

AMERICAN SOCIETY *of* EMERGENCY RADIOLOGY

2014 Postgraduate Course in Emergency and Trauma Radiology



September 10–13, 2014

The Nines Hotel
Portland, Oregon

PROGRAM HIGHLIGHTS

- Trauma Head-to-Toe – Two-Day Categorical Course
- Self-Assessment Module: Neuroradiology Emergencies
- Self-Assessment Module: Vascular Trauma
- 24 Hour Emergency Radiology Coverage
- Emergency Radiology Curriculum Development and MOC
- Protocols Sessions: Whole Body CT and Blunt Cerebrovascular Trauma
- Dual Energy CT and MRI in the ED



www.erad.org





COURSE OVERVIEW AND INTENDED AUDIENCE



The 2014 ASER Annual Meeting will provide a broad overview of current state-of-the-art imaging techniques to evaluate the acutely ill and injured patient. Educational sessions covering the latest advances and trends in emergency and trauma radiologic diagnosis and sessions presenting new and original scientific work are included. The meeting provides an opportunity to meet with international colleagues and discuss new and challenging aspects of emergency and trauma imaging.

The meeting is of particular interest and importance to clinical radiologists, both in the community and academic centers, delivering emergency care. Subspecialists in emergency radiology, neuroradiology, musculoskeletal radiology, chest and abdominal radiology, radiology residents and fellows, and emergency physicians at all levels of training will also find the educational and scientific material presented at the ASER meeting essential to their core and on-call knowledge base.

The “Trauma Head-to-Toe” course held on the first two days of the meeting is well-suited for radiology residents preparing for emergency radiology coverage and is an excellent review for all radiologists covering trauma centers. [The ASER is offering complimentary registration for this two-day course to the first 60 residents or fellows interested in emergency radiology who are in-training at the time of the meeting.](#)

MEETING GOALS AND LEARNING OBJECTIVES

At the conclusion of the course, attendees should be able to:

1. Identify imaging approaches to allow prompt assessment of the injured or ill patient.
2. Utilize methods to perform imaging examinations with optimal technique.
3. Develop and utilize a systematic approach to the assessment of traumatic injuries and non-traumatic injuries, from head to toe.
4. Understand and describe the issues surrounding implementation of a 24-hour emergency radiology service.
5. Apply the latest imaging technologies and techniques for the investigation of the acutely ill or unwell patient in the ED (e.g. dual energy CT, MRI, and trauma whole-body CT).



CME ACCREDITATION AND CREDIT DESIGNATION

This activity has been planned and implemented in accordance with the accreditation requirements and policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint providership of Continuing Medical Education Resources and the American Society of Emergency Radiology. Continuing Medical Education Resources is accredited by the ACCME to provide continuing medical education for physicians.

Continuing Medical Education Resources designates this live educational activity for a maximum of *30.25 AMA PRA Category 1 Credits™*. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

SELF-ASSESSMENT MODULE INFORMATION

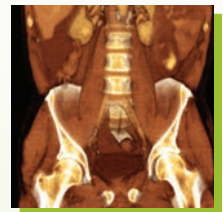
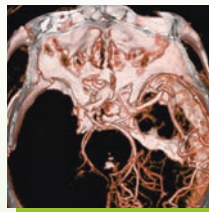
The Self-Assessment Modules (SAM) presented in this activity, “**Neuroradiology Emergencies**” and “**Trauma Head-to-Toe: Vascular Trauma**” are qualified by the American Board of Radiology in meeting the criteria for self-assessment toward the purpose of fulfilling requirements in the ABR Maintenance of Certification Program. You may register to receive MOC Credit for these sessions and pay the associated \$35 fee when registering for the course.

RETURN ON YOUR INVESTMENT

Consider the benefits received from attending this meeting:

- **Top-Quality Education:** A wide-ranging educational experience reflecting the latest advances in emergency radiology with high yield of clinically relevant information.
- **CME:** This activity is approved for *30.25 AMA PRA Category 1 Credits™*.
- **Networking:** Opportunity to grow professionally while building relationships with your peers.
- The registration fee includes teaching materials*, instruction, Welcome Reception, Annual Awards Ceremony and Reception, continental breakfasts, coffee breaks and awarding of *AMA PRA Category 1 Credits™*.

**Please note that the course syllabus will be available online. If you would like access to the presentation slides during the course, we suggest you bring your own laptop computer and/or mobile device.*





ASER 2014 FACULTY LISTING

Ashali Agrawal, MD

Teleradiology Solutions
Delhi, India

Stephan W. Anderson, MD

Boston Medical Center
Boston, MA

Ashwin V. Asrani, MD

New York Presbyterian/
Weill Cornell Medical Center
New York, NY

Laura Avery, MD

Massachusetts General Hospital
Boston, MA

Ferco H. Berger, MD

VU University Medical Center
Amsterdam, The Netherlands

Mark P. Bernstein, MD

NYU Langone Medical Center/
Bellevue Hospital
New York, NY

Sanjeev Bhalla, MD

Mallinckrodt Institute of Radiology
St. Louis, MO

Ronald M. Bilow, MD, FASER

Memorial Hermann Hospital
Houston, TX

Craig Blackmore, MD, MPH

Virginia Mason Medical Center
Seattle, WA

Marc A. Camacho, MD, MS

Sarasota Memorial Hospital
Sarasota, FL

Lovleen Cavanagh, DO

North Shore Long Island
Jewish Health System
Manhasset, NY

Suresh Cheekatla, MD

The University of Texas
Medical School at Houston
Houston, TX

Garry Choy, MD, MBA

Massachusetts General Hospital
Boston, MA

Lee Collins, MD

Long Island Jewish Medical Center
New Hyde Park, NY

Gary Danton, MD, PhD

Jackson Memorial Hospital
Miami, FL

Jeffrey Dunkle, MD

Indiana University
School of Medicine
Indianapolis, IN

William K. Erly, MD

University of Arizona
Health Sciences Center
Tucson, AZ

Kathleen R. Fink, MD

Harborview Medical Center
Seattle, WA

Joel A. Gross, MD

Harborview Medical Center
Seattle, WA

Martin Gunn, MB ChB, FRANZCR

Harborview and University of
Washington Medical Centers
Seattle, WA

Stephen F. Hatem, MD

Cleveland Clinic
Cleveland, OH

Matthew T. Heller, MD

UPMC - Presbyterian
University Hospital
Pittsburgh, PA

Susan D. John, MD

Children's Memorial Hermann Hospital
Houston, TX

Jamlik-Omari Johnson, MD

Emory Healthcare
Atlanta, GA

Michele H. Johnson, MD

Yale-New Haven Hospital
New Haven, CT

Douglas S. Katz, MD, FACR

Winthrop University Hospital
Mineola, NY

Bharti Khurana, MD

Brigham and Women's Hospital
Boston, MA

Digna R. Kool, MD

Slingeland Hospital
Doetinchem, The Netherlands

Wayne S. Kubal, MD

Arizona Health Sciences Center
Tucson, AZ

Manickam Kumaravel, MD, FRCR

Memorial Hermann Hospital
Houston, TX

Stephen Ledbetter, MD, MPH

Brigham and Women's Faulkner Hospital
Boston, MA

Bruce E. Lehnert, MD

Harborview Medical Center
Seattle, WA

Ken F. Linnau, MD, MS

Harborview Medical Center
Seattle, WA

Charles R. Luttenton, MD, FACR

Spectrum Health
Grand Rapids, MI



F.A. Mann, MD

Integra Imaging, PS
Seattle, WA

Vincent M. Mellnick, MD

Mallinckrodt Institute of Radiology
St. Louis, MO

Stuart E. Mirvis, MD, FACR

R. Adams Cowley Shock Trauma
Center, University of Maryland
Baltimore, MD

Felipe Munera, MD

Jackson Memorial Hospital-
Ryder Trauma Center
Miami, FL

Savvas Nicolaou, MD, FRCPC

Vancouver General Hospital
Vancouver, British Columbia,
Canada

Koenraad (Hans) Nieboer, MD

Universitair Ziekenhuis Brussel
Brussels, Belgium

Robert A. Novelline, MD, FACR

Massachusetts General Hospital
Boston, MA

Diego B. Nuñez, MD, MPH

Yale-New Haven Hospital
New Haven, CT

Pari Pandharipande, MD, MPH

Massachusetts General Hospital
Boston, MA

Ellen S. Park, MD

Cleveland Clinic
Cleveland, OH

Michael N. Patlas, MD, FRCPC

Hamilton General Hospital
Hamilton, Ontario, Canada

Perry J. Pickhardt, MD

University of Wisconsin
School of Medicine and
Public Health
Madison, WI

Pierre-Alexandre A. Poletti, MD

Hôpitaux Universitaires de Genève
Geneva, Switzerland

Stefan Puig, MD, MSc

University Institute of Diagnostic,
Interventional and
Pediatric Radiology
Berne, Switzerland

Constantine A. Raptis, MD

Washington University Physicians
St. Louis, MO

Sravanthi Reddy, MD

Los Angeles County –
USC Medical Center
Los Angeles, CA

Claire K. Sandstrom, MD

Harborview Medical Center
Seattle, WA

K. Shanmuganathan, MD

R. Adams Cowley Shock Trauma
Center, University of Maryland
Baltimore, MD

Steven A. Shea, PhD

Oregon Health and
Science University
Portland, OR

Annan M. Sheikh, MD

Ottawa Hospital
Ottawa, Ontario, Canada

Ajay Singh, MD

Massachusetts General Hospital
Boston, MA

Carlos J. Sivit, MD

Rainbow Babies and
Children's Hospital
Cleveland, OH

Clint W. Sliker, MD

R. Adams Cowley Shock Trauma
Center, University of Maryland
Baltimore, MD

Aaron Sodickson, MD, PhD

Brigham and Women's Hospital
Boston, MA

Jorge A. Soto, MD

Boston Medical Center
Boston, MA

Scott Steenburg, MD

Indiana University School of
Medicine - Indiana University
Indianapolis, IN

Johnny Vlahos, MD, FRCR

St. George's Hospital
London, United Kingdom

O. Clark West, MD, FACR

Memorial Hermann Hospital –
Texas Medical Center
Houston, TX

Anthony J. Wilson, MB ChB

Spanaway, WA

Joseph S. Yu, MD

Wexner Medical Center at
The Ohio State University
Columbus, OH



DAILY 9/10/14 - 9/13/14

7:15 AM – 8:00 AM	Continental Breakfast
7:15 AM – 5:30 PM	Registration, Scientific and Educational Posters, Cases-of-the-Day and Exhibit Hours

WEDNESDAY 9/10/2014

8:00 AM – 8:05 AM	Welcome and Opening Remarks	Susan D. John, MD
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Founders' Session *Moderators: F.A. Mann, MD; O. Clark West, MD, FACR*

8:05 AM – 8:15 AM	Introduction of Craig Blackmore, MD, MPH	F.A. Mann, MD
8:15 AM – 8:45 AM	Founders' Speaker: The Quality Movement (or Making Radiology Fun Again!)	Craig Blackmore, MD, MPH
8:45 AM – 9:10 AM	Transitioning to 24/7 Coverage	Stephen Ledbetter, MD, MPH
9:10 AM – 9:35 AM	Sleep and 24 Hour Coverage	Steven A. Shea, PhD
9:35 AM – 9:37 AM	Introduction of Practice Models	O. Clark West, MD, FACR
9:37 AM – 9:44 AM	Panel Member A: Staffing Matrix	Jeffrey Dunkle, MD
9:44 AM – 9:51 AM	Panel Member B: Academic Emergency Radiology and Overnight Coverage	Aaron Sodickson, MD, PhD
9:51 AM – 9:58 AM	Panel Member C: Teleradiology	Anjali Agrawal, MD
9:58 AM – 10:05 AM	Panel Member D: Emergency Radiology Night Shift in 2 Health Systems: How Financial Realities Shape the Coverage Model	O. Clark West, MD, FACR

10:05 AM – 10:15 AM	Question and Answer Session
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10:15 AM – 10:30 AM	Break and Poster Presentation Session I
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Trauma Head-to-Toe: Spine Trauma *Moderators: Joel A. Gross, MD; Diego B. Nuñez, MD, MPH*

10:30 AM – 10:55 AM	Spine Development, Anatomy, Anomalies and Foolers	Joel A. Gross, MD
10:55 AM – 11:20 AM	Imaging of Cervical Spine Trauma	Laura Avery, MD
11:20 AM – 11:45 AM	Imaging of Thoracolumbar Spine Trauma	Bharti Khurana, MD
11:45 AM – 11:55 AM	Question and Answer Session	
11:55 AM – 12:10 PM	Break and Poster Presentation Session II	
12:10 PM – 1:10 PM	ASER Lunch with Scientific Session I (Closed Session - Members Only) <i>Moderator: Lovleen K. Cavanagh, DO</i>	
1:10 PM – 1:25 PM	Break	

Trauma Head-to-Toe: Thoracic Trauma *Moderator: Sravanthi Reddy, MD*

1:25 PM – 1:50 PM	Imaging of Penetrating Transmediastinal Trauma	Martin Gunn, MB ChB, FRANZCR
1:50 PM – 2:15 PM	Imaging Thoracic Trauma	Johnny Vlahos, MD, FRCR
2:15 PM – 2:40 PM	Cardiac Trauma	Sanjeev Bhalla, MD
2:40 PM – 2:50 PM	Question and Answer Session	
2:50 PM – 3:05 PM	Break and Poster Presentation Session III	

Trauma Head-to-Toe: Self-Assessment Module – Vascular Trauma *Moderator: Ronald M. Bilow, MD, FASER*

3:05 PM – 3:40 PM	Vascular Trauma SAM: Peripheral Vessels	Stephan W. Anderson, MD
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3:40 PM – 4:15 PM	Vascular Trauma SAM: Torso	Felipe Munera, MD
4:15 PM – 4:50 PM	Vascular Trauma SAM: Above the Clavicles	Clint W. Sliker, MD
4:50 PM – 4:55 PM	BCVI: Our Protocols 1	Clint W. Sliker, MD
4:55 PM – 5:00 PM	BCVI: Our Protocols 2	Felipe Munera, MD
5:00 PM – 5:05 PM	BCVI: Our Protocols 3	Martin Gunn, MB ChB, FRANZCR
5:05 PM – 5:10 PM	BCVI: Our Protocols 4	Savvas Nicolaou, MD, FRCPC
5:10 PM – 5:25 PM	Question and Answer Session	
5:25 PM	Adjourn	
5:45 PM – 7:15 PM	Welcome Reception	

THURSDAY 9/11/2014		
7:30 AM – 7:55 AM	Wednesday Case-of-the-Day Presentations	<i>Moderator: Pierre-Alexandre A. Poletti, MD</i>
7:55 AM – 8:00 AM	Break	
Trauma Head-to-Toe: Musculoskeletal Trauma <i>Moderator: Stephen F. Hatem, MD</i>		
8:00 AM – 8:25 AM	MRI of Shoulder Instability	Joseph S. Yu, MD
8:25 AM – 8:50 AM	Wrist and Hand Trauma	Anthony J. Wilson, MB ChB
8:50 AM – 9:15 AM	Pelvic and Acetabular Fractures	Ken F. Linnau, MD, MS
9:15 AM – 9:40 AM	Syndesmotic Injuries, Hind and Mid-Foot Trauma	Adnan M. Sheikh, MD
9:40 AM – 9:50 AM	Question and Answer Session	
9:50 AM – 10:05 AM	Break and Poster Presentation Session IV	
Trauma Head-to-Toe: Neurotrauma <i>Moderator: Kathleen R. Fink, MD</i>		
10:05 AM – 10:30 AM	MRI of Posttraumatic Intracranial Hemorrhage	Koenraad (Hans) Nieboer, MD
10:30 AM – 10:45 AM	Minor Traumatic Brain Injury	K. Shanmuganathan, MD
10:45 AM – 11:10 AM	Imaging Maxillofacial Trauma	William K. Erly, MD
11:10 AM – 11:35 AM	Penetrating Neck Injuries	Scott Steenburg, MD
11:35 AM – 12:00 PM	Neurotrauma: Case-Based	Gary Danton, MD, PhD
12:00 PM – 12:10 PM	Question and Answer Session	
12:10 PM – 12:25 PM	Break and Poster Presentation Session V	
12:25 PM – 1:25 PM	ASER Lunch with Scientific Session II (Closed Session - Members Only)	<i>Moderator: Pierre-Alexandre A. Poletti, MD</i>
1:25 PM – 1:40 PM	Break	
Trauma Head-to-Toe: Abdominal Trauma <i>Moderators: Ashwin V. Asrani, MD; Felipe Munera, MD</i>		
1:40 PM – 2:05 PM	Imaging of Blunt Pancreatic and Duodenal Injuries	Savvas Nicolaou, MD, FRCPC
2:05 PM – 2:20 PM	Small Bowel, Colon, and Mesenteric Injury: Cases	K. Shanmuganathan, MD
2:20 PM – 2:45 PM	Retrograde Urethrography – The Exam No One Talks About, but Should	O. Clark West, MD, FACR
2:45 PM – 3:10 PM	Mistakes in Interpretation of Abdominal Trauma: Case-Based	Michael N. Atlas, MD, FRCPC
3:10 PM – 3:20 PM	Question and Answer Session	
3:20 PM – 3:35 PM	Break and Poster Presentation Session VI	



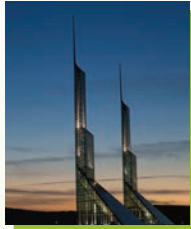
Trauma Head-to-Toe: General Trauma Radiology Moderator: <i>Martin Gunn, MB ChB, FRANZCR</i>		
3:35 PM – 4:00 PM	Imaging the Pregnant Trauma Patient	Mark P. Bernstein, MD
4:00 PM – 4:25 PM	Imaging of Blast Injuries	Ajay Singh, MD
4:25 PM – 4:50 PM	Whole Body CT: Indications and Outcomes	Digna R. Kool, MD
4:50 PM – 4:57 PM	Our Scan Protocol: Whole Body CT	K. Shanmuganathan, MD
4:57 PM – 5:04 PM	Our Scan Protocol: Whole Body CT	Savvas Nicolaou, MD, FRCPC
5:04 PM – 5:11 PM	Our Scan Protocol: Whole Body CT	Aaron Sodickson, MD, PhD
5:11 PM – 5:18 PM	Our Scan Protocol: Whole Body CT	Ferco H. Berger, MD
5:18 PM – 5:30 PM	Question and Answer Session	
5:30 PM	Adjourn	
6:00 PM – 7:30 PM	Siemens Medical Solutions USA Satellite Symposium and Reception	

FRIDAY 9/12/2014		
7:00 AM – 7:30 AM	ASER Business Meeting	
7:30 AM – 7:55 AM	Thursday Case-of-the-Day Presentations Moderator: <i>Claire K. Sandstrom, MD</i>	
7:55 AM – 8:00 AM	Break	
Pediatric Imaging Moderator: <i>Susan D. John, MD</i>		
8:00 AM – 8:25 AM	Chest Emergencies in Children	Susan D. John, MD
8:25 AM – 8:50 AM	Overuse Injuries in Young Athletes	Carlos J. Sivit, MD
8:50 AM – 9:15 AM	Work Up of Soft Tissue Lesions in Children in the ED	Ellen S. Park, MD
9:15 AM – 9:40 AM	Ultrasound of the Acute Abdomen	
9:40 AM – 9:50 AM	Question and Answer Session	
9:50 AM – 10:05 AM	Break and Poster Presentation Session VII	
Self-Assessment Module – Neuroradiology Emergencies Moderator: <i>Wayne S. Kubal, MD</i>		
10:05 AM – 10:30 AM	Intracranial Infection	Kathleen R. Fink, MD
10:30 AM – 10:55 AM	Non-traumatic Intracranial Hemorrhage	Michele H. Johnson, MD
10:55 AM – 11:20 AM	Face and Neck Infection: What You Really Need to Know	Wayne S. Kubal, MD
11:20 AM – 11:30 AM	Question and Answer Session	
General Radiology Moderators: <i>Jeffrey Dunkle, MD; Stephen Ledbetter, MD, MPH</i>		
11:30 AM – 11:55 AM	Enhancing your CT Practice with Dual Energy in the ER	Aaron Sodickson, MD, PhD
11:55 AM – 12:20 PM	Understanding and Using Routine Practice Data	Jeffrey Dunkle, MD
12:20 PM – 12:45 PM	Defining the Scope of Emergency Radiology for Curriculum Planning and MOC	Robert A. Novelline, MD, FACR
12:45 PM – 1:10 PM	Developing an Erad Fellowship Curriculum	Jamlik-Omari Johnson, MD
1:10 PM – 1:20 PM	Question and Answer Session	
1:20 PM	Adjourn	



SATURDAY 9/13/2014

7:30 AM – 7:55 AM	Friday Case-of-the-Day Presentations <i>Moderator: Claire K. Sandstrom, MD</i>	
7:55 AM – 8:00 AM	Break	
Abdominal and Pelvic Imaging <i>Moderators: Suresh Cheekatla, MD; Aaron Sodickson, MD, PhD</i>		
8:00 AM – 8:25 AM	Imaging of Crohn's Disease in the ED	Jorge A. Soto, MD
8:25 AM – 8:50 AM	MRI of the Appendix	Perry J. Pickhardt, MD
8:50 AM – 9:15 AM	CT of the Acute Female Pelvis	Douglas S. Katz, MD, FACR
9:15 AM – 9:40 AM	Acute Perineum and Scrotum	Matthew T. Heller, MD
9:40 AM – 9:50 AM	Question and Answer Session	
9:50 AM – 10:05 AM	Break and Poster Presentation Session VIII	
Miscellaneous / Multi System <i>Moderator: Ferco H. Berger, MD</i>		
10:05 AM – 10:30 AM	Radiation Dose History	Pari Pandharipande, MD, MPH
10:30 AM – 10:55 AM	Clinical Decision Support	Bruce E. Lehnert, MD
10:55 AM – 11:20 AM	MRI of Musculoskeletal Emergencies	Manickam Kumaravel, MD, FRCR
11:20 AM – 11:45 AM	Unusual ED Cases	Stuart E. Mirvis, MD, FACR
11:45 AM – 11:55 AM	Question and Answer Session	
11:55 AM – 12:10 PM	Break and Poster Presentation Session IX	
12:10 PM – 1:10 PM	ASER Lunch with Scientific Session III (Closed Session for Members Only) <i>Moderator: Charles R. Luttenton, MD, FACR</i>	
1:10 PM – 1:35 PM	Saturday Case-of-the-Day Presentations <i>Moderator: Claire K. Sandstrom, MD</i>	
Thoracic and Vascular <i>Moderators: Marc A. Camacho, MD, MS; Jorge A. Soto, MD</i>		
1:35 PM – 2:00 PM	Esophageal Emergencies	Vincent M. Mellnick, MD
2:00 PM – 2:25 PM	Aortic CT Beyond Dissection	Constantine A. Raptis, MD
2:25 PM – 2:50 PM	MRA for Pulmonary Embolism	Stefan Puig, MD, MSc
2:50 PM – 3:15 PM	Cardiac CTA Cases in the Emergency and Acute Setting	Garry Choy, MD, MBA
3:15 PM – 3:40 PM	Thoracic Emergencies: Case-Based	Marc A. Camacho, MD, MS
3:40 PM – 3:50 PM	Question and Answer Session	
3:50 PM	Adjourn	
5:00 PM – 8:00 PM	Awards Ceremony and Closing Reception	





REGISTRATION INFORMATION

Register now at www.erad.org!

There are three easy ways to register:

- By internet at www.erad.org
- By fax at 713.960.0488*
- By mail at ASER Annual Meeting, 4550 Post Oak Place, Suite 342, Houston, Texas 77027*

*A hardcopy registration form is available on the Society website. However, please note that there is an additional fee of \$20 if you register by mail or fax. Save time and the extra fee by registering online.

Registration Fees

	On or Before 8/3/14	After 8/3/14	One Day	On-Site†
ASER Member	\$645	\$745	\$250	\$770
Non-Member (Physician)	\$795	\$895	\$300	\$920
ASER Member-in-Training*	\$370	\$470	\$125	\$495
Non Member-in-Training*	\$470	\$570	\$150	\$595
Allied Health Professional**	\$470	\$570	\$150	\$595
Two-Day Trauma				
Head-to-Toe Course***	Complimentary			

*Proof of resident and fellow status must be emailed to aser@meetingmanagers.com.

**Certificates of attendance will be available.

***The ASER is offering complimentary registration for this two-day course to the first 60 residents or fellows interested in emergency radiology who are in-training at the time of the meeting. Proof of resident and fellow status must be emailed to aser@meetingmanagers.com.

Optional Activities

Guest Daily Continental Breakfasts	\$120
Self-Assessment Module – SAM Credit	\$35
Brew Bus Tour	\$100
Northwest Wine Tour	\$100

*Please visit www.erad.org for a detailed description of the social events.

Registration Dates

The early bird advanced registration deadline is **Sunday, August 3rd**. Registrations received after this date will be charged an additional \$100, as noted in the registration fees.

†Online registration will close Friday, August 29th. After this date, attendees must register on-site and pay on-site registration fees.




Registration Cancellation Policy

A \$100 administrative fee will be retained if you cancel your meeting registration for any reason. In order to receive a refund of the balance, written notice must be received no later than **Wednesday, August 27th**. No refunds will be made after this date.

MEETING MANAGEMENT

Angie Guy, MPA
Meeting Manager
International Meeting Managers, Inc.
4550 Post Oak Place, Suite 342
Houston, TX 77027
713.965.0566 Phone
713.960.0488 Fax
aser@meetingmanagers.com

 If you have any special needs, please contact IMM at the above address in writing at least two weeks before the meeting to ensure that your needs will be met.

HOTEL AND TRAVEL INFORMATION

The Nines

525 SW Morrison St.
Portland, Oregon 97204
Reservations: 1.888.627.7208

\$209.00 Single/Double Standard Room
(Applicable taxes, currently 14.5%)
Group block deadline: August 18



Please visit www.erad.org for detailed hotel and travel information including discount codes for travel arrangements.

The American Society of Emergency Radiology
c/o International Meeting Managers, Inc.
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Houston, Texas 77027

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THE AMERICAN SOCIETY *of* EMERGENCY RADIOLOGY

2014 Postgraduate Course in Emergency and Trauma Radiology



WHAT IS THIS?

This symbol is called a “QR code” and it enables your smartphone to instantly access the meeting website. To use it, you will need to download a free QR app (available from your phone’s application store) if you do not already have one. Next, take a photo of the QR code and you will be connected to the meeting website.