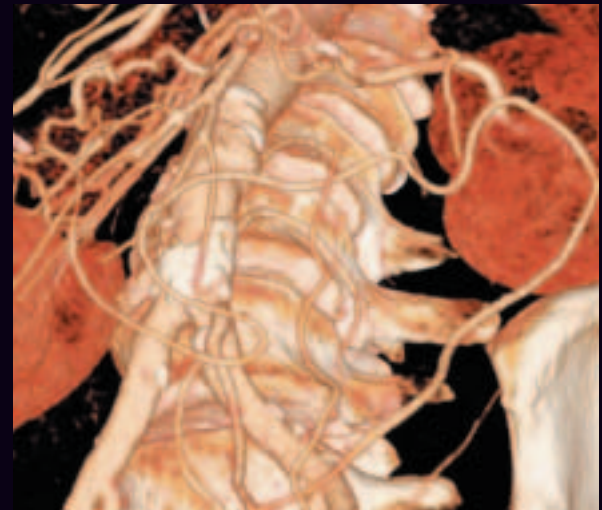
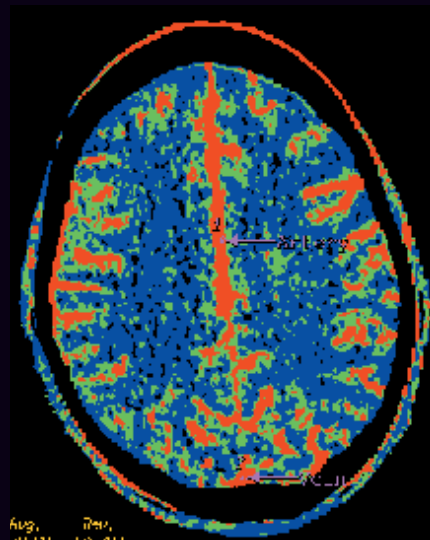


STANFORD RADIOLOGY

7th Annual International Symposium on

Multidetector-Row CT

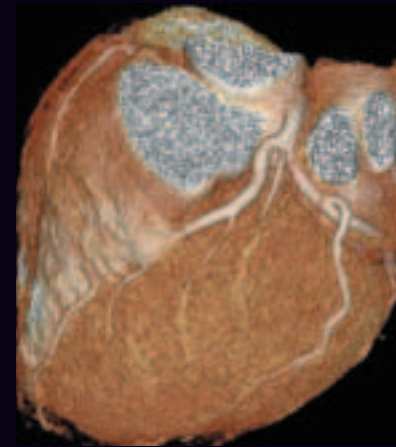
Course Directors: Gary M. Glazer, M.D., Geoffrey D. Rubin, M.D.



June 15-18, 2005

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Accommodations, Travel and Course Objectives

Located on the scenic Embarcadero waterfront, the four-star Hyatt Regency San Francisco is part of a newly renovated eight-block Embarcadero Center business and shopping complex, centrally located in the financial district. The hotel is convenient to Fisherman's Wharf, Chinatown, Union Square, Ghirardelli Square, North Beach, shopping, dining, and entertainment. The Hyatt Regency boasts 805 guest rooms in the 17-story Atrium building, each with a view of the city or the San Francisco Bay. Every room comes equipped with voicemail, computer dataports, and high speed wireless Internet access. The hotel also features a fully equipped fitness center and Equinox, a revolving restaurant and lounge on top of the Hyatt. Completing a full revolution every 45 minutes, there is no better place to enjoy the beauty of the San Francisco skyline.

A discounted group rate of \$210.00 per night for a deluxe guest room has been reserved for our conference participants. This rate is for single or double occupancy, and is subject to tax. To receive this special rate, please make your reservation no later than **May 21, 2005**. After May 21st, our group discount cannot be guaranteed and *may sell out before the cut-off date*. Don't be disappointed by waiting too long – reserve your room now by calling the Hyatt Regency San Francisco at 1-800-720-0049 or (415) 788-1234 or book online at <http://sanfranciscohyattregency.com/> (group code: G-STAN). The Hyatt Regency San Francisco is located at 5 Embarcadero Center, at the corner of Market and Drumm Streets in San Francisco, California.

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Bureau at (415) 391-2000 or visit their website at <http://www.sfvisitor.org/>

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Special airfare and discount car rentals: Palo Alto Village Travel has been chosen as the official travel agency for this conference. Palo Alto Village Travel's knowledgeable staff are at your service Monday-Friday, 8:30am-5:30pm PST. Call Palo Alto Village Travel at 1-800-245-3260 (within U.S. or Canada) or (650) 326-0510.

Special meeting discounts on airfare and car rentals have been arranged for our attendees and their guests. The airlines offer discounts off published fares and special area pricing rates.

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Course Objectives

This course is intended for Radiologists, Medical Imaging Scientists, Radiology Technologists, Nurses, Physician Assistants and Non-Radiologist Physicians interested in CT technology and its applications.

Topics include specific sessions on principles of MDCT, radiation exposure, contrast medium, emergency applications, pediatric applications, neuro applications, musculoskeletal applications, workflow/image processing, chest applications, PET and functional CT, abdomen applications, vascular applications and cardiac applications.



Accreditation

Stanford University School of Medicine is accredited by the Accreditation Council for Continuing Medical Education to sponsor continuing medical education for physicians.

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Technologists: ARRT Category A CEU credit has been applied for. Please visit our website for an update on number of credit hours confirmed.



Program

Tuesday, June 14, 2005

By Appointment: Sign Up for Workstation Training
<http://radiologyme.stanford.edu/dest/workstation.html>
3:00-5:00 Pre-Registration and Check-In

Wednesday, June 15, 2005

By Appointment: Sign Up for Workstation Training
<http://radiologyme.stanford.edu/dest/workstation.html>
7:00-7:30 am Registration, Continental Breakfast & Exhibits

7:30-7:40 Course Welcome
Gary M. Glazer, MD

Session I: Principles
Moderator Geoffrey D. Rubin, MD

7:40-7:50 Program Introduction
Geoffrey D. Rubin, MD

7:50-8:00 16-64 Row Scanners:
Detector and Tube Differences
Sandy Napel, PhD

8:00-8:10 64 from 32: Understanding the Magic
Willi Kalender, PhD

8:10-8:20 Principles for Maximizing Image Quality:
Scan Acquisition
Mathias Prokop, MD

8:20-8:30 Selecting Pitch, Table Speed, and Rotation
Time: Strategies for Protocol Building
Geoffrey D. Rubin, MD

8:30-8:40 64-Row Scanners: When is Fast Too Fast?
Richard L. Hallett, MD

8:40-8:50 Principles for Maximizing Image Quality:
Scan Reconstruction
Dominik Fleischmann, MD

8:50-9:00 Top 5 CT Features We Don't Have Now,
But Need
Willi Kalender, PhD

9:00-9:10 Future Directions for Cone-Beam CT:
C-arm Based Source
Rebecca Fahrig, MD

9:10-9:20 Future Directions for Cone-Beam CT:
Gantry Based Source
Norbert J. Pelc, ScD

9:20-9:30 Future Applications for Cone-Beam CT
Thomas J. Brady, MD

9:30-9:45 Discussion
9:45-10:15 *Coffee Break & View Exhibits*

10:15-10:25 MDCT Case of the Year: Fujita Health
University
Kazuhiro Katada, MD

Session II: Radiation Exposure
Moderator Geoffrey D. Rubin, MD

10:25-10:35 From KV and mA to milliSieverts.
Understanding Radiation Doses With CT
Cynthia H. McCollough, PhD

10:35-10:45 When Does Radiation Dose Reduction
Create Diagnostic Problems?
Mathias Prokop, MD

10:45-10:55 Radiation Dose Reduction – Strategies for
Minimizing the Impact on Image Quality
Cynthia H. McCollough, PhD

10:55-11:05 Reducing Radiation Dose: Where
Can We Have the Greatest Impact?
Aart J. van der Molen, MD

Session III: Contrast Medium
Moderator Dominik Fleischmann, MD

11:05-11:15 Building a Reliable Bolus: Dealing with
Extreme Physiologic States
Jay P. Heiken, MD

11:15-11:25 Using High Iodine Concentration
Contrast Medium. What Value?
Dominik Fleischmann, MD

11:25-11:35 Saline Flush and Variable Flow Rates:
Rationale for New Injector Features
Jay P. Heiken, MD

11:35-11:45 Understanding Serum Creatinine: Benefits
of Pre-Scan Measurements, Who Should
be Scanned and How Elevated is Elevated?
Richard Solomon, MD

11:45-11:55 pm Injecting Central Lines: When and How
Stuart Mirvis, MD

11:55-12:05 Strategies for Minimizing Contrast-
Induced Nephropathy in the Azotemic
Patient
Richard Solomon, MD

12:05-12:15 Delayed Contrast Reactions: Do You
Know What Might be Happening to Your
Patient After a CT Scan?
Michael Bettman, MD, FACR, FAHA

12:15-12:30 Discussion

12:30-1:45 *Lunch on Own*

Session IV: Emergency
Moderator Geoffrey D. Rubin, MD

1:45-1:55 Maximizing Efficiency of MDCT in the
Emergency Department
Robert A. Novelline, MD

1:55-2:05 MDCT Protocols in Polytrauma
Jorge A. Soto, MD

2:05-2:15 Tips for Maximizing MDCT in Cervical
Spine Trauma
Robert A. Novelline, MD

2:15-2:25 Aortic Trauma
Stuart Mirvis, MD

2:25-2:35 MDCT in the Triage of Acute Chest Pain
U. Joseph Schöpf, MD

2:35-2:45 Pitfalls of Trauma CT: Lesions That Are
Easy to Miss
Stuart Mirvis, MD

2:45-2:55 3D in the ED: Is it Practical?
Robert A. Novelline, MD

2:55-3:05 CT Angiography in Extremity Trauma
Jeffrey C. Hellinger, MD

3:05-3:20 Discussion

3:20-3:50 *Coffee Break & View Exhibits*

3:50-4:00 MDCT Case of the Year: University of
Maryland
Stuart Mirvis, MD

Session V: Pediatric
Moderator Francics Chan, MD

4:00-4:10 Preparing the CT Suite for Children:
Special Needs
S. Bruce Greenberg, MD

4:10-4:20 More Detector Rows than Months of Life:
Is There a Benefit?
Francics Chan, MD

4:20-4:30 Outside of the Lungs, When is CT
Preferred to MRI or Sonography in
Children?
S. Bruce Greenberg, MD, PhD

4:30-4:40 Tailoring the Scan Protocol to Patient Age:
Primary Considerations
Hans G. Ringertz, MD, PhD

4:40-4:50 Techniques for Imaging the Child's Heart
with MDCT
Francics Chan, MD

4:50-5:00 Imaging Congenital Heart Disease:
MR vs MDCT
Hans G. Ringertz, MD, PhD

5:00-5:15 Discussion

Thursday, June 16, 2005

By Appointment: Sign Up for Workstation Training
<http://radiologyme.stanford.edu/dest/workstation.html>
7:00-7:30 am Continental Breakfast & Exhibits

7:30-7:35 am Announcements

Session VI: Neuro
Moderator Nancy Fischbein, MD

7:35-7:45 Understanding CT Perfusion
Max Wintermark, MD

7:45-7:55 The Evolving Role for MDCT in Stroke
L. N. Tanenbaum, MD, FACR

7:55-8:05 Techniques for Maximizing Cerebral CTA
Image Quality
Kazuhiro Katada, MD

8:05-8:15 Cerebral Aneurysm Detection: MDCT
versus MR versus DSA
Nancy Fischbein, MD

8:15-8:25 Perfusion CT: Nonischemic Applications
Max Wintermark, MD

8:25-8:35 When is Contrast-Enhanced CT the
Method of Choice for Imaging the

Brain?

Jay Cinnamon, MD

8:35-8:45 Common Pitfalls in the Acquisition and
Interpretation of Brain MDCT
L. N. Tanenbaum, MD, FACR

8:45-8:55 When is MDCT Preferred to MRI for
Imaging the Soft Tissues of the Neck
Nancy Fischbein, MD

8:55-9:05 Radiologists and Sinus CT: Evolving
Methods, Evolving Roles
Jay Cinnamon, MD

9:05-9:20 Discussion

9:20-9:45 *Coffee Break & View Exhibits*

9:45-9:55 MDCT Case of the Year: University of
Vermont
George M. Ebert, MD, PhD

Session VII: Musculoskeletal
Moderator Garry E. Gold, MD

9:55-10:05 MDCT of Bone Lesions: a Serious
Competitor to MRI?
Garry E. Gold, MD

10:05-10:15 Does MDCT with MPR Eliminate the
Challenge of Specialized Extremity
Positioning?
Georges Y. El-Khoury, MD

10:15-10:25 Important Issues in the Characterization
of Hip and Pelvis Fractures
Garry E. Gold, MD

10:25-10:35 Who Benefits from 3D Rendering of
Musculoskeletal CT?
Georges Y. El-Khoury, MD

10:35-10:45 Scanning Orthopedic Hardware:
How and Why
Garry E. Gold, MD

10:45-10:55 CT Arthrography: a Useful Technique?
Georges Y. El-Khoury, MD

10:55-11:10 Discussion

11:10-12:25 pm *Lunch on Own*

Session VIII: Workflow/Image Processing
Moderator Robert J. Herfkens, MD

12:25-12:35 Efficiency in the CT Suite:
Maximizing Patient Throughput
Michael W. Vannier, MD

12:35-12:45 Overcoming Bottlenecks to Filmless
Interpretation
Robert J. Herfkens, MD

12:45-12:55 Scan Thin, Read Thick: Pros and Cons
Mathias Prokop, MD

12:55-1:05 Garbage in, Garbage Out:
Assuring High-Quality 3D Views
Michael W. Vannier, MD

1:05-1:15 Features of an Effective 3D Workstation
Aart J. van der Molen, MD

1:15-1:25 3D Services: Docs vs. Techs
Geoffrey D. Rubin, MD

1:25-1:35 Training Technologists to Create
3D Visualizations
Laura Pierce, MPA, RT (CT)

1:35-1:45 Starting a 3D Lab in a Community Practice
Jay Cinnamon, MD

1:45-1:55 Beyond 3D – What's New in
Image Processing Workstations
Geoffrey D. Rubin, MD

1:55-2:05 Future Trends in 3D: Five Year Horizon
Sandy Napel, PhD
2:05-2:20 Discussion
2:20-2:45 *Coffee Break & View Exhibits*
2:45-5:30 **3rd Annual Workstation Face-Off: View and Compare How Each Major Workstation Can be Used for Visualization of 3D Data Sets**

Friday, June 17, 2005

By Appointment: Sign Up for Workstation Training
<http://radiologycme.stanford.edu/dest/workstation.html>

7:00-7:30 am *Continental Breakfast & Exhibits*

7:30-7:35 am *Announcements*

Session IX: Chest
Moderator Ann N. Leung, MD

7:35-7:45 CT Venography: Is it Worth the Effort and Dose?
U. Joseph Schöpf, MD

7:45-7:55 Excluding PE in Pregnant Patients
Phillip M. Boiselle, MD

7:55-8:05 PE Detection: What is Too Thick?
Ella Kazerooni, MD

8:05-8:15 Pitfalls in Obtaining Diagnostic Pulmonary CT Angiograms
Ann N. Leung, MD

8:15-8:25 Cardiac Gating for Pulmonary Applications: is it Worth the Cost?
U. Joseph Schöpf, MD

8:25-8:35 Pulmonary Nodules: Which Should be Followed and How Frequently?
Ella Kazerooni, MD

8:35-8:45 Pulmonary Nodules: Should We Detect Them All?
Ann N. Leung, MD

8:45-8:55 Lung Nodule CAD in Clinical Practice
Jeffrey B. Mendel, MD

8:55-9:05 Lung CAD: What Should We Expect?
Geoffrey D. Rubin, MD

9:05-9:15 Ground Glass Opacities: What is Significant?
Ella Kazerooni, MD

9:15-9:25 The Role of PET/CT in Lung Nodule Characterization
Andrew Quon, MD

9:25-9:40 Discussion

9:40-10:00 *Coffee Break & View Exhibits*

10:00-10:10 MDCT Case of the Year: Harvard University
Phillip M. Boiselle, MD

10:10-10:20 Diffuse Lung Disease: Helical versus Conventional Scanning
Ann N. Leung, MD

10:20-10:30 Hidden Disease in the Chest: Where it Lurks and How to Detect It
Phillip M. Boiselle, MD

10:30-10:40 CT of Emphysema: Evolving Methods
Jeffrey B. Mendel, MD

Session X: PET and Functional CT
Moderator Andrew Quon, MD

10:40-10:50 Imaging Tumor Angiogenesis: MDCT versus MRI
Anwar R. Padhani, MD, PhD

10:50-11:00 Top 10 facts that CT Imagers Should Know about PET
Andrew Quon, MD

11:00-11:10 Applications for Extracranial Perfusion Imaging
Anwar R. Padhani, MD, PhD

11:10-11:25 Discussion

11:25-12:40 pm *Lunch on Own*

12:40-12:50 Abdominal CT Protocol Evolution: 4 to 64 Row
W. Dennis Foley, MD

Session XI: Abdomen
Moderator R. Brooke Jeffrey, MD

12:50-1:00 Optimized Abdominal CT Protocol for Large Patients
Rendon C. Nelson, MD

1:00-1:10 Low Dose Unenhanced Abdominal CT: When is it Appropriate and How Low Should We Go?
Vassilios Raptopoulos, MD

1:10-1:20 Delayed Scans: When Should They be Routine?
Jorge A. Soto, MD

1:20-1:30 Oral Contrast Agents: When, How and If
Jay P. Heiken, MD

1:30-1:40 Hepatic Lesion: What is too Small to Characterize?
Lincoln L. Berland, MD, FACR

1:40-1:50 Hypervascular Liver Lesions: Separating the Wheat from the Chafe
W. Dennis Foley, MD

1:50-2:00 Detection of Hepatocellular Carcinoma in Cirrhotic Patients: Is MDCT the Modality of Choice?
Rendon C. Nelson, MD

2:00-2:10 What's New in Hepatic Metastasis Detection?
Jay P. Heiken, MD

2:10-2:20 Small Cystic Pancreatic Masses: How and Why to Detect Them
R. Brooke Jeffrey, MD

2:20-2:30 The Role of 3D Techniques in Staging Pancreatic Adenocarcinoma
R. Brooke Jeffrey, MD

2:30-2:45 Discussion

2:45-3:05 *Coffee Break & View Exhibits*

3:05-3:15 MDCT Case of the Year: New York University
Michael Macari, MD

3:15-3:25 Efficient CT Urography: Protocol Optimization for Workflow and Dose Minimization
Vassilios Raptopoulos, MD

3:25-3:35 3D and MPR of CT Urograms: What Views are Worth the Effort?
Lawrence Chow, MD

3:35-3:45 Renal Imaging: New Techniques
Lincoln L. Berland, MD, FACR

3:45-3:55 Small Adrenal Lesions: Which Ones Should be Followed?
Jorge A. Soto, MD

3:55-4:05 Screening CT Colonography: Is it Time?
Abe Dachman, MD, FACR

4:05-4:15 Tips for Optimizing CT Colonography Acquisition
Patrik Rogalla, MD

4:15-4:25 Primary 2D versus 3D Interpretation in CT Colonography
Michael Macari, MD

4:25-4:35 New Ideas and Methods for Analyzing CT Colonograms
Sandy Napel, PhD

4:35-4:45 Update on CAD for Colon Lesions
Abe Dachman, MD, FACR

4:45-4:55 CT Detection of Gastrointestinal Bleeding
Michael Macari, MD

4:55-5:05 Diagnosing Bowel Ischemia: What is the Optimal Technique?
Patrik Rogalla, MD

5:05-5:15 CT of Bowel Obstruction: Value of Multiplanar Reformations
Lawrence Chow, MD

5:15-5:30 Discussion

Saturday, June 18, 2005

By Appointment: Sign Up for Workstation Training
<http://radiologycme.stanford.edu/dest/workstation.html>

7:00-7:30 am *Continental Breakfast & Exhibits*

7:30-7:35 am *Announcements*

Session XII: Vascular
Moderator Dominik Fleischmann, MD

7:35-7:45 CT vs MR Angiography: Practical Choices
Scott B. Reeder, MD, PhD

7:45-7:55 CTA Acquisition Strategies
W. Dennis Foley, MD

7:55-8:05 Contrast Medium Delivery for Thoracoabdominal CTA
Mark D. Hiatt, MD

8:05-8:15 Acute Aortic Syndromes: Definitions and Classifications
Dominik Fleischmann, MD

8:15-8:25 Unenhanced CTA
Geoffrey D. Rubin MD

8:25-8:35 Type B Aortic Dissection: Spectrum of Findings and Key Observations for Management
Richard L. Hallett, MD

8:35-8:45 Cardiac Gating for Aortic Disease
Christoph R. Becker, MD

8:45-8:55 Assessing Aortic Root Disease with CTA
Robert J. Herfkens, MD

8:55-9:05 Intramural Hematoma: Imaging Features and Natural History
Axel Küttner, MD

9:05-9:15 CTA of Renal Artery Stenosis: Assessing Significance and Differential Diagnosis
Katharina Anders, MD

9:15-9:25 Recognizing Important Abdominal Collateral Arteries on CTA
Michael Bourne, MD

9:25-9:40 Discussion

9:40-10:05 *Coffee Break & View Exhibits*

10:05-10:15 MDCT Case of the Year: Cardiologique du Nord
Jean Louis Sablayrolles, MD

10:15-10:25 Imaging Issues in Planning Endoluminal Abdominal Aortic Aneurysm Repair
Michael Bourne, MD

10:25-10:35 Endoleaks: What Are They and Which are Important?
W. Dennis Foley, MD

10:35-10:45 Complications of AAA Repair with Endografts
Geoffrey D. Rubin, MD

10:45-10:55 Upper Extremity CTA: Spectrum of Techniques
Jeffrey C. Hellinger, MD

10:55-11:05 CTA Applications in Plastic Surgery
Richard L. Hallett, MD

11:05-11:15 CTA of Dialysis Access
Jeffrey C. Hellinger, MD

11:15-11:25 Contrast Delivery Challenges and Solutions for Imaging Lower Extremity Arteries
Dominik Fleischmann, MD

11:25-11:35 Lower Extremity CTA: Is DSA Obsolete?
Katharina Anders, MD

11:35-11:45 pm Strategies for Efficient Interpretation of Lower Extremity CTA
Dominik Fleischmann, MD

11:45-12:00 Discussion

12:00-1:15 *Lunch on Own*

Session XIII: Cardiac
Moderator Geoffrey D. Rubin, MD

1:15-1:25 Coronary Artery Anatomy and Diagnosis of Common Lesions
Axel Küttner, MD

Registration Form

- 1:25-1:35 **Coronary Calcium Measurement: What is the Optimal Scan Technique?**
Roman Fischbach, MD
- 1:35-1:45 **Coronary CTA: Minimum Scanner Standards**
Thomas J. Brady, MD
- 1:45-1:55 **What's the Impact of Iodine Concentration and Delivery on Coronary CT Angiography?**
Christoph R. Becker, MD
- 1:55-2:05 **Patient Preparation for Coronary CTA**
Jean Louis Sablayrolles, MD
- 2:05-2:15 **Efficient Cardiac MDCT Workflow in a Community Setting**
David A. Dowe, MD
- 2:15-2:25 **Strategies for Reducing the Radiation Dose of Cardiac CT: Are they Clinically Practical?**
U. Joseph Schöpf, MD
- 2:25-2:35 **Multiphase Reconstruction of Cardiac CT Data: The Good, the Bad, and the Ugly**
Christoph R. Becker, MD
- 2:35-2:45 **Cardiac MDCT: Building a Practice**
David A. Dowe MD
- 2:45-3:00 **Discussion**
- 3:00-3:20 **Coffee Break & View Exhibits**
- 3:20-3:30 **MDCT Case of the Year: INOVA Fairfax Hospital**
James P. Earls, MD
- 3:30-3:40 **Diagnostic Performance of CTA for Detection of Coronary Occlusive Disease: State-of-the-Art**
Thomas J. Brady, MD
- 3:40-3:50 **Results of a Multi-Center Coronary CTA Trial (CATSCAN)**
Mathias Prokop, MD
- 3:50-4:00 **When is Coronary CTA the Test of Choice?**
João A. C. Lima, MD
- 4:00-4:10 **Myocardial Bridging: Frequency and Significance at MDCT**
James P. Earls, MD
- 4:10-4:20 **Is There a Role for Coronary CTA in Asymptomatic Patients?**
João A. C. Lima, MD
- 4:20-4:30 **Coronary Artery Bypass Grafts: Issues for Clinically Relevant Surveillance**
Axel Küttner, MD
- 4:30-4:40 **Detection of Coronary Anomalies: How Good is MDCT?**
James P. Earls, MD
- 4:40-4:50 **Myocardial Function from CT Data: Method and Accuracy**
Roman Fischbach, MD
- 4:50-5:00 **Electrophysiological Applications of Cardiac MDCT**
Francis Chan, MD
- 5:00-5:15 **Discussion**

Stanford University School of Medicine Department of Radiology

7th Annual International Symposium on

Multidetector-Row CT

June 15-18, 2005

Hyatt Regency, San Francisco, California

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The General Session will be held in the Hyatt Regency Grand Ballroom. Pre-Registration and check-in will be held Tuesday, June 14th from 3:00 to 5:00 p.m. Registration and check-in continue on Wednesday, June 15, 2005 at 7:00 am.

The Department of Radiology gratefully acknowledges support from the following companies:

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