 am | Crystal Ballroom A/B

**Advancements in Diagnosing Cardiovascular Disease:
Integrating FFR_{CT} into Daily Clinical Practice****Chair:** Morton Kern, MD**Speakers:** Jonathon A. Leipsic, MD, FSCCT; Mark Rabbat, MD, FSCCT;
Gilbert Raff, MD, FSCCT; Markus Sherer, MD, FSCCT and Robert Schwartz, MD*Sponsored by:*
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12:45 pm–1:30 pm | Crystal Ballroom A/B

**Learn How Industry Experts are Using Revolution CT
to Help Drive Clinical Outcomes****Speakers:** Matthew J. Budoff, MD, FSCCT and
Jonathon A. Leipsic, MD, FSCCT*Sponsored by:*
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SATURDAY, JUNE 25

7:00 am–7:50 am | Crystal Ballroom A/B

Cardiac Dedicated Stereo CT: First in Man Clinical Results**Chair:** Matthew J. Budoff, MD, FSCCT**Speakers:** Ronen Rubinshtein, MD; Jonathon A. Leipsic, MD, FSCCT and
Ehud Dafni, PhD*Sponsored by:*
Arineta Ltd.

12:15 pm–1:00 pm | Crystal Ballroom A/B

**Tips, Tricks and Experience with Truly Difficult
Coronary CTA: Learn from the Experts****Speakers:** Stephan Achenbach, MD, FSCCT; John Lesser, MD, FSCCT;
Suhny Abbara, MD, FSCCT and Victor Cheng, MD, FSCCT*Sponsored by:*
**Siemens
Healthcare**

12:15 pm–1:00 pm | Discovery Ballroom

**FIRST (MBIR) Reconstruction to Improve Image Quality
While Lowering Dose: Ultra-High Resolution CT with a
New Prototype CT Scanner****Presented by:** Marcus Chen, MD**Using Wide-Detector Cardiac CTA to Compute CTFFR****Presented by:** Shinichiro Fujimoto, MD, PhD*Sponsored by:*
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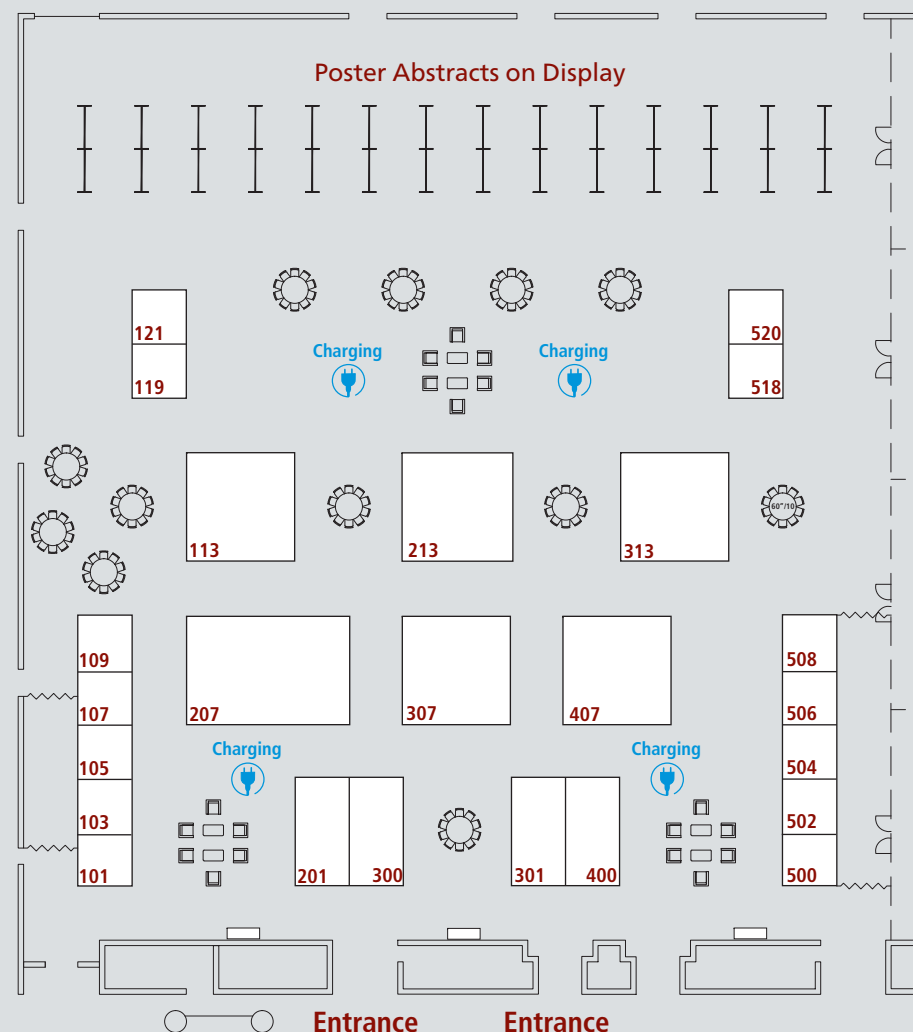
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Renaissance Orlando at SeaWorld® | Exhibit Hall | Oceans Ballroom 1-8



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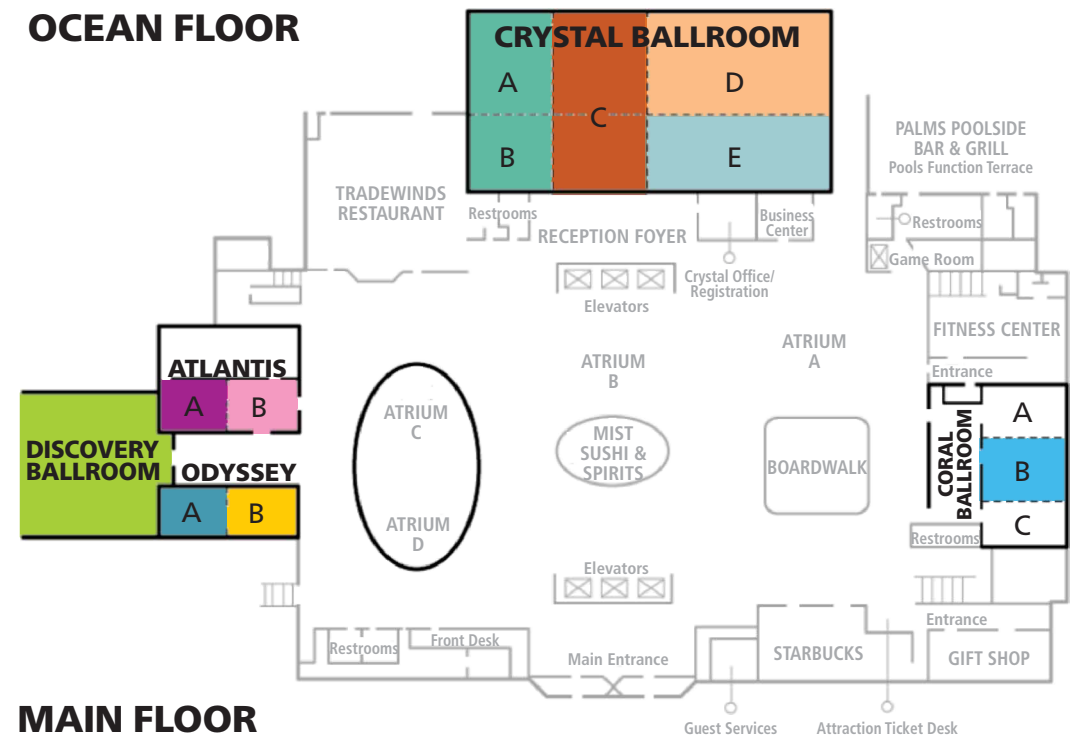
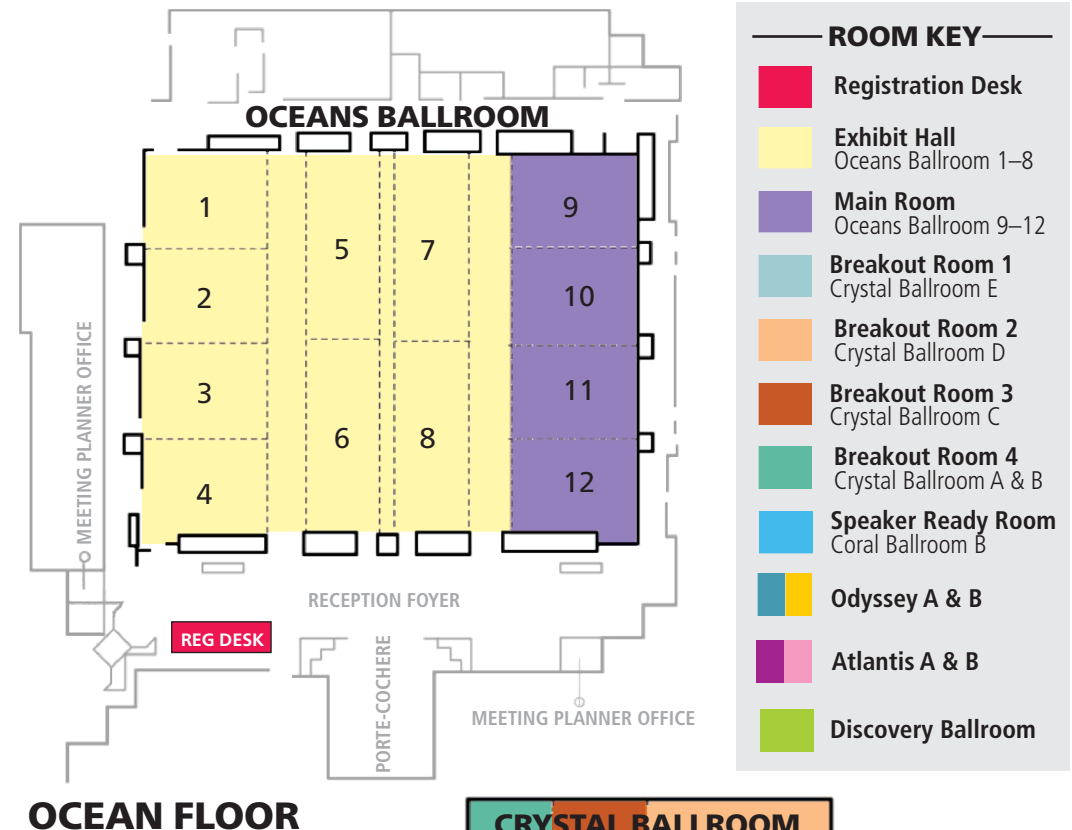
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