Dear ASNR Members, Visitors, and Neuroscience Colleagues:

I am happy to invite you to the American Society of Neuroradiology 50th Anniversary meeting. For this special event the Society is returning to its birthplace in New York City. The Meeting will be held April 21-26 at the Hilton New York, in the heart of Manhattan. President-Elect and Program Chair, Pamela Schaefer, MD, and the Program Committee have planned an exciting symposium and scientific program, along with special celebrations of our 50th year of organized American neuroradiology.

The Foundation of the ASNR Symposium 2012 “Acute Ischemic Stroke Imaging,” is at the heart of neuroradiology and will feature speakers with expertise across the range of adult and pediatric brain ischemia. We will continue to offer a Saturday morning session in collaboration with the International Society of Magnetic Resonance in Medicine (ISMRM). This mini symposium on “Advanced MR Imaging of Acute Ischemic Stroke” will feature new techniques and emerging new technologies that increasingly are applied to stroke.

The 2012 Annual Meeting will provide informative updates on general neuroradiology and showcase subspecialty programming from the ASFNR, ASHNR, ASPNR, ASSR, and SNIS. As always, the heart of the meeting will be the invited lectures, original presentations, scientific posters, and educational exhibits. After a record number of abstract submissions, I can promise you more new and exciting material than ever before.

There will be approximately 50 hours of continuing medical education credit available (See pages 4 and 5 for details), including Self-Assessment Module (SAM) sessions, Maintenance of Certification (MOC) interactive audience response technology case reviews, and new Expert: “How I Do It” sessions with practical clinical approaches to common imaging challenges. We will again feature valuable non-CME “How To Sessions” sponsored by our commercial partners, updating you on the capabilities and use of their hardware and software. Our Synaptic Function this year will feature talks on practical issues in neuroradiology, including MR Safety for Patients with Implants, DTI for Dummies, Dose Extraction (for monitoring patient exposure), and a lively session on Communicating Results Directly to Patients. In response to rapid changes in the economic and health care environments, we will continue to feature programming on socioeconomic issues facing neuroradiology and practice quality improvement. We will expand our programming specific to residents, fellows and other young professionals.

In celebration of our 50th Anniversary we have planned some outstanding special events including reviews of the history of the field and the Society, where we are headed in the future, recognition of our founders and early members, a Keynote address from one of our notable leaders in Neuroradiology, and an unforgettable 50th Anniversary Reception at The Museum of Modern Art.

Among its most valuable functions, the Annual Meeting will be the ideal opportunity to stay connected with friends and colleagues and get the latest in brain, spine, and head and neck imaging. As befits a golden anniversary, this will be a truly unique event. I look forward to seeing you there!

David B. Hackney, MD, FACP
ASNR President

ASNR President Invitation Letter
ASNR Symposium 2012 Faculty
At-A-Glance Scientific Program
ASNR Future Annual Meetings
Hotel Room Reservation Form
ASNR 50th Annual Meeting & The Foundation of the ASNR
Click here to register!
Jump to a new section:
Hilton New York Hotel
ASNR 50th Anniversary Reception at The Museum of Modern Art.
ASNR 50th Annual Meeting & The Foundation of the ASNR Symposium 2012

The Executive Committee of the ASNR invites you to celebrate in the city of the ASNR’s founding and share in the exciting milestone of our 50th Annual Meeting, April 21-26, 2012. Our Meeting venue for the weeks is the beautifully redesigned and exquisite Hilton New York, a showcase midtown Manhattan hotel. The hotel features spacious accommodations and is just steps away from Radio City Music Hall, Central Park, Rockefeller Center and the city’s dynamic business and media center. Discover New York and all the excitement of a culturally diverse world-class and historic city from the refined elegance of the chic Hilton New York.

Highlights


• Advanced Imaging Seminar Programming – Focused daily didactic sessions (Monday – Wednesday) with in-depth review of Molecular Neuroradiology, Neurotransmitters and Imaging, Faster and Faster and other emerging imaging techniques.

• How-To Sessions with expanded “Hands-on” experiences with image analysis and review on vendor specific workstations.

• Grant Writing Strategy Workshop.

• Socioeconomic Programming including the impact of federal health care reform on Neuroradiology, Performance Measures, and MOC.

• Comparative Effectiveness and Evidence Based Medicine in Neuroradiology Sessions.

• Scientific Posters, Education Exhibits, Electronic Education Exhibits (eEdE’s) and Guided Poster Tours.

• Technical Exhibits showcasing new technologies and equipment offering a full range of service and equipment providers dedicated to the field of neuroradiology.

• Proposed Self-Assessment Module (SAM) Session Programming throughout the week.

• Maintenance of Certification (MOC) Daily Review Sessions highlighting Pediatrics, Head and Neck, Cerebrovascular and Spine.

• Earn approximately 50 credit hours of Continuing Medical Education (CME) hours.

• Make sure you register if you would like to attend the receptions (refer to pg. 17 for more information)

Food Service:

• Saturday & Sunday: ASNR will provide Morning & Afternoon Beverage Breaks. Breakfast & Lunch on own.

• Monday through Thursday: ASNR will provide Breakfast, Morning & Afternoon Beverage Breaks. Lunch on own.
### Preliminary Scientific Program Schedule At-A-Glance (as of 11/18/11)

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<td><strong>The Foundation of the ASNR Symposium 2012: Acute Ischemic Stroke Imaging</strong></td>
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<td><strong>ASNR 50th Annual Meeting</strong> (ASNR/ASPNR)</td>
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<td><strong>Morning Break</strong></td>
<td><strong>Stroke Recovery</strong></td>
<td><strong>General Programming: CNS Infections</strong></td>
<td><strong>Synaptic Junction Programming: MR Safety</strong></td>
<td><strong>Young Professionals Programming: Entering and Thriving in Community Practice</strong></td>
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<td><strong>Lunch on Own</strong></td>
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<td>Welcome &amp; Introductions</td>
<td>ASPNR Programming: Advanced Pediatric Neuroradiology Techniques</td>
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<td>SNIS Programming: Venous Disease</td>
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<td>Advanced CT Imaging of Acute Ischemic Stroke</td>
<td>Where Should We Spend Our Dollars?</td>
<td>Socioeconomic Programming: Healthcare/Payment Methodology/Health Services</td>
<td>SNIS Programming: Skull Base</td>
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<td>General Programming: CNS Infections</td>
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<td>ASNR Programming: Advanced Imaging of the Spine and Disk</td>
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<td>Therapy-Treatment Approaches</td>
<td>Pediatric Stroke</td>
<td>Parallel Scientific Paper Sessions</td>
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<td>SNIS Programming: Carotid Disease (SAM #6)</td>
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<td><strong>The Foundation of the ASNR Symposium 2012 Wrap up</strong></td>
<td><strong>ASPNR Programming: Pediatrics Head &amp; Neck (SAM #2) (AR)</strong></td>
<td><strong>Grant Writing Seminar</strong></td>
<td><strong>ASSR Programming: Epidemiology Basis for Spine Imaging and Interventions</strong></td>
<td>General Programming: Mild Traumatic Brain Injury</td>
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<td><strong>Advanced Imaging Seminar</strong></td>
<td><strong>General Programming: Aneurysms</strong></td>
<td><strong>ASHNR Programming: Temporal Bone</strong></td>
<td><strong>Closing Remarks</strong></td>
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<td><strong>SNIS Programming: Dural Arteriovenous Fistulae</strong></td>
<td><strong>What is Quality? ... Perspectives from Patient, the Players and (Least Importantly) Us! (SAM #3) (AR)</strong></td>
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<td><strong>Synaptic Junction Programming: Communications Results</strong></td>
<td><strong>Advanced Imaging Seminar</strong></td>
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<td><strong>Advanced Imaging Seminar</strong></td>
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*Programming is currently under review for approval for Self Assessment Module (SAM) credit through the American Board of Radiology (ABR). See www.asnr.org/2012 for information and updates.*

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**Saturday & Sunday:** ASNR will provide Morning & Afternoon Beverage Breaks. Breakfast & Lunch on own.

**Monday through Thursday:** ASNR will provide Breakfast, Morning & Afternoon Beverage Breaks. Lunch on own.
The Foundation of the ASNR Symposium 2012

Advanced MR Imaging of Acute Ischemic Stroke • The Foundation of the ASNR Symposium 2012: Acute Ischemic Stroke Imaging

Accreditation Statement
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Credit Designation Statement
The American Society of Neuroradiology designates this live activity for a maximum of 14.5 AMA PRA Category 1 Credit(s)™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Target Audience
ISMRM and The Foundation of the ASNR 2012 will focus on the biology, diagnosis, classifications, imaging, and management of acute ischemic stroke. There will be lectures on the pathophysiology of acute ischemic stroke, stroke classifications strategies, transient ischemic attacks and stroke mimics. The Symposium will cover basic and advanced MR imaging techniques including diffusion weighted imaging, diffusion tensor imaging, dynamic contrast enhanced and arterial spine labeling perfusion imaging, MR spectroscopy, susceptibility weighted imaging and blood oxygen level dependent imaging. Advanced CT imaging techniques including CT angiography and CT perfusion as well as dose reduction strategies will be presented. Nuclear medicine and molecular imaging techniques will be discussed. Additional lectures will address imaging the carotid artery with ultrasound, CTA, MRA and DSA with a focus on vulnerable plaque imaging. Treatment including intra-arterial recanalization strategies, intravenous thrombolytic therapy, and supportive therapy and an update on clinical trials will be presented. A final session will be dedicated to pediatric stroke.

Overall Symposium Objectives
• Select appropriate imaging studies for the evaluation of acute ischemic stroke patients
• Explain and interpret imaging studies of acute ischemic stroke patients
• Apply knowledge of the pathophysiology of acute ischemic stroke and stroke classifications strategies to the interpretation of imaging studies
• Utilize clinical and neuroimaging evaluations to determine appropriate treatment strategies for acute ischemic stroke patients
• Differentiate stroke from stroke mimics with neuroimaging and clinical assessment
• Identify dose reduction strategies when evaluating acute stroke patients with advanced CT Imaging
ISM RM Faculty
Roland Bammer, PhD
Stanford University
Jean-Claude Baron, MD, ScD
University of Cambridge, United Kingdom / University of Paris, France
John W. Chen MD, PhD
Massachusetts General Hospital
R. Gilberto Gonzalez, MD, PhD
Massachusetts General Hospital
Weili Lin, PhD
Biomedical Research Imaging Center / University of North Carolina at Chapel Hill
David J. Mikulis, MD
The Toronto Western Hospital / University of Toronto, Canada
Michael A. Moskowitz, MD
Harvard Medical School
Peter van Zijl, PhD
Johns Hopkins University Medical School
Greg Zaharchuk, MD, PhD
Stanford University / Stanford University Hospital

The Foundation of the ASNR Symposium Faculty
Gregory W. Albers, MD
Stanford University Medical Center
Richard I. Aviv, MBChB, MRCP, FRCP
Sunnybrook Health Sciences Centre, Canada
Alex R. Carter, MD, PhD
Washington University School of Medicine
Steven C. Cramer, MD
University of California, Irvine
Colin P. Derdeyn, MD
Mallinckrodt Institute of Radiology
Stephanie R. Earnshaw, PhD
RTI Health Solutions
Donald F. Frei, Jr., MD
Radiology Imaging Associates
Mayank Goyal, MD
Foothills Medical Centre, Canada
P. Ellen Grant, MD
Children's Hospital Boston
David M. Greer, MD, MA, FCCM
Yale School of Medicine
Thomas P. Jacobs, PhD
National Institute of Neurological Disorders & Stroke / National Institutes of Health
Tudor G. Jovin, MD
University of Pittsburgh Medical Center
Michael H. Lev, MD
Massachusetts General Hospital / Harvard Medical School
Neel Madan, MD
Tufts Medical Center
Stuart R. Pomerantz, MD
Massachusetts General Hospital
Michael J. Rivkin, MD
Children's Hospital Boston / Harvard Medical School
Pamela W. Schaefer, MD
Massachusetts General Hospital
Gottfried Schlaug, MD, PhD
Beth Israel Deaconess Medical Center / Harvard Medical School
Sean P. Symons, MD, MPH, FRCPC
Sunnybrook Health Science Centre, Canada
Thomas A. Tomsick, MD
University of Cincinnati Medical Center
Arastoo Vossough, MD, PhD
University of Pennsylvania / Children's Hospital of Philadelphia
Max Wintermark, MD
University of Virginia
Ona Wu, PhD
Massachusetts General Hospital Athinoula A. Martinos Center for Biomedical Imaging
Albert J. Yoo, MD
Massachusetts General Hospital
### Saturday, April 21

**8:00am-10:15am**
- **Advanced MR Imaging of Acute Ischemic Stroke - Part I**
  - Welcome and Introductions
  - Pamela W. Schaefer, MD

**8:10am-8:35am**
- Pathophysiology of Acute Stroke and Summary of Neuroprotective Treatment Strategies: Animal Models and Molecular Mechanisms
  - Michael A. Moskowitz, MD

**8:35am-9:00am**
- In Vivo Pathophysiology and Acute Ischemic Stroke - The Human Condition
  - Jean-Claude Baron, MD, ScD

**9:00am-9:25am**
- Diffusion-Weighted Imaging/DTI
  - R. Gilberto Gonzalez, MD, PhD

**9:25am-9:50am**
- DSC Perfusion-Weighted Imaging in Ischemic Stroke
  - Roland Bammer, PhD

**9:50am-10:15am**
- ASL Imaging of Acute Ischemic Stroke and TIA
  - Greg Zaharchuk, MD, PhD

**10:15am-10:30am**
- Morning Beverage Break

**10:30am-12:30pm**
- **Advanced MR Imaging of Acute Ischemic Stroke - Part II**
  - MR CMR 02 of Acute Ischemic Stroke
    - Weili Lin, PhD
  - Molecular MR Imaging of Acute Ischemic Stroke
    - John W. Chen, MD, PhD
  - PH Imaging in Acute Ischemic Stroke
    - Peter van Zijl, PhD
  - Chronic Neurovascular Uncoupling Syndrome
    - David J. Mikulis, MD

**12:10pm-12:30pm**
- Questions & Answers

### Sunday, April 22

**8:00am-10:00am**
- **Hot Topics in Stroke Imaging**
  - Welcome and Introductions
    - Pamela W. Schaefer, MD
  - Wake up Strokes
    - Ona Wu, PhD
  - Transient Ischemic Attacks
    - Gregory W. Albers, MD

**9:10am-9:30am**
- Permeability Imaging in Acute Ischemic Stroke
  - Richard I. Aviv, MBChB, MRCP, FRCR

**9:50am-10:00am**
- Questions and Answers

**10:00am-10:30am**
- **Morning Beverage Break**

**10:30am-12:00pm**
- **Stroke Recovery**
  - Mechanisms of Stroke Recovery
    - Alex R. Carter, MD, PhD
  - Stroke Recovery Restorative Therapies and Patient Management
    - Steven C. Cramer, MD

**1:15pm-2:30pm**
- **Where Should We Spend Our Dollars?**
  - NIH Funding Priorities
    - Thomas P. Jacobs, PhD
  - Cost-Effectiveness in Stroke Imaging
    - Stephanie R. Earnshaw, PhD

**3:00pm-6:00pm**
- **Pediatric Stroke**
  - A Clinical Overview of Stroke in Children
    - Michael J. Rivkin, MD
  - Neonatal Stroke
    - P. Ellen Grant, MD
  - Arterial Stroke and Arterial Vascular Disease in Children
    - Arastoo Vossough, MD, PhD

**4:00pm-4:20pm**
- Venous Stroke and Venous Disease
  - Neel Madan, MD

**4:30pm-4:45pm**
- Panel Discussion

**4:50pm-5:10pm**
- Bridging Therapy
  - Thomas A. Tomiuk, MD

**5:30pm-5:50pm**
- ICU Management of Acute Stroke Patients- Medical and Surgical Care, Including When To Image
  - Tudor G. Jovin, MD

**5:50pm-6:00pm**
- Panel Discussion
ASNR 50th Annual Meeting

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Credit Designation Statement

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Target Audience

The 50th Annual Meeting is the premier Neuroradiology meeting in the world. It is designed for general radiologists who read Neuroradiology studies, dedicated neuroradiologists who strive to better integrate advanced imaging and image-guided diagnostic and therapeutic strategies into daily practice, and scientists who seek better understanding of the current state of these technologies and how they are applied to evaluate the brain, spine, and head and neck. All participants will benefit from exchange of ideas with colleagues from around the world. Programming will include invited talks and original presentations of new results in imaging methods and techniques such as MR diffusion and perfusion weighted imaging, susceptibility weighted imaging, magnetic resonance spectroscopy, functional magnetic resonance imaging, MR angiography, CT perfusion, CT angiography, CT interactive reconstruction techniques, dual energy CT, catheter-based angiography and associated therapies, image-guided spine interventions, molecular imaging and positron emission tomography. Sessions dealing with pediatric neuroradiology, head and neck imaging, diagnostic imaging of the spine and spinal therapeutic interventions, vascular imaging and interventions, functional and molecular imaging, and adult neuroradiology will be offered. There will also be sessions on multiple relevant socioeconomic and practice management issues.

Overall Objectives for the 50th Annual Meeting

After attending the 50th Annual Meeting, you will be able to:

- Analyze the clinical spectrum and imaging finding associated with cerebellar disorders, craniofacial malformations, epilepsy and prematurity in children.
- Review in Maintenance of Certification (MOC) and Self-Assessment Module (SAM) programming with sessions highlighting Pediatric Neuroradiology, Head and Neck Imaging, Cerebrovascular Diseases, and Spine Imaging and Intervention.
- Identify major health policy and socioeconomic factors likely to affect the future of Neuroradiology, including changes in payment systems, evolution of health care reform, comparative effectiveness research, and evidence based medicine.
- Analyze the indications for, imaging findings, and outcomes related to diagnosis and endovascular therapy of venous disease, dural arteriovenous fistulae, carotid disease and aneurysms.
- Describe imaging findings associated with sinonasal, skull base and temporal bone pathology as well as head and neck cancer.
- Identify abnormalities of and perform interventional procedures on the spine, disk, pelvis and sacroiliac joint.
- Apply conventional and advanced imaging methods to the diagnosis and treatment planning of psychiatric diseases, dementias, acute stroke and other vascular diseases, traumatic brain injury, white matter diseases, infections and intracranial neoplasms.
- Define and analyze new developments in molecular imaging, positron emission tomography imaging, functional MRI, diffusion imaging, brain perfusion imaging, and MR spectroscopy.
- Analyze new developments in computed tomography including interactive reconstruction, dual energy CT, and 4D CT.
- Evaluate leadership and management approaches to optimizing performance of radiology practice.
Invited Speakers
(as of 11/18/11)

Frederica Agosta, MD
San Raffaele Scientific Institute and Vita Salute University, Italy

Andres Arbelaez, MD
Corbí Cardiomeurovascular / Hospital Pablo Tobon Uribe, Columbia

Roland Bammer, PhD
Stanford University

Peter B. Barker, D.Phil., PhD
Johns Hopkins University School of Medicine

Frederik Barkhof, MD
Vrije Universiteit Medical Centre, Netherlands

A. James Barkovich, MD
University of California, San Francisco Medical Center

Robert M. Barr, MD
Mecklenburg Radiology Associates, PA

Walter S. Bartynski, MD
Presbyterian University Hospital

Tracy T. Batchelor, MD, MPH
Massachusetts General Hospital / Harvard Medical School

Jacqueline A. Bello, MD
Montefiore Medical Center

Alex Berenstein, MD
Roosevelt Hospital

Rafeeque A. Bhadelia, MD
Beth Israel Deaconess Medical Center

Erin D. Bigler, PhD
Brigham Young University

Larissa T. Bilaniuk, MD
Children’s Hospital of Philadelphia

Susan I. Blaser, MD, FRCP
c Hospital for Sick Children, Canada

Timothy N. Booth, MD
Children’s Medical Center of Dallas / University of Texas at Southernmost

Craig A. Branch, PhD
Albert Einstein College of Medicine

Allan L. Brook, MD
Montefiore Medical Center

R. Nick Bryan, MD, PhD
University of Pennsylvania

Health System

Soonmee Cha, MD
University of California, San Francisco Medical Center

DeWitte T. Cross III, MD
Washington University Medical Center

Mary E. Cunnane, MD
Massachusetts Eye and Ear Infirmary

Anders Dale, PhD
University of California, San Diego

Colin P. Derdeyn, MD
Mallinckrodt Institute

William D. Donovan, MD, MPH, FACR
The William W. Backus Hospital

Howard L. Dorne, MD
Vascular and Interventional Specialists of Orange County

Paul Dreyfuss, MD
University of Washington

Clifford J. Eskey, MD, PhD
Dartmouth-Hitchcock Medical Center

David J. Fiorella, MD, PhD
Stony Brook University Medical Center

Donald F. Frei, Jr., MD
Radiology Imaging Associates

Emerson L. Gasparotto, MD, PhD
University Federal of Rio De Janeiro, DASA, Brazil

Lawrence E. Ginsberg, MD
MD Anderson Cancer Center

Christine M. Glastonbury, MBBS
University of California San Francisco

R. Gilberto Gonzalez, MD, PhD
Massachusetts General Hospital

P. Ellen Grant, MD
Children’s Hospital Boston

Robert I. Grossman, MD
New York University

Medical Center

Rajiv Gupta, MD, PhD
Massachusetts General Hospital

David B. Hackney, MD, FACR
Beth Israel Deaconess Medical Center

Danial K. Hallam, MD, MSc
University of Washington, Harborview Medical Center

H. Ric Harnsberger, MD
University of Utah

Donald V. Heck, MD
Forsyth Radiology Associates

Jeroen Hendrikske, MD, PhD
University Medical Center- Utrecht, Netherlands

Alan S. Hilibrand, MD
Jefferson Medical College, The Rothman Institute

Michael S. Huckman, MD
Rush University Medical Center

Patricia A. Hughes, MD
Emory University School of Medicine

Mahesh V. Jayaraman, MD
Rhode Island Hospital / Warren Alpert School of Medicine at Brown University

Annette J. Johnson, MD, MS
Wake Forest University School of Medicine

Blake A. Johnson, MD, FACR
Center for Diagnostic Imaging

Crystal A. Jones
University of Michigan Health System

John E. Jordan, MD
Advanced Imaging of South Bay

David F. Kallmes, MD
Mayo Clinic, Rochester MN

Emanuel Kanal, MD
University of Pittsburgh Medical Center

Marc D. Keshishian, MD
Blue Care Network

Bernadette L. Koch, MD
Cincinnati Children’s Hospital

David A. Kumpe, MD
University of Colorado

John I. Lane, MD
Mayo Clinic Rochester, MN

Meng Law, MD
University of Southern California Medical Center

Frank J. Lexa, VII, MD, MBA
The Wharton School / University of Pennsylvania

Cathy Limperopoulos, PhD
Children’s National Medical Center, George Washington University School of Medicine and Health Science

Michael L. Lipton, MD, PhD
Albert Einstein College of Medicine

Andrew W. Litt, MD
Dell Healthcare and Life Sciences

Harold I. Litt, MD, PhD
Perelman School of Medicine / University of Pennsylvania

Laurie A. Loewner, MD
University of Pennsylvania Medical Center

Jeffrey Lotz, PhD
University of California, San Francisco

Hanzhang Lu, PhD
University of Texas Southwestern Medical Center

Joseph A. Maldjian, MD
Wake Forest University School of Medicine

Alex Mamourian, MD
University of Pennsylvania

Emory University School of Medicine

Children’s National Medical Center

DASA, Brazil

University Federal of Rio De Janeiro, DASA, Brazil

University of California San Francisco

Massachusetts General Hospital

Children’s Hospital Boston

ASNR 50th
Anniversary
1962-2012
ANNUAL MEETING
NEW YORK, NY
Invited Speakers (as of 11/18/11)

Michelle A. Michel, MD  
Medical College of Wisconsin / Froedtert Hospital

David J. Mikulis, MD  
Toronto Western Hospital, Canada

Andrew J. Molyneux, MD  
Neurovascular Research / Nuffield Surgery

Michael T. Modic, MD  
Cleveland Clinic Foundation

Gul Moonis, MD, BS  
Beth Israel Deaconess Medical Center

Christopher J. Moran, MD  
Washington University School of Medicine

Patrik Mukherjee, MD, PhD  
University of California, San Francisco

Suresh K. Mukherji, MD, FACC  
University of Michigan Health System

Srinivasa Mukundan, Jr., MD, PhD  
Brigham and Women’s Hospital

Cameron G. McDougall, MD, FRCS  
Barrow Neurological Institute / St. Joseph’s Hospital and Medical Center

Geraldine McGinty, MD, MBA  
NRAD Medical Associates, P.C.

Thomas P. Naidich, MD  
Mount Sinai Medical Center

Edward A. Neuwelt, MD  
Oregon Health & Science University

Darren B. Orbach, MD, PhD  
Children’s Hospital Boston

Anne G. Osborne, MD  
University of Utah Medical Center

Enrique Palacios, MD  
Tulane University

Michael J. Paldino, MD  
Children’s Hospital Boston

Jeffrey R. Petrella, MD  
Duke University Medical Center

C. Douglas Phillips, MD, FACC  
Weill Medical College of Cornell University / New York Presbyterian Hospital

Stuart R. Pomerantz, MD  
Massachusetts General Hospital

Whitney B. Pope, MD, PhD  
David Geffen School of Medicine at University of California, Los Angeles

John D. Port, MD, PhD  
Mayo Clinic, Rochester MN

M. Judith Donovan Port, MD, FACC  
University of Miami, Miller School of Medicine

James M. Provenzale, MD  
Duke Medical Center

Robert M. Quinnner, MD  
University of Miami, Miller School of Medicine

Perry F. Renshaw, MD, PhD, MBA  
University of Utah

Timothy P.L. Roberts, PhD  
Children’s Hospital of Philadelphia

Caroline D. Robson, MB, ChB  
Children’s Hospital Boston

Howard E. Rockette, PhD  
University of Pittsburgh

Gary F. Rogers, MD  
Children’s National Medical Center

Bruce R. Rosen, MD, PhD  
Boston Children’s Hospital

Jeffrey S. Ross, MD  
Barrow Neurological Institute, St. Joseph’s Hospital

Andrea Rossi, MD  
G. Gaslini Children’s Hospital, Italy

Alex Rovira, MD  
Hospital Vall D’Hebron, Spain

Zoran Rumboldt, MD, PhD  
Medical University of South Carolina

Haris Sair, MD  
Johns Hopkins Medicine

Stephen Salloway, MD, MS  
Warren Alpert Medical School of Brown University

Warren Sanders, MA  
University of Maryland School of Medicine

Pina C. Sanelli, MD, MPH  
New York Presbyterian Hospital / Cornell University

Ilona M. Schmaffuss, MD  
NF/SG Veterans Administration / University of Florida

Erin S. Schwartz, MD  
Children’s Hospital of Philadelphia

David J. Seidenwurm, MD, FACR  
Radiological Associates

Aseem Sharma, MD  
Washington University School of Medicine / Mallinckrodt Institute of Radiology

Deborah R. Shatzkes, MD  
St. Lukes-Roosevelt Hospital Center

Martha E. Shenton, PhD  
Harvard Medical School / Brigham and Women’s Hospital

D. Christian Sonne, MD  
Kaiser Permanente Oakland Medical Center

Michael G. Stewart, MD  
Weill Medical College of Cornell University

Jeffrey A. Stone, MD  
Mayo Clinic Florida

Pia C. Maly Sundgren, MD, PhD  
Lund University / Center for Medical Imaging & Physiology, Sweden

Joel D. Swartz, MD  
Germantown Imaging Associates

Stephan T. Sweriduk, MD  
Shields Healthcare Group

Prof. Dr. E. Turgut Tali  
Gazi University School of Medicine, Turkey

Majda M. Thurnher, MD  
Medical University of Vienna, Austria

Johan W. Van Goethem, MD, PhD  
University Hospital of Antwerp, Belgium

Gilbert Vezina, MD  
Children’s National Medical Center

Fernando Vinuela, MD  
University of California Los Angeles Medical Center

Katie D. Yo, MD  
Mallinckrodt Institute of Radiology and Washington University Medical Center

Ajay K. Wakhloo, MD, PhD  
University of Massachusetts

Bruce A. Wasserman, MD  
Johns Hopkins University

Alyssa T. Watanabe, MD  
Voxel Imaging, Inc. / University of Southern California School of Medicine

Patrick Y. Wen, MD  
Dana-Farber / Brigham & Women’s Cancer Center

Richard H. Wiggins, III, MD, CIIP  
University of Utah

Daniel W. Williams, III, MD  
Wake Forest University School of Medicine

Dean F. Wong, MD, PhD  
Johns Hopkins Medical Institution

Wade H.M. Wong, DO  
University of California San Diego Medical Center

David M. Yousem, MD, MBA  
Johns Hopkins Medical Institution

Gregory J. Zipfel, MD  
Washington University in St. Louis School of Medicine
Monday, April 23, 2012
(as of 11/18/11)

SCHEDULE KEY

AR: Audience Response Sessions
MOC: Maintenance of Certification
SAM: Self Assessment Module Sessions

*NOTE: Programming is currently under review for approval for Self Assessment Modules (SAM) credit through the American Board of Radiology (ABR). Information and updates to be provided at www.asnr.org/2012.

All Sessions
AI = Advanced Imaging
ASFNR = American Society of Functional Neuroradiology
ASHNR = American Society of Head and Neck Radiology
ASPNR = American Society of Pediatric Neuroradiology
ASSR = American Society of Spine Radiology
SNIS = Society of NeuroInterventional Surgery
SNO = Society of Neuro Oncology
SJ = Synaptic Junction Programming

How-To Session 6:20a - 7:20a
Opening Remarks 7:25a - 7:30a
Breakfast 6:20a - 7:55a

Maintenance of Certification (MOC): Review Session (AR) Pediatrics 7:30a - 8:30a
Gilbert Vezina, MD; Timothy N. Booth, MD

ASPNR Programming: Fetal and Neonatal Imaging 8:30a-10:00a
8:30a - 8:55a Advanced Fetal and Neonatal Imaging Techniques P. Ellen Grant, MD, FRCPC
8:55a - 9:20a New Insights into Neurocognitive Deficits of Prematurity A. James Barlowich, MD
9:20a - 9:45a Fetal and Neonatal Cerebellar Abnormalities Catherine Limperopoulos, PhD
9:45a - 10:00a Discussion

Collaboration with Society of Neuro Oncology (SNO): Assessment of Tumor Recurrence in the Modern Era 8:30a-10:00a
8:30a - 8:50a Advanced Neuroimaging of Response and of Progression Following Anti-Angiogenic Therapy Pia C. Maly Sundgren, MD, PhD
8:50a - 9:10a Decision Making Following Anti-Angiogenic Therapy: The Neuro-Oncologist’s Perspective Tracy T. Batchelor, MD, MPH
9:10a - 9:30a Advanced Imaging and Non-FDG PET for Differentiating True From Pseudo-Progression Whitney B. Pope, MD, PhD
9:30a - 9:50p Review of RANO Patrick Y. Wen, MD
9:50a - 10:00a Discussion

ASPNR Programming: Advanced Pediatric Neuroimaging Techniques 1:00p - 2:30p
1:00p - 1:25p Novel MR Techniques (DWI/DTI/fast SWI, etc) Roland Banmer, PhD
1:25p - 1:50p Advanced MR Imaging in Patients with Focal Epilepsy: Focus Detection and Abnormal Connectivity Michael J. Paldino, MD
1:50p - 2:15p Imaging Epileptic Discharges with Encephalographic MR Darren B. Orbach, MD, PhD
2:15p - 2:30p Questions and Answers

Parallel Scientific Paper Sessions 3:00p - 4:30p

ASPNR Programming: Pediatric Head and Neck (SAM #2) 4:45p - 6:15p
4:45p - 5:10p Craniofacial Malformations: Radiological Perspective Susan L. Blair, MD, FRCPC
5:10p - 5:35p Craniofacial Malformations: Clinical Perspective Gary F. Rogers, MD
5:35p - 6:00p Syndromic Hearing Loss Caroline D. Robson, MB,ChB
6:00p - 6:15p Discussion

ASPFN Programming: Advanced Imaging in Psychiatric Disease: Opportunities and Trends 4:45p - 6:15p
4:45p - 5:10p Advanced Imaging of Affective Disorders and Schizophrenia Perry F. Bendian, MD, PhD, MBA
5:10p - 5:35p Advanced Imaging for the Evaluation of Schizophrenia and Related Illnesses Martha E. Shenton, PhD
5:35p - 6:00p MR Techniques for Imaging in Psychiatric Disease: Current Status and Future Directions John D. Port, MD, PhD
6:00p - 6:15p Panel Discussion

Synaptic Junction Programming: MR Safety for Patients with Implants 8:30a-10:00a
Emanuel Kanal, MD
Alex Marmourian, MD
Hawold I. List, MD, PhD

General Programming: CNS Infections 1:00p - 2:30p
1:00p - 1:20p Tropical Infection Update M. Judith Dunowen Post, MD, FACR
1:20p - 1:40p CNS Lesions in AIDS: The HAART Era (to Include IRIS) Emerson L. Guaparetto, MD, PhD
1:40p - 2:00p Viruses: Difficulties in Diagnosing Viruses By Imaging Zaven Rouboud, MD, PhD
2:00p - 2:20p Spinal Infections: An Update Prof. Dr. E Turgut Tali
2:20p - 2:30p Questions and Answers

Socioeconomics Programming: Health Care/ Payment Methodology/ Health Services 1:00p - 2:30p
1:00p - 1:25p Thryoid and Parathyroid Imaging Laurie A. L.Verner, MD
1:25p - 1:50p Evaluation of Suspected Dural Sinus Thrombosis: Principles and Pitfalls James M. Provenzale, MD
1:50p - 2:15p CSF Flow Imaging Rafique A. Bhadelia, MD
2:15p - 2:30p Discussion

Advanced Imaging Seminar: Molecular Neuroradiology 4:45p - 6:15p
Presenters: TBD

ASNR 50th Anniversary Reception - Off Site Location - The Museum of Modern Art (MoMA) 7:00p - 10:00p

Lunch On Own 12:00p - 1:00p
Parallel Scientific Paper Sessions 10:30a-12:00p

Breakfast 7:30a - 8:30a
Morning Beverage Break 10:00a - 10:30a

Education Exhibits Tour 12:00p - 1:00p
Afternoon Beverage Break 2:30p - 3:00p

Parallel Scientific Paper Sessions 1:00p - 2:30p

Lecture 2:30p - 3:00p
Implementation of Imaging Techniques in the Clinical Setting
4:45p - 5:10p
5:10p - 5:35p
5:35p - 6:00p
6:00p - 6:15p
Tuesday, April 24, 2012
(as of 11/18/11)

SCHEDULE KEY

All Sessions
AI = Advanced Imaging
ASFN = American Society of Functional Neuroradiology
ASHNR = American Society of Head and Neck Radiology
ASPNR = American Society of Pediatric Neuroradiology
ASSR = American Society of Spine Radiology
SNIS = Society of NeuroInterventional Surgery
SILAN = Ibero-Latin American Society of Neuroradiology
SJ = Synaptic Junction Programming
AR = Audience Response Sessions
MOG = Maintenance of Certification
SAM = Self Assessment Module Sessions
*NOTE: Programming is currently under review for approval for Self Assessment Modules (SAM) credit through the American Board of Radiology (ABR). Information and updates to be provided at www.asnr.org/2012.

Maintenance of Certification (MOC) Review Session (AR) Head and Neck
7:30a - 8:30a  Gal Moore, MD, BS, Mary E. Cunnane, MD

How-To Session 6:20a - 7:20a

Breakfast 6:20a - 7:55a

General Programming: Collaboration with Society of SILAN
8:30a - 10:00a Session in honor of Dr. Juan Taveras
8:30a - 8:40a Short Presentation about Dr. Juan Taveras
R. Gilmore Gonzalez, MD, PhD
8:40a - 9:00a Arteriovenous Malformations Fernando Vinuela, MD
9:00a - 9:20a Neurocysticercosis and Other Tropical Infectious Diseases Enrique Palacios, MD, FACR
9:20a - 9:40a Multiple Sclerosis Alex Reive, MD
9:40a - 10:00a Temporal Lobe Epilepsy Andres Arbelatez, MD

General Programming: Alzheimer’s Dementia
8:30a - 10:00a
8:30a - 8:50a Preclinical Alzheimer’s Dementia: A New Frontier in Treatment Trials Stephen Salloway, MD, MS
8:50a - 9:10a Amyloid Imaging of Alzheimer’s Dementia and Beyond Chester A. Mathis, PhD
9:10a - 9:30a Quantitative Volumetric Imaging in AD Diagnosis and Treatment Trials Anders Dale, PhD
9:30a - 9:50a Bridging the Gap: What Can Functional Neuroimaging Tell Us about the Pathophysiology in Alzheimer’s Disease Jeffrey B. Petrella, MD
9:50a - 10:00a Panel Discussion

Synaptic Junction Programming: DTI for Dummies
8:30a - 10:00a
Andrew G. Blecker, MD
Vikas Agarwal, MD
Andrew J. Molyneux, MD

Young Professional Programming: Entering and Thriving in Community Practice
8:30a - 10:00a
Welcome to the Real World John E. Jordan, MD
Understanding the Food Chain Robert M. Barr, MD
The Corporate Environment Christian Sonne, MD
Making the Transition David J. Seidenwurm, MD, FACR
Questions and Answers

ASHNR Programming: Skull Base
1:00p - 2:30p
1:00p - 1:25p Skull Base Anatomy/Diagnostic Lesions
C. Douglas Phillips, MD, FACR
1:25p - 1:50p Intrinsic Skull Base Pathology
Richard H. Wiggins, III, MD, CIIP
1:50p - 2:15p Nasopharyngeal Neoplasms
Christine M. Glastonbury, MBBS
2:10p - 2:30p Resting State fMRI for Mapping Brain Networks Harris Sait, MD

General Programming: Alzheimer’s Dementia
8:30a - 10:00a
8:30a - 8:50a Preclinical Alzheimer’s Dementia: A New Frontier in Treatment Trials Stephen Salloway, MD, MS
8:50a - 9:10a Amyloid Imaging of Alzheimer’s Dementia and Beyond Chester A. Mathis, PhD
9:10a - 9:30a Quantitative Volumetric Imaging in AD Diagnosis and Treatment Trials Anders Dale, PhD
9:30a - 9:50a Bridging the Gap: What Can Functional Neuroimaging Tell Us about the Pathophysiology in Alzheimer’s Disease Jeffrey B. Petrella, MD
9:50a - 10:00a Panel Discussion

ASHNR Programming: Sinus/Orbit
4:45p - 6:35p
4:45p - 5:10p Orbit Tumors and Vascular Lesions
Deborah R. Shatzkes, MD
5:10p - 5:35p Sinonasal Anatomy
Michelle A. Michel, MD
5:35p - 6:00p Sinonasal and Orbital Infections
Daniel W. Williams, III, MD
6:00p - 6:15p Discussion

General Programming: Aneurysms
4:45p - 6:15p
4:45p - 5:05p Aneurysm Biology and Implications for Treatment Ajay K. Wakhloo, MD, PhD
5:05p - 5:25p Flow Diversion David J. Fiorella, MD, PhD
5:25p - 5:45p Biologically Active Coils Cameron G. McDougall, MD
5:45p - 6:05p Aneurysm Clinical Trials and Tribulations
Andrew J. Molyneux, MD
6:05p - 6:15p Questions

What is Quality? Perspectives from Patient, The Payers and Least Importantly Us? (SAM #3)
4:45p - 6:15p
4:45p - 4:57p Academic Neuroradiology
Suresh K. Mukherji, MD, FACR
4:57p - 5:09p Private Practice Neuroradiology
Sean Mogher, MD
5:09p - 5:21p Government
David J. Seidenwurm, MD, FACR
Andrew J. Molyneux, MD
5:33p - 5:45p Patients: Crystal A. Jones
5:45p - 6:15p Discussion

General Programming: Sinus/Orbit
4:45p - 6:35p
4:45p - 5:10p Orbit Tumors and Vascular Lesions
Deborah R. Shatzkes, MD
5:10p - 5:35p Sinonasal Anatomy
Michelle A. Michel, MD
5:35p - 6:00p Sinonasal and Orbital Infections
Daniel W. Williams, III, MD
6:00p - 6:15p Discussion

General Programming: Advanced CT Imaging
8:30a - 10:00a
8:30a - 9:00a Dual Energy CT Rajeev Gupta, MD, PhD
9:00a - 9:30a Interactive Reconstruction Stuart R. Pomerantz, MD, PhD
9:30a - 10:00a Wide Coverage CT Srinivasa Mukundan, Jr., MD, PhD

General Programming: Intracranial Vessel Wall Imaging
1:00p - 2:30p
1:00p - 1:15p Getting Your First Job Carolyn C. Meltzer, MD, FACR
1:15p - 1:30p Building a Research Program Sommeier Cho, MD
1:30p - 1:45p The Different Components of Academic Radiology
Suresh K. Mukherji, MD, FACR
1:45p - 2:00p Getting Promoted: The Different Promotion Tracts
David M. Yousem, MD, MBA
2:00p - 2:30p Discussion

Lunch On Own 12:00p - 1:00p
Parallel Scientific Paper Sessions 10:30a - 12:00p

ASPNR Programming: 2012 ASPNR Interesting Case Session
1:00p - 2:30p
A. James Barkovich, MD - Brain
Andrea Ross, MD - Spine
Larissa T. Bilaniuk, MD - Head and Neck

Presenters: TBD

Grant Writing Seminar 3:00p - 4:30p
3:00p - 3:20p Early Career Awards Timothy P.L. Roberts, PhD
3:20p - 3:40p How to Prepare Your First Grant Submission Wendy Sanders, MA
3:40p - 4:00p How to Avoid Common Pitfalls in Grant Submission Peter B. Barker, D.Phil, PhD
4:00p - 4:30p Panel Discussion

Parallel Scientific Paper Sessions 3:00p - 4:30p

Advanced Imaging Seminar: Neurotransmitter and Imaging
4:45p - 6:15p
Presenters: TBD

SAPS
### Wednesday, April 25, 2012 (as of 11/18/11)

**SCHEDULE KEY**

**AR:** Audience Response Sessions  
**MOC:** Maintenance of Certification  
**SAM:** Self Assessment Module Sessions

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#### All Sessions

- **AI = Advanced Imaging**
- **ASNR = American Society of Neuroradiology**
- **ASHNR = American Society of Head and Neck Radiology**
- **ASPNR = American Society of Pediatric Neuroradiology**
- **ASSR = American Society of Spine Radiology**
- **SNIS = Society of NeuroInterventional Surgery**
- **SJ = Synaptic Junction Programming**

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<table>
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<tr>
<th>Time</th>
<th>Session</th>
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| 8:30a - 10:00a | **Founding the American Society of Neuroradiology**  
Michael S. Hawkes, MD, FACR |
| 8:40a - 8:55a | **Major Milestones in the History of the ASNR**  
Ann G. Okhors, MD |
| 8:55a - 9:10a | **We’ve Come A Long Way: Key Technologic Advances in the Last 50 Years, Creating Images Then and Now**  
R. Nick Bryan, MD, PhD |
| 9:10a - 9:25a | **Neurointerventional Radiology: 50 Years Ago and 50 Years from Now**  
Alex Berenstein, MD |
| 9:25a - 9:40a | **Where Neuroradiology Stands Today**  
Patricia A. Hudgins, MD |
| 9:40a - 10:00a | **Epidemiology of Low Back Pain and Sciatica: Imaging and Interventions**  
Bruce R. Rosen, MD, PhD |
| 10:00a - 11:00a | **Epidemiology Basics for Spine**  
Michael V. Jayaraman, MD, Clifford J. Eley, MD, PhD |
| 11:00a - 11:15a | **ASNR Presidential Address**  
David B. Hackney, MD, FACR |
| 11:20a - 11:30a | **ASNR Award Announcements** |
| 11:30a - 12:00p | **ASNR Annual Business Meeting (for members only)** |
| 12:00p - 1:00p | **Lunch On Own** |
| 1:00p - 1:15p | **AAHN Programming: Head and Neck Cancer (SAM #4)**  
Suresh K. Mukherji, MD, FACR |
| 1:15p - 1:30p | **SNIS Programming: Venous Disease**  
Lawrence E. Ginsberg, MD |
| 1:30p - 1:45p | **ASSR Programming: Advanced Imaging of the Spine and Disk**  
DeWitte T. Cross, III., MD |
| 1:45p - 2:00p | **Socioeconomics Programming: The Nuts & Bolts of Health Care Payment and Reform: What You Need to Know!**  
Cornelius G. Dyke, MD |
| 2:00p - 2:15p | **ASSR Programming: Epidemiology Basics for Spine Imaging and Interventions**  
Donald F. Frei, Jr., MD |
| 2:15p - 2:30p | **Synaptic Junction Programming: Faster and Better**  
Ilona M. Schmalfuss, MD |
| 2:30p - 3:00p | **Afternoon Beverage Break** |
| 3:00p - 3:15p | **Parallel Scientific Paper Sessions** |
| 3:15p - 3:30p | **Society of NeuroInterventional Surgery**  
Thomas P. Kistler, MD |
| 3:30p - 3:45p | **American Society of Functional Neuroimaging**  
Anne G. Osborn, MD |
| 3:45p - 4:00p | **American Society of Functional Neuroimaging**  
Michael S. Huckman, MD |
| 4:00p - 4:15p | **American Society of Functional Neuroimaging**  
R. Nick Bryan, MD, PhD |
| 4:15p - 4:30p | **American Society of Functional Neuroradiology**  
Bruce R. Rosen, MD, PhD |
| 4:30p - 4:45p | **American Society of Functional Neuroradiology**  
Michael S. Huckman, MD |
| 4:45p - 5:00p | **American Society of Functional Neuroradiology**  
Anne G. Osborn, MD |
| 5:00p - 5:15p | **American Society of Functional Neuroradiology**  
Michael S. Huckman, MD |
| 5:15p - 5:30p | **American Society of Functional Neuroradiology**  
R. Nick Bryan, MD, PhD |
| 5:30p - 5:45p | **American Society of Functional Neuroradiology**  
Bruce R. Rosen, MD, PhD |
| 5:45p - 6:00p | **American Society of Functional Neuroradiology**  
Michael S. Huckman, MD |
| 6:00p - 6:15p | **American Society of Functional Neuroradiology**  
Anne G. Osborn, MD |
| 6:15p - 6:30p | **American Society of Functional Neuroradiology**  
Michael S. Huckman, MD |
| 6:30p - 7:00p | **Closing Reception with Technical Exhibitors** |

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Morning Beverage Break 10:00a - 10:30a

ASSR Programming: The Sacroiliac Joint and Pelvis: Imaging and Interventions (SAM #5)
8:30a - 10:00a
8:30a - 8:50a Anatomy and Imaging of the SIJ and Pelvis for the Spine Interventionalist Alyssa T. Watanabe, MD
8:50a - 9:10a Innervation of the Sacroiliac Joint: Implications for Diagnostic Testing and Selection for RF Ablation Paul Dreyfuss, MD
9:10a - 9:30a Diagnostic and Therapeutic Injections of the Sacroiliac Joint and Pelvis Jeffrey A. Stone, MD
9:30a - 9:50a RF Ablation of the SIJ: Review of Technique Options and Treatment Success Wade H.M. Wong, DO
9:50a - 10:00a Discussion

Collaboration with European Society of Neuroradiology (ESNR) White Matter Diseasen
8:30a - 10:00a
8:30a - 8:50a State of the Art MR Imaging of Multiple Sclerosis and Other Demyelinating Disease Frederik Barkhof, MD
8:50a - 9:10a Pediatric Multiple Sclerosis, ADEM and Other Demyelinating Diseases: Where Do We Stand? Andrea Rossi, MD
9:10a - 9:30a Demyelinating Diseases of the Spinal Cord Majda M. Thurnher, MD
9:30a - 9:50a White Matter Damage in Neurodegenerative Diseases Assessed Using Advance MRI Techniques Federica Agosta, MD
9:50a - 10:00a Discussion

Socioeconomic Programming: Current Issues in Stroke Imaging and Treatment: What is the Evidence?
8:30a - 10:00a 2012 J. Arliss Pollock, MD Memorial Lecture:
8:30a - 8:50a How Much Evidence is Truly Available? Pina C. Sanelli, MD, MPH
8:50a - 9:15a Neuroimaging In Acute Ischemic Stroke Katie D. Vo, MD
9:15a - 9:45a Endovascular Treatment of the Stroke Patient Daniel K. Hallam, MD, MSc
9:45a - 10:00a Panel Discussion

Parallel Scientific Paper Sessions 10:30a - 12:00p

Lunch On Own 12:00p - 1:00p

Parallel Scientific Paper Sessions 1:00p - 2:30p

Afternoon Beverage Break 2:30p - 3:00p

ASSR Programming: Spine Potpourri
3:00p - 4:30p
3:00p - 3:20p Making Imaging Interpretation Clinically Relevant to the Spine Surgeon Robert M. Quencer, MD
3:20p - 3:40p Spinal Alignment: Why Pelvic Incidence, Cobb Angles and Kyphosis are Important in Spinal Balance, Scoliosis and Spondylolisthesis Johan W. Von Goethem, MD, PhD
3:40p - 4:00p Hot Topics in Vertebral Augmentation Allan L. Brook, MD
4:00p - 4:20p Translating Advanced Imaging Approaches to Patient Care: Promise and Pitfalls Michael L. Lipton, MD, PhD
4:20p - 4:30p Discussion

SNIS Programming: Carotid Disease (SAM #6)
3:00p - 4:30p
3:00p - 3:20p Diagnosis Colin P. Derdeyn, MD
3:20p - 3:40p Treatment Donald V. Heck, MD
3:40p - 4:00p CEA versus CAS Trials Christopher J. Moran, MD
4:00p - 4:30p Questions and Answers

General Programming: Mild Traumatic Brain Injury
3:00p - 4:30p
3:00p - 3:20p MILD TBI: What is It? What Can Be Done? What Can Imaging Bring to the Table? Erin D. Bigler, PhD
3:20p - 3:40p Animal Models Reveal the Pathologic Basis for Clinical Imaging Findings Craig A. Branch, PhD
3:40p - 4:00p White Matter Injury in midst: Why it Matters Most and How Imaging Can Improve Detection Pratik Mukherjee, MD, PhD
4:00p - 4:20p Translating Advanced Imaging Approaches to Patient Care: Promise and Pitfalls Michael L. Lipton, MD, PhD
4:20p - 4:30p Discussion

Closing Remarks 4:30p - 4:45p
Education Exhibition
The ASNR 50th Annual Meeting Education Exhibition in the Education Exhibits Hall of the Hilton New York Hotel, from Monday, April 23 - Thursday, April 26, 2012. The following will be available for viewing by attendees:
• Electronic Education Exhibits (eEdE)
• Scientific Posters (Electronic or Print)
• Education Exhibits (Print)

2012 Education Exhibits Tour
Rhinelander Gallery
Monday, April 23 .............. 12:00pm – 1:00pm
Wednesday, April 25 ........ 12:00pm – 1:00pm
NEW! You will receive CME credits for participating in the Education Exhibits Tour a Review of Education Exhibits, visual presentations/educational displays designed to further the understanding of Neuroradiology by featuring cutting edge material or by offering an instructional review of a particular topic.
The session will allow for review of visually-oriented educational displays that demonstrate novel and innovative applications for computers in Neuroradiology clinical practice, training and research. Share this educational opportunity with your colleagues and primary exhibit presenters and exchange in a lively Questions and Answer session.

Technical Exhibition
The ASNR 50th Annual Meeting Technical Exhibition will be held at the Hilton New York Hotel in the Americas Hall I from Tuesday, April 24 through Thursday, April 26, 2012. Companies will be presenting a wide-range of neuroradiological and interventional products and related services. Registrants are urged to take advantage of this valuable portion of the Annual Meeting.

How-To Sessions
The leadership of the ASNR is pleased to present more instructional How-To Sessions. These one-hour sessions, presented by major corporate contributors, deal with advances in imaging and procedures, as well as principles in Neuroradiology and image information management. The How-To Sessions are scheduled during breakfast throughout the week.
The How-To Sessions offer a unique opportunity for neuroradiologists to discuss techniques, procedures and products with their colleagues as well as with technical specialists from the imaging industry.
The sessions may include a brief didactic presentation and demonstration, all with a strong practical emphasis. A significant portion of each session is devoted to questions and answers. As problems and solutions relating to the imaging techniques will be addressed with previous years sessions addressing clinical CT Imaging, Practical Neuro CTA and advances in MR Imaging.
Please note: Due to the direct financial support from companies to conduct these sessions, CME credit hours will not be granted for any How-To Sessions.
Young Professionals Programming
(Fellows, Residents, Medical Students and Neuroradiologists in their first three years in practice)

Young Professionals Programming Sessions
Tuesday, April 24, 2012
8:30am-10:00am
Entering and Thriving in Community Practice
Welcome to the Real World
John E. Jordan, MD
Understanding the Food Chain
Robert M. Barr, MD
The Corporate Environment
Stephen T. Sweriduk, MD
The HMO Environment
D. Christian Sonne, MD
Making the Transition
David J. Seidenwurm, MD, FACR

1:00pm-2:30pm
Academic Session
Getting Your First Job
Carolyn C. Meltzer, MD, FACR
Building a Research Program
Soonmee Cha, MD
The Different Component of Academic Radiology
Suresh K. Mukherji, MD, FACR
Getting Promoted: The Different Promotion Tracks
David M. Yousem, MD, MBA

North American Neuroradiology Fellows and Radiology Residents... become an ASNR Member-In-Training today and then register for the meeting at the REDUCED ASNR Member-In-Training Fee.

1. Download a Member-In-Training application at www.asnr.org
2. Select ‘JOIN ASNR’, print, complete and return the application by fax, email or mail back to ASNR Headquarters Office.
   *Please make sure your handwriting is legible
   Email: membership@asnr.org
   Fax: 630-574-0661
   Mail: American Society of Neuroradiology
   2210 Midwest Road, Suite 207
   Oak Brook, IL 60523-8205
   Attention: Membership
3. You will be notified via email by the ASNR Membership Department regarding your membership status
4. Upon receiving email confirmation that you are a ASNR Member-In-Training you may register for the Annual Meeting at the reduced registration fee.
   Win/Win Offer that you cannot resist!!!
   Membership dues are waived for ASNR Members-In-Training who are currently in a ACGME (U.S.) or RCPSC (Canadian) Neuroradiology fellowship or Radiology residency training program.
Synaptic Junction Programming

The ASNR Synaptic Junction provides the opportunity for connecting your practice to the future through offerings focused on enhancing workflow, efficiency, standardization of interpretation and reporting, and improvements in revenue cycle, particularly those that involve software, hardware and informatics-based solutions.

Synaptic Junction Programming Lectures

Synaptic Junction provides the opportunity for connecting your practice to the future through offerings focused on enhancing workflow, efficiency, standardization of interpretation and reporting, and improvements in revenue cycle, particularly those that involve software, hardware and informatics-based solutions.

Lectures Include:

**MRI Safety for Patients with Implants**
Radiologists have traditionally excluded from MRI patients with pacemakers, retained leads, vagal stimulators, and other implants. However, new safety standards are relaxing the criteria for safe scanning, and many patients who would have traditionally been excluded may now be safely imaged. This session will review current safety standards and encourage neuroradiologists to image patients with metallic implants.

**Point/Counterpoint: Communicating Results Directly to Patients**
Mammographers have long accepted their role in communicating test results directly to patients, in addition to the clinicians caring for those patients. Is it time for neuroradiology to adopt similar procedures for direct communication of results to patients? This session is formatted as a debate to elicit positive and negative aspects of direct-to-patient radiologist communication.

**DTI for Dummies**
Diffusion Tractography explained from the bottom up. Hardware and software requirements; imaging protocols; automated and manual aspects of post-processing; image storage; clinical applications; and basics of interpretation.

**Dose Extraction**
Radiation Dose has always been a focus of discussion for radiologists, but in recent years, it has become a major focus for administrators, politicians, journalists, and compliance committees. This session will discuss the options that are available for extracting dose information from CT scanners, for tabulating results, for comparing to other institutions, and for summarizing radiation dose statistics.
ASNR 50th Anniversary Reception & Closing Reception

ASNR 50th Anniversary Reception

Monday, April 23, 2012
Off-site Location: The Museum of Modern Art, NY
7:00pm-10:00pm

Join us at The Museum of Modern Art to celebrate ASNR’s 50th Anniversary. MoMA is often identified as the most influential museum of modern art in the world. Art enthusiasts and novices alike are often awestruck by the masterpieces before them, including Monet’s Water Lilies, Picasso’s Les Demoiselles d’Avignon and van Gogh’s Starry Night. The museum’s collection offers an unparalleled overview of modern and contemporary art, including works of architecture and design, drawings, painting, sculpture, photography, prints, illustrated books and artist’s books, film and electronic media.

In addition to the artwork, one of the main draws of MoMA is the building itself. The main entrance is a 110 foot atrium and inside a maze of glass walkways permits art viewing from many angles. Also of interest is the Abby Aldrich Rockefeller Sculpture Garden. A glass wall lets visitors look directly into the surrounding galleries from the garden, where there’s also a reflecting pool and trees.

You don’t want to miss this special experience. We look forward to welcoming you to The Museum of Modern Art.

• Includes access to the gallery, sculpture garden, dinner buffet and three (3) hour open bar
• FREE for those who register for the meeting.
• Guest Ticket is $75.00 USD

Annual Meeting Closing Reception with Technical Exhibitors

Wednesday, April 25, 2012
Hilton New York Hotel in Americas Hall I
6:30pm-7:30pm

We look forward to closing the social events with a pre-dinner reception of New York’s culinary favorites. The reception, located in Americas Hall I offers attendees the perfect opportunity to see this year’s Technical Exhibition, the ASNR’s annual showcase for the newest products and services for the field of Neuroradiology. Enjoy complimentary pre-dinner hors d’oeuvres and beverages while you interact with ASNR exhibitor representatives. The ASNR Technical Exhibition is the place where advanced technology, diagnostic and interventional Neuroradiological excellence come together.

• Includes pre dinner buffet and one (1) hour open bar
• FREE for those who register for the meeting.
• Guest Ticket is $40.00 USD
Meeting Registration Policy

Badges
- Name badges will be picked up onsite.
- Requests for a new badge are subject to a $15 replacement fee

Changes
All Registration changes and cancellations must be made in writing by Friday, March 23, 2012. There is an administration fee of $25 USD for change.
- Fax all requests for changes to (630) 574-1740
- Email all requests for changes to mryan@asnr.org
- Send all requests for changes to:
  ASNR 50th Annual Meeting
  2210 Midwest Road, Suite 207
  Oak Brook, Illinois 60523-8205 U.S.A.

Cancellations
- Cancellations made prior to Friday, March 23, 2012 will result in a $100 USD cancellation fee
- Cancellations made after Friday, March 23, 2012 will NOT BE REFUNDED.
- Cancellations will not be accepted by phone!

Refunds
- Refunds will be issued 6-8 weeks after the close of the meeting
- Refunds will not be issued for no-shows

3 Easy Ways To Register

1. Online* at:
   www.asnr.org/2012
   *Credit card payments only

2. Mail:
   ASNR 50th Annual Meeting
   2210 Midwest Road, Suite 207
   Oak Brook, Illinois 60523-8205 U.S.A.

3. Fax:
   (630) 574-1740
   Fax completed form to Attention: Meeting Registration

$100 Increase of Registration Fee after 5:00pm CST Friday, March 23, 2012
Discover an extraordinary Hilton New York hotel and see New York from a fresh perspective. Hilton New York offers modern hotel accommodations and just steps from top city attractions. Find a quiet respite from the city that never sleeps in the hotel rooms that are spacious and modern. Step outside this exquisite Midtown New York hotel and find yourself within blocks of Central Park, Times Square, Theater District, 5th Avenue shopping, The Museum of Modern Art (MoMA) and so much more.

**Restaurants**

Enjoy the breakfast buffet at the MarketPlace Café, the buffet features more than 30 favorites, including made-to-order omelets. Also, grab a delicious cup of coffee from Starbucks that is located in the main lobby and the MarketPlace Café. At lunch grab a quick bite at either the MarketPlace Café, offering a diverse selection of New York favorites from homemade pastas to brick oven cooked pizzas or the Lobby Lounge where you can enjoy a light lunch. For Dinner make sure to visit Etrusca for authentic Mediterranean cuisine. Enjoy hand-made pastas and risottos, succulent meats, fresh seafood and the freshest local produce.

**Guest Accommodations**

Indulge in first-class amenities and a spacious layout in our distinctive guest rooms. Choose from several different room type of restful hotel rooms. Enjoy added features such as a in-room thermostat control, 27 inch television, on-demand entertainment including video games, refreshment center, large work space, coffeemaker and two telephones with voicemail and data port. Enjoy a restful night's sleep on the Serenity Beds with the Suite Dreams mattress and box spring and Super Tophper mattress pad, down-filled comforters and Touch of Down pillows. Each room includes Hilton alarm clock radio complete with MP3 connections.

**King Bed or Double Beds**

King Bed and two double bedded guest rooms are beautifully decorated with solid maple woods and leather accents, with all the necessities for an unforgettable stay. Each guest room offers a comfortable chair with ottoman, large work desk, two-line telephones with voicemail, in-room safe, coffeemaker, mini-bar, iron, ironing board and ion hair dryer.

**Advance Housing Deposit**

Why is it Required?

The ASNR has incurred attrition charges for rooms in our hotel block where reservations were cancelled or “no-shows” at the last minute at several of our recent annual meetings. This is a substantial expense that is passed on to those who do attend the Meeting in the form of higher registration fees. When these reservations are not fulfilled, the ASNR is charged the room rate plus tax for every room below our contracted numbers. As a part of ASNR plan for eliminating attrition, the Advance Housing Deposit policy was implemented in 2002 along with other measures to control Meeting costs. This plan has been successful, and the amount of last-minute cancellations and no-shows has decreased significantly in recent years. As a result, the contribution of attrition fees to the registration fee charged to participants also has decreased. If you should have any questions concerning these policies in effect for the ASNR 50th Annual Meeting, please contact:

Lora Tannehill, CMP
ASNR Director of Scientific Meetings
630-574-0220 ext. 229
ltannehill@asnr.org

If you have any questions, please contact Mollie Ryan at the ASNR Headquarters Office,(630) 574-0220 ext. 231 or via email at mryan@asnr.org
Changes & Cancellations:

• Attendee hotel reservations for the 50th Annual Meeting must be made by booking online at www.asnr.org/2012 or by fax at (630) 574-1740.
• The ASNR requires prepayment of an advance housing reservation deposit.
• The advance housing reservation deposit is payable by credit card.
• The advance deposit will be charged at time of reservation by ASNR and will appear on your credit card statement (Statement will read ASNR/AJNR).
• A credit card is required to complete the process, but the hotel will not charge your credit card prior to arrival.
• The deposit will appear as a credit on your room account upon arrival.

Reminders:

CANCELLATIONS made in writing
BEFORE Friday, March 9, 2012 will result in a FULL REFUND

CANCELLATIONS made AFTER 5:00pm CST on Friday, March 9, 2012 NO REFUNDS will be given

CHANGE in Housing Reservation
AFTER Friday, March 30, 2012 can be made with Hilton New York Hotel directly

Booking Your Housing Reservation ONLINE:

1. Before you can make a hotel reservation you must register for the ASNR Annual Meeting
2. Provide ASNR with the advance housing deposit of $370.00 USD for the Hilton New York
3. At that time you will also provide your arrival and departure dates along with any special room requests
4. Once you've paid the advance housing deposit and confirmed your housing details you will receive an email from the ASNR confirming your hotel reservation
5. Hilton New York will send your hotel room confirmation the beginning of April 2012
6. The deposit will appear as a credit on your room account folio upon arrival check-in

Refunds:

• All ASNR reduction and cancellation penalties apply upon payment of the advance housing deposit
• Refunds will be issued 6 – 8 weeks after the close of the meeting
• Refunds will not be issued for no-shows

3 Easy Ways To Register and Reserve a Hotel Room

1. Online
   www.asnr.org/2012
2. Fax
   630-574-1740
   Attention: Meetings Department
3. Mail
   ASNR
   2210 Midwest Road, Suite 207
   Oak Brook, IL 60523-8205
   U.S.A.

Questions?
mryan@asnr.org

Enclose money order for the Advance Housing Deposit or guarantee to a major credit card.

HOUSING RESERVATION DEADLINE:
FRIDAY, MARCH 9, 2012
### Meeting Registration Form: Part I

Please make sure that your handwriting is legible. If not, please type or complete the form online.

| First Name: ______________________________ | Initial: ___________________________ |
| Last/Family Name: ____________________________________________ |
| Degree: _______________________ Badge (First Name/Nickname): __________________ |
| Institution: ______________________________ | Department: _____________________ |
| Preferred Mailing Address:  🚶 Work  🏡 Home |
| Street Address: ___________________________________________________________ |
| City: ____________________________________ | State/Province: ____________________ |
| Zip (Postal) Code: _________________________ | Country: ________________________ |
| Office Phone: _____________________________ | Home Phone: ____________________ |
| Cell Phone: ______________________________ | Fax: ____________________________ |
| E-mail: ___________________________________________________________________ |
| Emergency Contact: |
| Name: __________________________________ | Relationship: ____________________ |
| Telephone ______________________________ |

### Special Needs:

Please check here if you have any special needs or requirements and an ASNR representative will contact you.

- ☐ Vegetarian meal  ☐ Wheelchair/Mobility Access 🚊
- ☐ Lactose free meal  ☐ Vision/Hearing  ☐ Kosher meal
- ☐ Other special needs ______________________________________________________________

### Cancellation Policy/Registration Changes:

All registration changes and cancellations must be made in writing.

- Cancellations made prior to Friday, March 23, 2012 will result in a $100 USD cancellation fee
- Cancellations made after Friday, March 23, 2012 will result in NO REFUND
- Any registration changes will result in a $25 administration fee
- Cancellations changes will not be accepted by phone!

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### Registration Fee increase of $100 AFTER Friday, March 23, 2012

- Phone Inquiries:
  - Canada & International: +1 (630) 574-1376
  - U.S.A. (Toll-Free): 1 (888) 734-7300
- Email Inquiries: mryan@asnr.org

### 3 Easy Ways To Register

1. **Online** at www.asnr.org/2012
   - *Credit card payments only*
2. **Mail:**
   - ASNR 50th Annual Meeting
   - 2210 Midwest Road, Suite 207
   - Oak Brook, Illinois 60523-8205 U.S.A.
3. **Fax:** (630) 574-1740
   - Fax completed form to ATTN: Meeting Registration

PLEASE NOTE: Payment must be made in U.S. funds, drawn on a U.S. bank only and made payable to ASNR.

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### Are you planning on attending any of the following: (FREE of charge)

**50th Anniversary Reception**
- **Monday, April 23, 2012** • Off-site location: The Museum of Modern Art (MoMA)
  - 7:00pm - 10:00pm  ☐ Yes  ☐ No

**Young Professionals Luncheon**
- **Tuesday, April 24, 2012** • Gramercy Suite, Hilton New York
  - 12:00pm - 1:00pm  ☐ Yes  ☐ No

**Annual Meeting Closing Reception with Technical Exhibitors**
- **Wednesday, April 25, 2012** • Hilton New York in Americas Hall I
  - 6:30pm - 7:30pm  ☐ Yes  ☐ No

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**Guest(s) Registration for one or both Receptions:**

- ☐ 50th Anniversary Reception ($75 USD)  ☐ Annual Meeting Closing Reception ($40 USD)
  - The Museum of Modern Art (MoMA)  Hilton New York in Americas Hall I

- First Name: ______________________________ | Initial: ___________________________ |
- Last/Family Name: ____________________________________________

If you would like to register more than one guest(s) please contact Mollie at mryan@asnr.org
# Meeting Registration Form: Part II

Please place a check (✔) in the appropriate box to indicate registration classification and fee. (Registration fees are applicable to all program participants.)

<table>
<thead>
<tr>
<th>Classification</th>
<th>Member Fee</th>
<th>ASNR Members-in-Training Fee (Fellow &amp; Resident Members)</th>
<th>Young Professionals Fee (Medical Students &amp; those that are Fellows &amp; Residents living outside USA, Canada &amp; Mexico)</th>
<th>Non-Member Fee</th>
<th>ISMRM Member Fee</th>
</tr>
</thead>
<tbody>
<tr>
<td>The Foundation of the ASNR Symposium &amp; 50th Annual Meeting (Entire Meeting – 6 days - Sat-Thur)</td>
<td>$1250</td>
<td>$835</td>
<td>$835</td>
<td>$1750</td>
<td>$1250</td>
</tr>
<tr>
<td>The Foundation of the ASNR/ISMRM Symposium, SNO/ASFNR/ASHNR/SNIS/General Neuro (4 Days - Sat - Tue)</td>
<td>$900</td>
<td>$635</td>
<td>$635</td>
<td>$1250</td>
<td>$900</td>
</tr>
<tr>
<td>ASSR/SNIS/ASFNR/ASHNR/ASPNR/General Neuro (4 Days - Mon-Thur)</td>
<td>$1050</td>
<td>$660</td>
<td>$660</td>
<td>$1375</td>
<td>$1050</td>
</tr>
<tr>
<td>ASSR/SNIS/ASFNR/ASHNR/ASPNR/General Neuro (3 Days - Mon-Wed)</td>
<td>$850</td>
<td>$560</td>
<td>$560</td>
<td>$1150</td>
<td>$850</td>
</tr>
<tr>
<td>ASSR/SNIS/ASFNR/ASHNR/ASPNR/General Neuro (3 Days - Tue-Thur)</td>
<td>$850</td>
<td>$560</td>
<td>$560</td>
<td>$1150</td>
<td>$850</td>
</tr>
<tr>
<td>The Foundation of the ASNR/ISMRM Symposium (2 Days - Sat-Sun)</td>
<td>$475</td>
<td>$335</td>
<td>$355</td>
<td>$750</td>
<td>$475</td>
</tr>
</tbody>
</table>

*If you would like a one (1) day in addition to our current packages; please contact Mollie at mryan@asnr.org

### Notes:

- **Registration fee increase of $100 after March 23, 2012**
- **Member Rate:** Only members of ASNR and participating societies (ASPNR/ASFNR/ASHNR/SNIS/ASSR) are eligible to register at the Member Rate.
- **Non-Member Fee:** If you are a part of SNO/ESNR/SILAN and not a member of ASNR or subspecialty societies register at the Non-Member Rate.
- **ASNR Member-in-Training Fee:** Only ASNR Member-in-Training are eligible to register at the ASNR Member-in-Training Rate.
- **Young Professionals Fee:** Medical Students that live in or outside the USA can register at the Young Professionals Fee. If you are a Resident or in a Fellowship and living outside USA, Canada or Mexico you can register at the Young Professionals Fee.

### Form of Payment

- VISA
- Master Card
- American Express
- Money order (must be paid in U.S. funds, drawn on a U.S. bank only and made payable to ASNR)

Credit Card #: _____________________________ Exp. Date: __________ Cardholder's Name: ___________________________

Signature: __________________________________ Billing Address: ____________________________________________

By signing this form: I authorize ASNR to charge my credit card for the 50th Annual Meeting registration, acknowledge that the ASNR Advance Registration policies are in effect, and grant to the ASNR the right to use photos taken at the 50th Annual Meeting which include me in promotional materials for future meetings.
Hotel Room Reservation Form

Please make sure that your handwriting is legible. If not, please type or complete the form online.

Name: ________________________________________________________________

Share with: _____________________________________________________________

Address: __________________________________________________________________

City: __________________________ State/Province: __________________________

Zip: ________________________________ Country: __________________________

Institution: _____________________________________________________________

Email: ________________________________________________________________

Phone (Office):__________________________________________________________

Home: ________________________________________________________________

Cell: __________________________________________________________________

Form of Payment

☐ Money order (must be paid in U.S. funds, drawn on a U.S. bank only and made payable to ASNR)

☐ VISA  ☐ Master Card  ☐ American Express

Credit Card No.: ___________________________ Expiration Date: ____________

Cardholder’s Name: ______________________________________________________

Billing Address: __________________________________________________________________

Signature: __________________________________________________________________

Room Preference

# of Rooms_____ # of Adults_____ # of Children_______

Room Type

☐ One Bed/King  ☐ Two Beds/Double

☐ Wheelchair Accessible

Arrival Date: ____/____/2012  Departure Date: ____/____/2012

Estimated Time of Arrival _____:_____

☐ A.M.  ☐ P.M.

Hilton Honors #_______________________________

* Upgrades are available, to request an upgrade please contact Mollie at mryan@asnr.org for more information.

Special Request (please be specific): Please enter special request for your stay in the space below. Please note that special requests cannot be guaranteed until check-in, but we will do our best to accommodate you.

________________________________________________________________________

________________________________________________________________________

If you have any questions, please contact Mollie Ryan at the ASNR Headquarters Office, (630) 574-0220 ext. 231 or via email at mryan@asnr.org

HOUSING RESERVATION DEADLINE: FRIDAY, MARCH 9, 2012

<table>
<thead>
<tr>
<th>Room Type</th>
<th>Rate Per Night</th>
<th>Advance Room Deposit*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard</td>
<td>$319.00 USD</td>
<td>$370.00 USD</td>
</tr>
</tbody>
</table>

*As of 11/11/11, includes a 14.25% sales and hotel tax and $3.50 additional cost per room/per night.

CANCELLATIONS made in writing BEFORE Friday, March 9, 2012 will result in a FULL REFUND

CANCELLATIONS made AFTER 5:00pm CST on Friday, March 9, 2012 NO REFUNDS will be given

CHANGE in Housing Reservation AFTER Friday, March 30, 2012 can be made with Hilton New York Hotel directly