

**ELC:** Electronic Learning Center; **ASITN:** American Society of Interventional Neuroradiology;

**ASHNR:** American Society of Head and Neck Radiology

(Meals and Breaks: Breakfasts, Morning and Afternoon Coffee Service, and Boxed Lunches will be provided throughout the week.

Please note 43rd Annual Meeting food service locations vary throughout week based on Technical Exhibit hours and How-to Session programming).

**6:30am - 7:55am** **BREAKFAST** **Room 105/106 Foyer**

**6:50am - 7:50am** **HOW-TO SESSION BREAKFAST** **Room 105/106**  
**Sponsor: Boston Scientific**

**8:00am - 8:05am** **1** **OPENING REMARKS** **Room 105/106**  
**Victor M. Haughton, MD, ASNR President**

**8:00am - 12:00pm** **2** **ASNR RESEARCH GRANT WRITING SEMINAR: PRACTICAL** **Room 201 B**  
**(Break 9:30am-9:40am)** **CEU 3.75** **TIPS ON GETTING YOUR GRANT FUNDED - PART I**  
 - Janet S. Rasey, PhD

**8:05am - 9:05am** **3** **ELC LECTURE A: THE RADIOLOGIST'S COMPUTER:** **Room 205**  
**PC & MACINTOSH PERSPECTIVES**  
 Hervey D. Segall, MD; Gregory L. Katzman, MD

**8:05am - 9:35am** **4** **CERVICAL CAROTID ARTERY ATHEROSCLEROSIS (ASITN)** **Theatre**  
**CEU 1.50**  
*Moderator: Gary R. Duckwiler, MD*

8:05am - 8:20am Imaging the Cervical Carotid Artery  
 - Jeffrey L. Sunshine, MD, PhD  
 8:20am - 8:40am Stroke Risk and Medical Treatment of Cervical Carotid Artery Stenosis  
 - Helmi Lutsep, MD  
 8:40am - 9:00am Current Status of Carotid Artery Stenting  
 - Gary R. Duckwiler, MD  
 9:00am - 9:15am Current Status of Endarterectomy  
 - Philip E. Stieg, MD, PhD  
 9:15am - 9:35am Case Management Discussion (by Moderators)

**8:05am - 9:35am** **5** **NON-NEOPLASTIC TEMPORAL BONE IMAGING (ASHNR)** **Room 105/106**  
**CEU 1.5**  
*Moderators: H. Ric Harnsberger, MD; Richard H. Wiggins, III, MD*

8:05am - 8:35am Middle Ear Disease  
 - H. Ric Harnsberger, MD  
 8:35am - 9:05am Tinnitus-Pulsatile and Not  
 - Michele H. Johnson, MD  
 9:05am - 9:35am Facial Palsy  
 - Richard H. Wiggins, III, MD

**8:05am - 9:35am** **6** **ELC WORKSHOP A: INTRODUCTORY POWERPOINT** **Room 103**  
**CEU 1.5**  
 John L. Go, MD

**9:35am - 9:55am** **MORNING BREAK** **Theatre Foyer/Room 105/106 Foyer**

**10:00am - 11:45am** **7** **PARALLEL SCIENTIFIC PAPER SESSION**  
**CEU 1.5**

10:00am - 11:30am Session 7a INTERVENTIONAL: ENT Intervention and Miscellaneous **Room 105/106**  
Moderators Gary M. Nesbit, MD; Michael P. Marks, MD  
 10:00am - 11:33am Session 7b HEAD AND NECK: Temporal Bone, Sinusoidal **Theatre**  
Moderators Mahmood F. Mafee, MD, FACR; Alexander S. Mark, MD  
 10:00am - 11:38am Session 7c INTERVENTIONAL: Aneurysms **Room 107**  
 (1.75 CEU) Moderators Gary R. Duckwiler, MD; Jacques G. Moret, MD  
 10:00am - 11:30am Session 7d ADULT BRAIN: Vascular, Extracranial **Room 205**  
Moderators J. Pablo Villablanca, MD; Jeffrey L. Sunshine, MD, PhD

**10:15am - 11:45am** **8** **ELC WORKSHOP B: ADVANCED POWERPOINT** **Room 103**  
**CEU 1.5**  
 Richard H. Wiggins, III, MD; H. Christian Davidson, MD

**11:45am - 12:50pm** **LUNCH BREAK** **Room 105/106 Foyer**

**11:50am - 12:50pm** **HOW-TO SESSION LUNCH** **Room 105/106**  
**Sponsor: Boston Scientific**

**ELC:** Electronic Learning Center; **ASITN:** American Society of Interventional Neuroradiology;  
**ASHNR:** American Society of Head and Neck Radiology

1:00pm - 1:30pm	9 CEU .5	<b>ELC LECTURE B: HIGH SPEED CONNECTIVITY UPDATE</b> Gerard J. Muro, MD	Room 205
1:00pm - 2:30pm	10 CEU 1.5	<b>VASCULAR MALFORMATIONS OF THE HEAD AND NECK (ASITN)</b> <i>Moderator: Mary E. Jensen, MD</i>	Theatre
1:00pm - 1:25pm		Imaging of Head and Neck Vascular Malformations -Anton N. Hasso, MD, FACR	
1:25pm - 1:50pm		Treatment of Hi-Flow Lesions - Wayne F. Yakes, MD	
1:50pm - 2:15pm		Treatment of Low-Flow Lesions - Patricia E. Burrows, MD	
2:15pm - 2:30pm		Discussion	
1:00pm - 2:30pm	11 CEU 1.5	<b>NEUROPATHIES OF THE HEAD AND NECK (ASHNR)</b> <i>Moderators: Wendy R.K. Smoker, MD, FACR; William P. Dillon, MD</i>	Room 105/106
1:00pm - 1:30pm		Upper Cranial Nerves (III-VI) - William P. Dillon, MD	
1:30pm - 2:00pm		Lower Cranial Nerves (IX-XII) - Wendy R.K. Smoker, MD, FACR	
2:00pm - 2:30pm		Brachial Plexopathy - Brian C. Bowen, PhD, MD	
1:00pm - 2:30pm	12 CEU 1.5	<b>NEURONEWS PAPER SESSION: TBD</b> <i>Moderators: TBD</i>	Room 107
1:00pm - 2:30pm	13 CEU 1.5	<b>ASNR BUSINESS CENTER - Part I</b> <i>Moderator: Gregory L. Katzman, MD</i>	Room 201 B
1:00pm - 1:30pm		Welcome and Introduction to Business Issues in Radiology - Gregory L. Katzman, MD	
1:30pm - 2:00pm		Net Present Value and Finance for Practicing Radiologists - Jonathan Breslau, MD	
2:00pm - 2:30pm		Managerial Accounting Applications in Radiology - Frank J. Lexa, MD, MBA	
1:00pm - 2:30pm	14 CEU 1.5	<b>ELC WORKSHOP C: WEBSITE CREATION FOR THE NOVICE</b> Richard H. Wiggins, III, MD	Room 103
1:30pm - 2:00pm	15 CEU .5	<b>ELC LECTURE C: CAPTURING &amp; USING IMAGE FILES</b> Barton F. Branstetter, IV, MD	Room 205
2:30pm - 2:55pm		<b>AFTERNOON BREAK</b>	Theatre Foyer/Room 105/106 Foyer
3:00pm - 4:00pm	16 CEU 1	<b>NATIONAL LIBRARY OF MEDICINE (NLM) WORKSHOP: PUBMED/MEDLINEPLUS: ADVANCED TIPS AND TRICKS</b> Linda Milgrom	Room 103
3:00pm - 4:30pm	17 CEU 1.5	<b>PARALLEL SCIENTIFIC PAPER SESSION</b>	
3:00pm - 4:30pm	Session 17a <i>Moderators</i>	HEAD AND NECK: Neck and Extracranial Carotid <i>Anton N. Hasso, MD, FACR; Wendy R.K. Smoker, MD, FACR</i>	Room 105/106
3:00pm - 4:30pm	Session 17b <i>Moderators</i>	INTERVENTIONAL: Arteriovenous Malformations/Fistulae <i>Philippe E. Gailloud, MD; John D. Barr, MD</i>	Theatre
3:00pm - 4:21pm	Session 17c <i>Moderators</i>	HEAD AND NECK: Neck, New Techniques, and Excerptas <i>Edward E. Kassel, MD; Suresh K. Mukherji, MD</i>	Room 107
3:00pm - 4:44pm (1.75 CEU)	Session 17d <i>Moderators</i>	ADULT BRAIN: Infarction and Vasospasm <i>Pamela W. Schaefer, MD; Colin P. Derdeyn, MD</i>	Room 205



6:30am - 7:55am		<b>BREAKFAST</b>	Room 105/106 Foyer
6:50am - 7:50am		<b>HOW-TO SESSION BREAKFAST</b> Sponsor: Philips Medical Systems	Room 105/106
8:00am - 12:00pm (Break 9:30am-9:40am)	20 CEU 3.75	<b>ASNR RESEARCH GRANT WRITING SEMINAR: PRACTICAL TIPS ON GETTING YOUR GRANT FUNDED - PART II</b> - Janet S. Rasey, PhD	Room 201 B
8:00am - 9:00am	21 CEU 1	<b>ELC LECTURE D: MULTIMEDIA CONFERENCE ROOM 2005</b> Venkata Natarajan, PhD	Room 205
8:00am - 9:30am	22 CEU 1.5	<b>INTRACRANIAL ATHEROSCLEROTIC DISEASE (ASITN)</b> <i>Moderator: John D. Barr, MD</i>	Room 105/106
	8:00am - 8:20am	Stroke Risk And Medical Treatment of Intracranial Arterial Stenosis - Helmi Lutsep, MD	
	8:20am - 8:30am	Surgical Treatment of Intracranial Arterial Stenosis - Colin P. Derdeyn, MD	
	8:30am - 8:50am	Angioplasty for Intracranial Arterial Stenosis - Michael P. Marks, MD	
	8:50am - 9:10am	Stenting for Intracranial Arterial Stenosis - John D. Barr, MD	
	9:10am - 9:30am	Case Management Discussion (by Moderators)	
8:00am - 9:30am	23 CEU 1.5	<b>FACIAL IMAGING (ASHNR)</b> <i>Moderators: Edward E. Kassel, MD; James J. Abrahams, MD</i>	Theatre
	8:00am - 8:30am	Mandibular Imaging - James J. Abrahams, MD	
	8:30am - 9:00am	Parotid and Submandibular Gland Pathology - Edward E. Kassel, MD	
	9:00am - 9:30am	Buccal, Masticator and Parapharyngeal Spaces - Deborah L. Reede, MD	
8:00am - 9:30am	24 CEU 1.5	<b>UPDATES AND CONTROVERSIES ON MR SAFETY: Can Patients With Implantable Cardiac Rhythm Devices Safely Undergo Magnetic Resonance Imaging? (General) (ARS)</b> <i>Moderator: Emanuel Kanal, MD</i>	Room 107
		- J. Rob Gimbel, MD, FACC & Emanuel Kanal, MD	
8:00am - 9:30am	25 CEU 1.5	<b>ELC WORKSHOP A: INTRODUCTORY POWERPOINT</b>	Room 103
		John L. Go, MD; David S. Martin, MD	
9:30am - 9:55am		<b>MORNING BREAK</b>	Exhibit Hall A
10:00am - 11:45am	26 CEU 1.5	<b>PARALLEL SCIENTIFIC PAPER SESSION</b>	
10:00am - 11:36am	Session 26a <i>Moderators</i>	<b>INTERVENTIONAL: Intracranial Aneurysms</b> <i>John C. Chaloupka, MD; Aquilla S. Turk, DO</i>	Room 105/106
10:00am - 11:33am	Session 26b <i>Moderators</i>	<b>INTERVENTIONAL: Stroke Therapy and Stenting</b> <i>Joan C. Wojak, MD; Allan J. Fox, MD, FRCPC, FACR</i>	Theatre
10:00am - 11:44am (1.75 CEU)	Session 26c <i>Moderators</i>	<b>INTERVENTIONAL: Angioplasty, Stenting, and New Techniques</b> <i>Jacques E. Dion, MD; Donald W. Larsen, MD</i>	Room 107
10:00am - 11:36am	Session 26d <i>Moderators</i>	<b>ADULT BRAIN: Neoplasms and New Techniques</b> <i>John L. Ulmer, MD; James G. Smirniotopoulos, MD</i>	Room 205
10:15am - 11:45am	27 CEU 1.5	<b>ELC WORKSHOP B: ADVANCED POWERPOINT</b>	Room 103
		Richard H. Wiggins, III, MD; H. Christian Davidson, MD	

11:45am - 12:55pm		<b>LUNCH BREAK</b>	<b>Exhibit Hall A</b>
11:50am - 12:50pm		<b>HOW-TO SESSION LUNCH</b> <b>Sponsor: Siemens Medical Systems</b>	<b>Room 105/106</b>
1:00pm - 2:30pm	<b>28</b> <b>CEU 1.5</b>	<b>FUNCTIONAL MRI (ASFNR)</b>	<b>Room 107</b>
		<i>Moderator: Andrei I. Holodny, MD</i>	
	1:00pm - 1:30pm	Operative Risk Assessment for Neurosurgical Patients - John L. Ulmer, MD	
	1:30pm - 2:00pm	fMRI Data Analysis for the Radiologist: Facts and Artifacts - Joseph A. Maldjian, MD	
	2:00pm - 2:30pm	How Lesions Affect Brain Function: Imaging of Cortical Plasticity - Andrei I. Holodny, MD	
1:00pm - 2:30pm	<b>29</b> <b>CEU 1.5</b>	<b>FUNDAMENTALS OF MEDICAL REIMBURSEMENT FOR DIAGNOSTIC AND THERAPEUTIC NEURORADIOLOGY (ASITN)</b>	<b>Room 105/106</b>
		<i>Moderator: John J. Connors, III, MD</i>	
	1:00pm - 1:25pm	The Mechanism of Reimbursement for Hospitals and Physicians - J. Arliss Pollock, MD	
	1:25pm - 1:50pm	Importance and Methodology of the RUC Survey Process - Andrew Ku, MD	
	1:50pm - 2:15pm	Update on Neurovascular Procedure Reimbursement Initiatives - John J. Connors, III, MD	
	2:15pm - 2:30pm	Discussion	
1:00pm - 2:45pm	<b>30</b> <b>CEU 1.75</b>	<b>HEAD AND NECK SARCOMA (ASHNR)</b>	<b>Theatre</b>
		<i>Moderators: Roy A. Holliday, MD; Lawrence E. Ginsberg, MD</i>	
	1:00pm - 1:25pm	Pathology Principles - Bruce M. Wenig, MD	
	1:25pm - 1:55pm	Imaging of Head and Neck Sarcomas - Lawrence E. Ginsberg, MD	
	1:55pm - 2:20pm	Surgical Principles - What We Need to Know from Imagers - Patrick Gullane, MB, FRCSC, FACS	
	2:20pm - 2:45pm	Non-Surgical Therapies - Brian O'Sullivan, MD, FRCPC, FRCPI	
1:00pm - 2:30pm	<b>31</b> <b>CEU 1.5</b>	<b>ASNR BUSINESS CENTER - Part II</b>	<b>Room 201 B</b>
		<i>Moderator: Gregory L. Katzman, MD</i>	
	1:00pm - 1:30pm	Financial Perspectives and Concepts in Radiology - Dieter Enzmann, MD, MBA	
	1:30pm - 2:00pm	Private Practice vs. Academic Management - Steve Stevens, MD	
	2:00pm - 2:30pm	Offshore Teleradiology: Bane or Boon? - William G. Bradley, MD, PhD, FACR	
1:00pm - 2:30pm	<b>32</b> <b>CEU 1.5</b>	<b>ELC WORKSHOP D: ADOBE PHOTOSHOP AND ELEMENTS</b>	<b>Room 103</b>
		Richard M. Berger, MD	
2:30pm - 2:55pm		<b>AFTERNOON BREAK</b>	<b>Exhibit Hall A</b>
3:00pm - 4:30pm	<b>33</b> <b>CEU 1.5</b>	<b>PARALLEL SCIENTIFIC PAPER SESSION</b>	
3:00pm - 4:30pm	Session 33a	INTERVENTIONAL: Aneurysms and Spinal Vascular Malformations	<b>Room 105/106</b>
	<i>Moderators</i>	<i>Ajay K. Wakhloo, MD; Alexander M. Norbash, MD</i>	
3:00pm - 4:30pm	Session 33b	ADULT BRAIN: Functional Imaging and Advanced Techniques	<b>Theatre</b>
	<i>Moderators</i>	<i>Joseph A. Maldjian, MD; Michael A. Kraut, MD</i>	
3:00pm - 4:30pm	Session 33c	ADULT BRAIN: Functional and Advanced Imaging of Brain Neoplasms	<b>Room 107</b>
	<i>Moderators</i>	<i>Aaron S. Field, MD, PhD; Andrei I. Holodny, MD</i>	
3:00pm - 4:33pm	Session 33d	ADULT BRAIN: Degenerative, Dementias and Destructive Lesions	<b>Room 205</b>
	<i>Moderators</i>	<i>John R. Hesselink, MD, FACR; Meng Law, MD</i>	



**ELC:** Electronic Learning Center; **ASITN:** American Society of Interventional Neuroradiology; **ASHNR:** American Society of Head and Neck Radiology; **ASFNR:** American Society of Functional Neuroradiology; **ARS:** Audience Response System Programming

<b>3:00pm - 4:30pm</b>	<b>34</b> <b>CEU 1.5</b>	<b>ELC WORKSHOP C: WEBSITE CREATION FOR THE NOVICE</b> Richard H. Wiggins, III, MD	<b>Room 103</b>
<b>4:40pm - 5:40pm</b>	<b>35</b> <b>CEU 1</b>	<b>ELC LECTURE E: ADVANCED IMAGING PROCESSING IN MRI</b> Todd B. Parrish, PhD	<b>Room 205</b>
<b>4:40pm - 6:10pm</b>	<b>36</b> <b>CEU 1.5</b>	<b>INTERVENTIONS FOR HEAD AND NECK NEOPLASMS (ASITN)</b> <i>Moderator: Gary M. Nesbit, MD</i>	<b>Room 105/106</b>
	4:40pm - 5:05pm	Intra-arterial Chemotherapy - Wade H.M. Wong, DO	
	5:05pm - 5:30pm	Radiofrequency Ablation - Allan L. Brook, MD	
	5:30pm - 5:55pm	Intervention for Carotid Artery "Blow-Out" - Gary M. Nesbit, MD	
	5:55pm - 6:10pm	Discussion	
<b>4:40pm - 6:10pm</b>	<b>37</b> <b>CEU 1.5</b>	<b>GENERAL NEURORADIOLOGY SESSION (ARS)</b> <i>Moderators: James G. Smirniotopoulos, MD; Robert D. Zimmerman, MD</i>	<b>Room 107</b>
		<i>Panelists:</i> James G. Smirniotopoulos, MD Robert D. Zimmerman, MD David M. Yousem, MD, MBA	
<b>4:45pm - 6:15pm</b>	<b>38</b> <b>CEU 1.5</b>	<b>ADVANCED IMAGING SEMINAR - PERFUSION</b> <i>Moderators: Timothy P.L. Roberts, PhD; Howard A. Rowley, MD</i>	<b>Theatre</b>
time change			
	4:45pm - 5:10pm	MR and CT Perfusion Techniques in Stroke - Pamela W. Schaefer, MD	
	5:10pm - 5:35pm	MR Permeability Imaging - Timothy P.L. Roberts, PhD	
	5:35pm - 6:00pm	Arterial Spin Labeling & CMRO2 Measurements - Xavier Golay, PhD	
	6:00pm - 6:15pm	Panel Discussion	
<b>5:00pm - 6:00pm</b>	<b>39</b> <b>CEU 1</b>	<b>NATIONAL LIBRARY OF MEDICINE (NLM) WORKSHOP: WHEN PUBMED IS NOT THE ANSWER</b> - Maryanne Blake	<b>Room 103</b>
<b>6:00pm - 7:30pm</b>		<b>HOW-TO SESSION RECEPTION</b> Sponsor: GE Healthcare	<b>Room 105/106</b>

**ELC:** Electronic Learning Center; **ASSR:** American Society of Spine Radiology; **ASPNR:** American Society of Pediatric Neuroradiology; **ASFNR:** American Society of Functional Neuroradiology; **ARS:** Audience Response System Programming

6:30am - 7:55am		<b>BREAKFAST</b>	<b>Room 105/106 Foyer</b>
6:50am - 7:50am		<b>HOW-TO SESSION BREAKFAST</b> Sponsor: Bracco Diagnostics, Inc.	<b>Room 105/106</b>
8:00am - 9:30am	<b>40</b> CEU 1.5	<b>SPECIAL SESSION: SURVIVING CHANGE: NEURORADIOLOGY PRACTICE</b> <i>Moderators: TBD</i>	<b>Room 105/106</b>
	8:00am - 8:30am	Overview of NER Foundation and Resource Utilization - A. James Barkovich, MD, Chair	
	8:30am - 8:45am	Report from the Clinical Practice Committee: Aligning ASNR CPC Activities with Other Societies - Patrick A. Turski, MD, ASNR Clinical Practice Committee	
	8:45am - 9:00am	The Neurovascular Coalition Gary R. Duckwiler, MD	
	9:00am - 9:30am	Update on Maintenance of Certification (MOC) - Glenn Forbes, MD, ASNR ABR 2nd Trustee	
8:00am - 9:30am	<b>41</b> CEU 1.5	<b>PERSPECTIVES ON SUBMISSION OF GRANT APPLICATIONS</b> <i>Moderator: James M. Provenzale, MD</i>	<b>Room 205</b>
	8:00am - 8:30am	Grantsmanship: The Art of Writing a Grant - Colin P. Derdeyn, MD	
	8:30am - 9:00am	The NIH Review Process - R. Nick Bryan, MD, PhD	
	9:00am - 9:30am	Research Funding Opportunities for Neuroradiologists - James M. Provenzale, MD	
9:30am - 9:55am		<b>MORNING BREAK</b>	<b>Exhibit Hall A</b>
10:00am - 10:15am	<b>42</b>	<b>ASNR PRESIDENTIAL ADDRESS</b> - Victor M. Haughton, ASNR President	<b>Room 105/106</b>
10:15am - 11:10am	<b>43</b>	<b>ASNR AWARDS PRESENTATION</b>	<b>Room 105/106</b>
	10:15am - 10:30am	Presentation of 2005 ASNR Gold Medal Award <i>Moderators: Victor M. Haughton, MD, ASNR President</i> <i>Michael Deck, MD, FACR, Chair, Gold Medal Award Committee</i>	
	10:30am - 10:40am	Presentation of 2005 ASNR Honorary Member <i>Moderator: Norman E. Leeds, MD, Chair, Honorary Member Committee</i>	
	10:40am - 10:45am	Announcement of 2004 Outstanding Presentation Awards <i>Moderator: James G. Smirniotopoulos, MD, Chair, Education Committee</i>	
	10:45am - 10:55am	Presentation of the Neuroradiology Education and Research (NER) Foundation Award for Outstanding Contributions in Research <i>Moderator: A. James Barkovich, MD, Chair</i> <i>Neuroradiology Education and Research (NER) Foundation</i>	
	10:55am - 11:05am	Announcement of 2005 NER Foundation Scholar Award in Neuroradiology Research Announcement of 2005 NER Foundation Outcomes Research Grant in Neuroradiologic Imaging Announcement of 2005 NER Foundation/Boston Scientific Fellowship in Cerebrovascular Disease Research Announcement of 2005 Berlex/NER Foundation Fellowship in Basic Science Research Awards <i>Moderator: Howard A. Rowley, MD, Chair, Research Committee</i>	
	11:05am - 11:10am	Announcement of Symposium Neuroradiologicum (SNR) XVII/World Federation of Neuroradiological Societies (WFNRS) <i>Michael S. Huckman, MD, WFNRS President</i>	
11:10am - 11:40am	<b>44</b>	<b>American Society of Neuroradiology (ASNR) ANNUAL BUSINESS MEETING (Members only)</b>	<b>Room 105/106</b>

**ELC:** Electronic Learning Center; **ASSR:** American Society of Spine Radiology; **ASPNR:** American Society of Pediatric Neuroradiology; **ASFNR:** American Society of Functional Neuroradiology; **ARS:** Audience Response System Programming

11:40am - 12:55pm		<b>LUNCH BREAK</b>	<b>Exhibit Hall A</b>
11:50am - 12:50pm		<b>HOW-TO SESSION LUNCH</b> Sponsor: Philips Medical Systems	<b>Room 105/106</b>
12:00pm - 12:55pm	45	<b>AMERICAN SOCIETY OF FUNCTIONAL NEURORADIOLOGY (ASFNR) ANNUAL BUSINESS MEETING (Members only)</b>	<b>Room 201F</b>
1:00pm - 2:30pm	46 CEU 1.5	<b>NEURODEGENERATIVE DISORDERS (ASFNR)</b> <i>Moderator: R. Gilberto Gonzalez, MD, PhD</i>	<b>Theatre</b>
	1:00pm - 1:30pm	Neuroradiology of Neurodegenerative Disorders - Sasan Karimi, MD	
	1:30pm - 2:00pm	Functional Imaging of Neurodegenerative Disorders - Jeffrey R. Petrella, MD	
	2:00pm - 2:30pm	From Molecules to Neuroimaging - R. Gilberto Gonzalez, MD, PhD	
1:00pm - 2:30pm	47 CEU 1.5	<b>EVALUATION AND MANAGEMENT OF INTRACTABLE SEIZURES IN CHILDREN (ASPNR)</b> <i>Moderators: Marvin D. Nelson, MD; David G. Ashley, MD</i>	<b>Room 105/106</b>
	1:00pm - 2:30pm	- O. Carter Snead, III, MD & James T. Rutka, MD, PhD	
1:00pm - 2:30pm	48 CEU 1.5	<b>SPINE CASE BASED REVIEW (ASSR) (ARS)</b> <i>Moderators: David M. Yousem, MD, MBA; Gordon K. Sze, MD</i>	<b>Room 107</b>
		<i>Panelists</i> - Gordon K. Sze, MD - David M. Yousem, MD, MBA - Erin M. Simon, MD - Mauricio Castillo, MD	
1:00pm - 1:45pm	49 CEU .75	<b>SOCIOECONOMIC PARALLEL PAPER SESSION</b> <i>Moderators: Kelly K. Koeller, MD; Irwin A. Keller, MD</i>	<b>Room 205</b>
1:00pm - 2:30pm	50 CEU 1.5	<b>ELC WORKSHOP B: ADVANCED POWERPOINT</b> Richard H. Wiggins, III, MD; H. Christian Davidson, MD	<b>Room 103</b>
2:30pm - 2:55pm		<b>AFTERNOON BREAK</b>	<b>Exhibit Hall A</b>
3:00pm - 4:40pm	51 CEU 1.5	<b>PARALLEL SCIENTIFIC PAPER SESSION</b>	
3:00pm - 4:30pm	Session 51a <i>Moderators</i>	PEDIATRICS: Epilepsy and Non-Neoplastic Miscellaneous <i>Jill V. Hunter, MD; A. James Barkovich, MD</i>	<b>Room 105/106</b>
3:00pm - 4:32pm	Session 51b <i>Moderators</i>	ADULT BRAIN: Demyelinating and Miscellaneous Non-Neoplastic Lesions <i>Robert D. Zimmerman, MD; Soonmee Cha, MD</i>	<b>Theatre</b>
3:00pm - 4:33pm	Session 51c <i>Moderators</i>	SPINE: Functional and Degenerative <i>Victor M. Haughton, MD; Gordon K. Sze, MD</i>	<b>Room 107</b>
3:00pm - 4:30pm	Session 51d <i>Moderators</i>	ADULT BRAIN: New Imaging and Post-Processing Techniques <i>Patrick A. Turski, MD; Michael L. Lipton, MD</i>	<b>Room 205</b>
3:00pm - 4:30pm	52 CEU 1.5	<b>ELC WORKSHOP A: INTRODUCTORY POWERPOINT</b> David S. Martin, MD	<b>Room 103</b>
4:40pm - 5:40pm	53 CEU 1	<b>ELC LECTURE F: fMRI POST-PROCESSING</b> Timothy P.L. Roberts, PhD	<b>Room 205</b>

**ELC:** Electronic Learning Center; **ASSR:** American Society of Spine Radiology; **ASPNR:** American Society of Pediatric Neuroradiology; **ASFNR:** American Society of Functional Neuroradiology; **ARS:** Audience Response System Programming

<b>4:40pm - 6:10pm</b>	<b>54</b> <b>CEU 1.5</b>	<b>PEDIATRIC CASE BASED STUDIES (ASPNR) (ARS)</b>	<b>Room 107</b>
		<i>Moderators: Charles M. Glasier, MD; Gary L. Hedlund, DO</i>	
		<i>Panelist:</i> <i>Ashok Panigrahy, MD</i> <i>Blaise V. Jones, MD</i> <i>P. Ellen Grant, MD</i> <i>Gary L. Hedlund, DO</i> <i>Jill V. Hunter, MD</i> <i>Charles M. Glasier, MD</i> <i>Yutaka Sato, MD</i> <i>Lisa H. Lowe, MD</i>	
<b>4:40pm - 6:10pm</b>	<b>55</b> <b>CEU 1.5</b>	<b>NEURORADIOLOGY CORE CURRICULUM (GENERAL)</b>	<b>Room 105/106</b>
		<i>Moderator: Robert D. Zimmerman, MD; Eric J. Russell, MD, FACR</i>	
	4:40pm - 5:10pm	Head Trauma - Eric J. Russell, MD, FACR	
	5:10pm - 5:40pm	Demyelinating Disease - Robert I. Grossman, MD	
	5:40pm - 6:10pm	Intracranial Infection - Robert D. Zimmerman, MD	
<b>4:45pm - 6:15pm</b>	<b>56</b> <b>CEU 1.5</b>	<b>ADVANCED IMAGING SEMINAR - SPECTROSCOPY</b>	<b>Theatre</b>
time change		<i>Moderators: Howard A. Rowley, MD; Timothy P.L. Roberts, PhD</i>	
	4:45pm - 5:10pm	MR Spectroscopy: Basics and Techniques - J. Michael Tyszka, PhD	
	5:10pm - 5:35pm	MR Spectroscopy: Adult Applications - Mauricio Castillo, MD	
	5:35pm - 6:00pm	MR Spectroscopy: Pediatric Applications - Robert A. Zimmerman, MD	
	6:00pm - 6:15pm	Panel Discussion	
<b>5:00pm - 6:00pm</b>	<b>57</b> <b>CEU 1</b>	<b>NATIONAL LIBRARY OF MEDICINE (NLM) WORKSHOP: PUBMED/MEDLINEPLUS: ADVANCED TIPS AND TRICKS</b>	<b>Room 103</b>
		Linda Milgrom	
<b>5:40pm - 6:10pm</b>	<b>58</b> <b>CEU .5</b>	<b>ELC LECTURE G: PDA'S AND THE RADIOLOGIST</b>	<b>Room 205</b>
		Richard H. Wiggins, III, MD	
<b>6:15pm - 7:30pm</b>		<b>EVENING OF COMEDY &amp; CUISINE RECEPTION</b>	<b>Exhibit Hall A</b>
<b>8:00pm - 9:00pm</b>		<b>EVENING OF COMEDY &amp; CUISINE PERFORMANCE</b>	<b>Theatre</b>

**ELC:** Electronic Learning Center; **ASSR:** American Society of Spine Radiology; **ASPNR:** American Society of Pediatric Neuroradiology; **ASFNR:** American Society of Functional Neuroradiology; **ARS:** Audience Response System Programming

6:30am - 7:55am		<b>BREAKFAST</b>	<b>Room 105/106 Foyer</b>
6:50am - 7:50am		<b>HOW-TO SESSION BREAKFAST</b> Sponsor: GE Healthcare	<b>Room 105/106</b>
8:00am - 9:00am	<b>59</b> <b>CEU 1</b>	<b>ELC LECTURE H: DIGITAL TEACHING FILES: OVERVIEW FOR BEGINNERS</b> Gregory L. Katzman, MD	<b>Room 205</b>
8:00am - 9:30am	<b>60</b> <b>CEU 1.5</b>	<b>UPDATES ON "PVL" (ASPNR)</b> <i>Moderators: Gary L. Hedlund, DO; Kevin R. Moore, MD</i>	<b>Theatre</b>
	8:00am - 8:30am	Epidemiology of White Matter Damage in Premature and Term Infants - Alan Leviton, MD, MS	
	8:30am - 9:00am	Neuropathology of White Matter Damage in Premature and Term Infants - Floyd H. Gilles, MD	
	9:00am - 9:30am	Neuroimaging of Perinatal White Matter Injury: Past, Present, Future - Ashok Panigrahy, MD	
8:00am - 9:30am	<b>61</b> <b>CEU 1.5</b>	<b>CT VS. MR IN THE SPINE (ASSR)</b> <i>Moderators: Jeffrey S. Ross, MD; Brian C. Bowen, MD, PhD</i>	<b>Room 105/106</b>
	8:00am - 8:30am	Multislice CT: New Avenues in Spinal Imaging - Alyssa T. Watanabe, MD	
	8:30am - 9:00am	CT Angiography in the Spine - Jeffrey S. Ross, MD	
	9:00am - 9:30am	MR Angiography in the Spine: Latest Techniques - Walter H. Backes, PhD	
8:00am - 9:30am	<b>62</b> <b>CEU 1.5</b>	<b>BRAIN TUMORS (ASFNR)</b> <i>Moderator: William G. Bradley, MD, FACR, MBA</i>	<b>Room 107</b>
	8:00am - 8:30am	Imaging of Angiogenesis - James M. Provenzale, MD	
	8:30am - 9:00am	Functional Diffusion Mapping (fDM): A Novel Approach For Prediction of Therapeutic Outcome in Brain Tumors - Brian D. Ross, MD	
	9:00am - 9:30am	Mouse Models of Brain Tumors - Eric C. Holland, MD	
8:00am - 9:30am	<b>63</b> <b>CEU 1.5</b>	<b>ELC WORKSHOP D: ADOBE PHOTOSHOP AND ELEMENTS</b> Richard M. Berger, MD	<b>Room 103</b>
9:30am - 9:55am		<b>MORNING BREAK</b>	<b>Exhibit Hall A</b>
10:00am - 11:30am	<b>64</b> <b>CEU 1.5</b>	<b>PARALLEL SCIENTIFIC PAPER SESSION</b>	
10:00am - 11:36am	Session 64a	SPINAL CORD AND PERIPHERAL NERVES: Functional and Advanced Imaging Techniques <i>Moderators: Michael I. Rothman, MD; Alan L. Williams, MD, FACR, MBA</i>	<b>Room 105/106</b>
10:00am - 11:30am	Session 64b	ADULT BRAIN: Metabolic and Miscellaneous <i>Moderators: David J. Mikulis, MD; William G. Bradley, MD, PhD, FACR</i>	<b>Theatre</b>
10:00am - 11:33am	Session 64c	ADULT BRAIN: Trauma and Vascular Lesions <i>Moderators: Alisa D. Gean, MD; Lindell R. Gentry, MD</i>	<b>Room 107</b>
10:00am - 11:30am	Session 64d	Great Cases and Excerptas <i>Moderators: TBD; Kelly K. Koeller, MD</i>	<b>Room 205</b>
10:15am - 11:45am	<b>65</b> <b>CEU 1.5</b>	<b>ELC WORKSHOP E: ADVANCED WEBSITE PRODUCTION</b> Dale A. Charletta, MD	<b>Room 103</b>
11:45am - 12:55pm		<b>LUNCH BREAK</b>	<b>Exhibit Hall A</b>

**ELC:** Electronic Learning Center; **ASSR:** American Society of Spine Radiology; **ASPNR:** American Society of Pediatric Neuroradiology; **ASFNR:** American Society of Functional Neuroradiology; **ARS:** Audience Response System Programming

12:00pm - 12:55pm	66	<b>AMERICAN SOCIETY OF SPINE RADIOLOGY (ASSR) ANNUAL BUSINESS MEETING (members only)</b>	Room 201D
12:00pm - 12:55pm	67	<b>AMERICAN SOCIETY OF PEDIATRIC NEURORADIOLOGY (ASPNR) ANNUAL BUSINESS MEETING (members only)</b>	Room 201F
1:00pm - 2:30pm	68 CEU 1.5	<b>REVIEW OF PEDIATRIC BRAIN IMAGING (ASPNR)</b> <i>Moderator: Patrick D. Barnes, MD</i>	Room 105/106
	1:00pm - 1:45pm	The Neonate and Young Infant - P. Ellen Grant, MD	
	1:45pm - 2:30pm	The Older Child and Adolescent - Susan I. Blaser, MD	
1:00pm - 2:30pm	69 CEU 1.5	<b>ADVANCED IMAGING IN THE SPINE (ASSR)</b> <i>Moderators: Christiane K. Kuhl, MD; Lawrence N. Tanenbaum, MD</i>	Theatre
	1:00pm - 1:30pm	Parallel Imaging in the Spine, Theory and Reality - Christiane K. Kuhl, MD	
	1:30pm - 2:00pm	fMRI in the Cord - Spyros Kollias, MD	
	2:00pm - 2:30pm	Imaging of Cell-Based Therapies for Spinal Cord Injury Edward D. Wirth, III, MD, PhD	
1:00pm - 2:30pm	70 CEU 1.5	<b>EMERGING FUNCTIONAL MODALITIES (ASFNR)</b> <i>Moderator: A. Gregory Sorensen, MD</i>	Room 107
	1:00pm - 1:30pm	Advances in Molecular Imaging - A. Gregory Sorensen, MD	
	1:30pm - 2:00pm	Clinical Magnetic Source Imaging - Timothy P.L. Roberts, PhD	
	2:00pm - 2:30pm	fMRI Brain Tumors: Advantages and Challenges - Jay J. Pillai, MD	
1:00pm - 2:00pm	71 CEU 1	<b>NATIONAL LIBRARY OF MEDICINE (NLM) WORKSHOP: WHEN PUBMED IS NOT THE ANSWER</b> Maryanne Blake	Room 103
2:30pm - 2:55pm		<b>AFTERNOON BREAK</b>	Exhibit Hall A
3:00pm - 4:30pm	72 CEU 1.5	<b>PARALLEL SCIENTIFIC PAPER SESSION</b>	
3:00pm - 4:30pm	Session 72a <i>Moderators</i>	ADULT BRAIN: Innovative Techniques and Miscellaneous <i>Walter Kucharczyk, MD, FRCP; Timothy P.L. Roberts, PhD</i>	Room 105/106
3:00pm - 4:30pm	Session 72b <i>Moderators</i>	SPINE: Interventional and Innovative Techniques <i>Brian C. Bowen, MD, PhD; Adam E. Flanders, MD</i>	Theatre
3:00pm - 4:33pm	Session 72c <i>Moderators</i>	PEDIATRICS: Vascular, Trauma and Tumors <i>Tina Young Poussaint, MD; Patrick D. Barnes, MD</i>	Room 107
3:00pm - 4:30pm	Session 72d <i>Moderators</i>	PEDIATRICS: Vascular and Miscellaneous <i>Nancy K. Rollins, MD; Thomas P. Naidich, MD</i>	Room 205
4:40pm - 6:10pm	73 CEU 1.5	<b>DIFFUSION AND OTHER TECHNIQUES IN SPINAL MR IMAGING (ASSR)</b> <i>Moderators: William K. Erly, MD; Carl E. Johnson, MD</i>	Room 105/106
	4:40pm - 5:10pm	In-Phase, Out of Phase Imaging: Can You Differentiate Metastases From Osteoporotic Fractures? - William K. Erly, MD	
	5:10pm - 5:40pm	Diffusion Imaging in the Spine and Spinal Cord - Roland Bammer, MSc	
	5:40pm - 6:10pm	Diffusion Tensor Imaging in the Spinal Cord - Eric D. Schwartz, MD	

**ELC:** Electronic Learning Center; **ASSR:** American Society of Spine Radiology; **ASPNR:** American Society of Pediatric Neuroradiology; **ASFNR:** American Society of Functional Neuroradiology; **ARS:** Audience Response System Programming

4:45pm - 6:15pm	74 CEU 1.5	ADVANCED IMAGING SEMINAR- PARALLEL & HIGH FIELD	Theatre
time change		<i>Moderators: Timothy P.L. Roberts, PhD; Howard A. Rowley, MD</i>	
	4:45pm - 5:10pm	Parallel Imaging: Basics - Klaas P. Pruessmann, PhD	
	5:10pm - 5:35pm	Parallel Imaging: Practical Considerations - Timothy P.L. Roberts, PhD	
	5:35pm - 6:00pm	High Field MR Advances - William G. Bradley, MD, PhD, FACR	
	6:00pm - 6:15pm	Panel Discussion	

**6:30am - 7:55am** **BREAKFAST** **Room 105/106 Foyer**

**8:00am - 9:30am** **75** **PARALLEL SCIENTIFIC PAPER SESSION**  
**CEU 1.5**

8:00am - 9:30am (1.75 CME)	Session 75a <u>Moderators</u>	SPINE: Trauma, Degenerative and Interventional <i>Andrew L. Wagner, MD; Jeffrey G. Jarvik, MD, MPH</i>	<b>Room 105/106</b>
8:00am - 9:30am	Session 75b <u>Moderators</u>	PEDIATRICS: Miscellaneous <i>Caroline D. Robson, MB, ChB; Alena Horska, PhD</i>	<b>Theatre</b>
8:00am - 9:30am	Session 75c <u>Moderators</u>	ADULT and PEDIATRIC BRAIN: Neoplasms <i>Thomas Kim, MD; Edmond Knopp, MD</i>	<b>Room 107</b>
8:00am - 9:32am	Session 75d <u>Moderators</u>	ADULT BRAIN: Miscellaneous <i>Erin M. Simon, MD; Charles R. Fitz, MD</i>	<b>Room 205</b>

**9:30am - 9:55am** **MORNING BREAK** **Theatre Foyer/Room 105/106 Foyer**

**10:00am - 11:30am** **76** **REVIEW OF PEDIATRIC HEAD, NECK, AND SPINE (ASPNR)** **Theatre**  
**CEU 1.5**

*Moderator: Patrick D. Barnes, MD*

10:00am - 10:45am	Head & Neck Imaging - Caroline D. Robson, MB, ChB
10:45am - 11:30am	Spine Imaging - Erin M. Simon, MD

**10:00am - 11:30am** **77** **INTERVENTIONAL SPINE (ASSR)** **Room 105/106**  
**CEU 1.5**

*Moderators: Bassem A. Georgy, MD; Alyssa T. Watanabe, MD*

10:00am - 10:30am	Vertebral Body Interventions: An Update - Bassem A. Georgy, MD
10:30am - 11:00am	Percutaneous Disc Interventions Kurt P. Schellhas, MD
11:00am - 11:30am	Nerve Injections and Rhizotomies - Blake A. Johnson, MD

**11:30am - 11:45am** **CLOSING REMARKS** **Room 105/106**  
- Patricia A. Hudgins, MD, ASNR President