STANFORD RADIOLOGY

THE STANFORD DEPARTMENT OF RADIOLOGY PRESENTS THE
10TH ANNUAL INTERNATIONAL SYMPOSIUM ON

Multidetector-Row CT

May 13-16, 2008
Wynn Las Vegas

PROGRAM HIGHLIGHTS

1. Hot Topics Presented in Highly Focused 10 Minute Lectures
2. Hands-On Workstation Training
   Learn techniques for post processing in one-on-one sessions available throughout the course.
3. Relevant and Extensive Exhibits
   Manufacturers of all major equipment, workstations and contrast, plus book vendors.
4. 6th Annual Original Workstation Face-Off
   Observe physician-operators navigate the same diverse clinical datasets to identify key clinical findings.
5. Case Conference with the Professor
   New interactive sessions led by our course faculty. Replicate the experience of reading a case with expert feedback!

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

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STANFORD UNIVERSITY
SCHOOL OF MEDICINE

Stanford University Medical Center
LEARNING OBJECTIVES
This course is intended for radiologists, medical imaging scientists, non-radiologist physicians, and other medical professionals such as radiologic technologists, nurses, and physician’s assistants who are interested in CT technology and its applications.

At the conclusion of this activity, participants should be able to:
• Describe the present and future of CT technology
• Optimize new techniques for contrast medium delivery and understand how to manage contrast medium risks
• Implement current pediatric MDCT applications
• Implement new MDCT techniques for Trauma and Musculoskeletal imaging
• Optimize MDCT techniques for abdominal imaging in the liver, pancreas, kidneys and bowel
• Discuss the latest techniques and tools for workflow and image processing
• Optimize MDCT for the chest including evaluation of pulmonary nodules and understand the benefits of CAD
• Utilize MDCT for current neuro applications, including evaluation of cerebro-vascular disease, stroke, neuro CTA and CT perfusion
• Implement current methods and applications of vascular MDCT
• Utilize new techniques, indications and interpretations for Cardiac MDCT
• Identify uses of cardiac PET/CT and non-coronary applications
• Optimize coronary CTA for detection and characterization of coronary artery disease

STATEMENT OF NEED
Substantial developments in MDCT technology have resulted in a broad spectrum of new and improved clinical applications. These developments and techniques include wide-area detectors, whole-organ perfusion imaging, and dual energy imaging. This program aims to discuss the impact of new MDCT developments on clinical practice and help physicians learn how to advance their acquisition protocols and interpretations to take full advantage of these advances.

ACCREDITATION
The Stanford University School of Medicine is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

CREDIT DESIGNATION
The Stanford University School of Medicine designates this educational activity for a maximum of 36.50 AMA PRA Category 1 Credits™. Physicians should only claim credit commensurate with the extent of their participation in this activity.

Technologists: CE Category A credits have been applied for. Please check our website for updates.

ACCOMMODATIONS
Opening its doors to the public in 2005, the five star, five diamond Wynn hotel quickly gained its reputation as a leader in quality and luxury on the Las Vegas strip. Each room features 640 plus feet of floor space, complete with floor to ceiling windows, separate sitting area, 320 thread count sheets, and soaking tub with separate glass enclosed shower. Rooms come equipped with cordless phone, fax, high speed wireless internet, and flat screen LCD televisions in the bedroom and bathroom. A special rate of $269.00 per room per night for a Resort Room have 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 April 9, 2008. Rooms at this special rate have been reserved for attendees on a first-come, first-served basis and may sell out before the cut-off date.

Don't be disappointed by waiting too long; reserve your room now by contacting Wynn Room Reservations Department. Phone: 1-888-320-9966, or Fax: (702) 770-1571. Please identify yourself as a participant of the Stanford Radiology conference. For more information on the Wynn Las Vegas Resort, please visit their website at http://www.wynnlasvegas.com/ or call (702) 770-7000, toll free: 1-888-320-7123.

TRAVEL
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, 8:30 am-5:30 pm PST. Call Palo Alto Village Travel at 1-800-245-3260 (within U.S. or Canada) or (650) 326-0510.

Special airfare and discount car rentals:
Special meeting discounts on airfare and car rentals have been arranged for our attendees and their guests.
Call United Airlines at 1-800-521-4041 and reference Meeting ID Code 502BH.
Call American Airlines at 1-800-433-1790 and reference Authorization Number A061555.
Call Avis Car Rental at 1-888-754-8878, and refer to AWD # D004951, or book online at http://www.avis.com/, and enter the AWD number on the reservation page.
Call Hertz Car Rental at 1-800-654-2240 and refer to CV # 01YN0013, or book online at http://www.hertz.com/, and enter the CV number on the reservation form.

TUESDAY, MAY 13, 2008
6:30-7:00 am Registration, Check-In, and Continental Breakfast
7:00-7:10 Course Welcome
Gary M. Glazer, MD
7:10-7:20 Program Introduction
Geoffrey D. Rubin, MD

SESSION I: TECHNOLOGY: PRESENT AND FUTURE
Moderator: Geoffrey D. Rubin, MD
7:20-7:30 A Few Useful Analogies for Understanding Multi-Detector Row Technology
Dianna Cody, PhD
7:30-7:40 Technical Comparison of 64 Slice CT Scanners: X-Ray Source and Detectors
James A. Brink, MD
7:40-7:50 The Importance of Adaptive Z-Collimation in Spiral CT Scanning
Willi Kalender, PhD
7:50-8:00 Lessons from Lot's Wife: Looking Back May Not Be So Bad – Principles of Spatial and Contrast Resolution in Everyday CT Imaging
Jay Cinnamon, MD
8:00-8:10 A Stroll Down Multi-Detector Row CT Artifact Lane
Dianna Cody, PhD
8:10-8:20 Cardiac and Thoracic CT Should Be Carried Out at Low Voltages
Willi Kalender, PhD
8:20-8:30 First Clinical Experience with a Novel Adaptive CT Scanner
U. Joseph Schöpf, MD
8:30-8:40 The Scatter Environment in MDCT
Rebecca Fahrig, PhD
8:40-8:50 Relative Sensitivity of Dual Energy CT
Norbert J. Pelc, ScD
8:50-9:00 LSO, BGO, TOF: Sorting Through the Latest PET/CT Designs
Andrew Quon, MD
9:00-9:15 Questions and Answers
9:15-9:35 Coffee Break & View Exhibits

SESSION II: RADIATION EXPOSURE
Moderator: Geoffrey D. Rubin, MD
9:35-9:45 Trends in MDCT Utilization and Technique: Mandate for Radiation Dose Control
James A. Brink, MD
Michael F. McNitt-Gray, PhD
9:55-10:05 Questions and Answers
10:05-10:15 Characteristics and Radiation Dose of Area Detector CT
Kazuhito Katada, MD
10:05-10:15 Improved Control of the Dose vs. Image Quality Trade-Off with a "Virtual Bowtie" in Inverse Geometry CT
Norbert J. Pelc, ScD
10:15-10:25 Ionizing Radiation: What Are Differences You Should Care About?
Cynthia H. McCollough, PhD
10:25-10:35 Questions and Answers
10:35-10:45 Ionizing Radiation: What Are the Realistic Radiation Risks from Cardiac CT in Clinical Patient Populations?
U. Joseph Schöpf, MD
10:35-10:45 Questions and Answers
10:45-10:55 Radiation Dose Monitoring and Reporting for MDCT: Local, National, and Global Initiatives
James A. Brink, MD
10:55-11:05 Is CT Safe for Patients With Implantable Cardiac Devices?
Cynthia H. McCollough, PhD
11:05-11:20 Questions and Answers

SESSION III: CONTRAST MEDIUM RISK
Moderator: Dominik Fleischmann, MD
11:20-11:30 How Common is Clinically Significant Contrast-Induced Nephropathy Following Computerized Tomography?
Steven D. Weisbord, MD, MSc, FASN
The information provided at this CME/CE activity is for continuing education purposes only and is not meant to substitute for the independent medical/clinical judgment of a healthcare provider relative to diagnostic and treatment options of a specific patient's medical condition.
The real-time demonstrations of workstation performance will be presented side-by-side on one stage, facilitating comparison of the capabilities, image qualities, and workflow strategies available on each workstation.

Hands-On Workstation Training*
Learn techniques for post processing in one-on-one sessions available throughout the course. Sign-up information will be posted on our website one month prior to the meeting.

Case Conference With the Professor® NEW!
New interactive sessions led by our course faculty. Replicate the experience of reading a case with expert feedback! These 75 minute sessions will be focused on different CT applications (e.g., chest, cardiac, abdomen, musculoskeletal, etc.) and will run simultaneous to the course program. Registrants will work in pairs to manipulate and review cases on individual workstations and then discuss their findings within the small group setting. Specific sessions will be detailed on the website soon along with the opportunity to sign-up. Please note that space is limited.

*Note: Not certified for CME credit.

COURSE DIRECTORS:
Gary M. Glazer, MD
Emma Pfeffer Merner Professor in the Medical Sciences
Professor and Chairman, Department of Radiology
Stanford University School of Medicine
Geoffrey D. Rubin, MD
Professor of Radiology
Associate Dean for Clinical Affairs
Chief, Section of Cardiovascular Imaging
Medical Director, 3D Laboratory
Stanford University School of Medicine

GUEST FACULTY:
Andrew Aral, MD
Senior Investigator
National Heart, Lung and Blood Institute
National Institutes of Health
Dianna M. E. Bardo, MD
Chief of Cardiac Radiology
Department of Diagnostic Radiology
Oregon Health & Sciences University
Christoph R. Becker, MD
Associate Professor
Section Chief, Body CT and PET/CT
Department of Clinical Radiology
University Hospital Grosshadern
James A. Brink, MD
Professor and Chairman
Department of Diagnostic Radiology
Yale University School of Medicine
Matthew Budoff, MD
Associate Professor of Medicine
Program Director, Division of Cardiology
Director of Cardiac CT
Harbor-UCLA
J. Jeffrey Carr, MD
Professor of Radiologic Sciences
Vice Chair of Clinical Research
Wake Forest University School of Medicine
Carlo Catalano, MD
Associate Professor of Radiology
Chief of CT and MRI
Department of Radiological Sciences
Sapienza Universita di Roma
Lawrence C. Chow, MD
Associate Professor, Body Imaging
Oregon Health & Science University
Jay Cinnamon, MD
Neuroradiologist and Director, 3D Imaging
Quantum Radiation Northwest
Dianna Cody, PhD
Professor and Chief, Radiologic Physics
The UT MD Anderson Cancer Center
Bart Dolmatch, MD
Professor of Radiology
Director of Vascular and Interventional Radiology
UT-Southwestern Medical Center
James R. Earls, MD
Vice President and Medical Director
Fairfax Radiological Consultants
Fairfax, VA
Co-Director, Cardiac CT program
Inova Heart and Vascular Institute
Falls Church, VA
Michael P. Federle, MD
Chief, Abdominal Imaging Division
Department of Radiology
University of Pittsburgh Medical Center

Elliot K. Fishman, MD
Professor of Radiology and Oncology
Director, Diagnostic Radiology and Body CT
Johns Hopkins University and Hospital
W. Dennis Foley, MD
Professor of Radiology
Section Chief, Digital Imaging
Medical College of Wisconsin
Donald P. Frush, MD
Professor of Radiology and Pediatrics
Director, Division of Pediatric Radiology
Duke University School of Medicine
Richard T. George, MD
Assistant Professor of Medicine
Johns Hopkins University
Anno Grasser, MD
Research Fellow
Department of Radiology
New York University Medical Center
S. Bruce Greenberg, MD
Professor of Radiology
University of Arkansas for Medical Sciences
Arkansas Children’s Hospital
Harvey S. Hecht, MD, FACC
Director of Cardiovascular CT
Lenox Hill Heart & Vascular Institute
Willi A. Kalender, PhD
Professor
Director of the Institute of Medical Physics
University of Erlangen
Kazuhiro Katada, MD
Professor and Chairman
Department of Radiology
Fujita Health University School of Medicine
Joao A. C. Lima, MD
Assistant Professor, Medicine and Radiology
Director, Cardiovascular Imaging in Cardiology
Johns Hopkins University
Cynthia H. McCollough, PhD
Associate Professor of Radiologic Physics
Director, CT Clinical Innovation Center
Mayo Clinic College of Medicine
Axel McKenna-Kutten, MD
Department of Diagnostic Radiology
University of Erlangen
Michael F. McNitt-Gray, PhD
Professor, Department of Radiological Sciences
Director, Biomedical Physics Graduate Program
Thoracic Imaging Research Group
David Geffen School of Medicine at UCLA
Julie M. Miller, MD, FACC
Assistant Professor of Medicine
Intracranial Interventional Cardiology
Johns Hopkins University and Hospital
James K. Min, MD
Assistant Professor of Medicine
Division of Cardiology
Assistant Professor of Radiology
Director, Cardiac CT
Weil Cornell Medical College
New York Presbyterian Hospital
Takamichi Murakami, MD, PhD
Professor and Chairman
Department of Radiology
Kinki University School of Medicine
Kieran J. Murphy, MD
Associate Professor, Department of Radiology
Director of Interventional Neuroradiology
Johns Hopkins Hospital
Dianna M. E. Bardo, MD
Professor and Chairman
Department of Diagnostic Radiology
Oregon Health & Science University
Sapienza Università di Roma
Department of Radiological Sciences
Stanford University School of Medicine
Medical Director of Vascular Imaging
Baptist Cardiac & Vascular Institute
Affiliate Assistant Professor
University of South Florida College of Medicine
Mathias Prokop, MD
Professor and Chairman of Radiology
University Medical Center Utrecht
The Netherlands
Jonathan S. Reiner, MD
Professor of Medicine
Director, Cardiac Catheterization Laboratory
George Washington University Medical Center
Patrick Rogalla, MD
Head, CT Division
Department of Radiology
Charité Hospital
Universitätsmedizin, Berlin
Dushyant Sahani, MD
Assistant Professor, Harvard Medical School
Director of CT, Massachusetts General Hospital
U. Joseph Schöpf, MD
Associate Professor of Radiology and Medicine
University of South Carolina
William P. Shuman, MD, FACR
Assistant Professor and Vice Chairman
Department of Radiology
Washington University School of Medicine
Jorge A. Soto, MD
Associate Professor of Radiology
Vice Chairman, Department of Radiology
Boston University Medical Center
Megan Strother, MD
Assistant Professor of Neuroradiology
University of Toronto
Stephen E. Weisbrod, MD, MSc, FASN
Staff Nephrologist, Renal Section and Core Investigator
Center for Health Equity Research and Promotion
VA Pittsburgh Healthcare System
Assistant Professor of Medicine
Renal-Electrolyte Division
University of Pittsburgh School of Medicine
Charles S. White, MD
Professor of Radiology and Medicine
Chief of Thoracic Radiology
Department of Diagnostic Radiology
University of Maryland Medical Center
Max Wintermark, MD
Assistant Professor of Radiology
Director, UCSF NeuroCardioVascular Imaging Lab
University of California, San Francisco

University of Washington School of Medicine
William P. Shuman, MD, FACR

Professor and Chairman, Department of Radiology
Brigham and Women’s Hospital
Massachusetts General Hospital
Vanderbilt University School of Medicine
Johnny Vlahos, MB, BS, BSc
Assistant Professor of Radiology
NYU Medical Center
Steven W. Weisbrod, MD, MSc, FASN
Staff Nephrologist, Renal Section and Core Investigator
Center for Health Equity Research and Promotion
VA Pittsburgh Healthcare System
Assistant Professor of Medicine
Renal-Electrolyte Division
University of Pittsburgh School of Medicine

University of British Columbia Faculty of Medicine
Constantino S. Pena, MD

University of California, San Francisco

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Register now at http://radiologycme.stanford.edu or by calling 1-888-556-2230

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