American Society of SPINE RADIOLOGY

Annual Symposium

February 5 - 8, 2015 • Caesars Palace Las Vegas • Las Vegas, Nevada

20.75 AMA PRA Category 1 Credit(s)™

Specific Sessions of the meeting program will be submitted to the ABR for SAM qualification.
ABOUT THE SYMPOSIUM

The ASSR 2015 Annual Symposium will provide a forum for presentation and discussion of new and important developments in spine radiology. Keynote addresses and topically organized focus sessions will concentrate on various aspects of diagnostic and interventional spine techniques. Nationally and internationally recognized experts will share their experiences through didactic lectures, discussions and case-based reviews. Scientific sessions will address the newest applications and techniques in spine imaging and intervention, while electronic educational exhibits will help to reinforce and review new concepts. In addition, the oral abstract sessions will present new and exciting investigations in spine research. Young investigators can submit their original work for consideration in the Louis A Gilula, M.D. Mentor Award Program, or compete for awards in either the best scientific paper or electronic education presentation categories.

Diagnostic Spine Sessions will highlight the latest in MR and CT imaging advances, controversies in spine imaging including coverage of infectious diseases, oncologic imaging management, unique aspects of pediatric spine, the etiology of pain generators, spinal trauma and spinal cord injury and advanced imaging ranging from diffusion tensor imaging to neurography.

Interventional Spine Sessions will give participants the opportunity to review and master basic and advanced spine interventional skills, covering topics such as novel augmentation procedures, epidural therapeutics, advanced nerve blocks and cryoablation techniques.

Multidisciplinary Case Management Conference panel of experts will present a series of controversial spine augmentation procedures, epidural therapeutics, advanced neurography, of pain generators, spine trauma and spinal cord injury and CT imaging advances, controversies in spine imaging.

Also new for this year is an afternoon combined Multidisciplinary Case Management Panel presentation which will take the place of the traditional concurrent diagnostic and interventional case presentations. This new session will include surgical, pain management and oncologic faculty to discuss the comprehensive assessment and management of complex or controversial spinal diseases. The discussion will undoubtedly be entertaining, practical and informative.

On behalf of the entire Program Committee, I hope you will join us for the 2015 Annual Symposium. We have planned an extraordinary Symposium and look forward to seeing you in Las Vegas. I would like to extend my sincere appreciation for your continued support of the American Society of Spine Radiology Annual Symposium.

I look forward to seeing you in Las Vegas!

Adam E. Flanders, M.D. • ASSR President/Program Chair

SCIENTIFIC SPONSOR

Educational Symposium

INFORMATION

For more information or questions regarding the Symposium, please contact Dian Ginsberg at dginsberg@edusymp.com or 813-806-1064.

ACCREDITATION

This activity has been planned and implemented in accordance with the Essential Areas and policies of the Accreditation Council for Continuing Medical Education through the joint providership of Educational Symposia and the American Society of Spine Radiology. Educational Symposia is accredited by the ACCME to provide continuing medical education for physicians.

EducationalSymposias designates this live educational activity for a maximum of 20.75 AMA PRA Category 1 Credit(s)™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

REGISTRATION INFORMATION

Registration includes all course materials, including a comprehensive electronic course syllabus, continental breakfasts and coffee breaks, Breakfast & Learn and Lunch & Learn Sessions, workshops and all lectures. Family members and friends, ages 12 years and older, who wish to attend social functions which include the Welcome Reception, Continental Breakfasts and the Closing Party may do so by registering for the Symposium. The fee for each guest is $100.00. Company-sponsored, unaccredited workshops require separate registrations. See program for details. Early registration is strongly suggested. There will be a $50.00 late fee added to registrations received after January 9, 2015. Cancellations must be received in writing. A $75.00 processing fee will be applied to all cancellations. Refunds requested in writing prior to January 9, 2015 will be issued for the amount of registration fee paid less the $75.00 processing fee. No refunds will be made on or after that date.

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THE ASSR 2015 ANNUAL SYMPOSIUM is dedicated to the memory of Louis A. Gilula, M.D.

2014 – 2015 PROGRAM COMMITTEE

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Faculty & topics subject to change.
PROGRAM SCHEDULE

Wednesday, February 4, 2015
4:00 – 6:00 PM Registration for Attendees and Guests

Thursday, February 5, 2015
7:00 – 7:55 AM Registration and Continental Breakfast for Registrants
7:55 – 8:00 Welcome and Dedication ................................................................. Adam E. Flanders, M.D.

JOINT SESSION 1 - WHY HAVEN'T WE SOLVED LOW BACK PAIN? • Moderators: Lubdha M. Shah, M.D. & William C. Watters, III, M.D., MS (NASS)

10:00 – 10:30 Refreshment Break for Registrants and Visit Exhibitors

INTERVENTIONAL SESSION 1:
CLINICAL SKILLS FOR THE INTERVENTIONAL SPINE RADIOLOGIST
Moderators: Keith E. Kortman, M.D. & Dan T.D. Nguyen, M.D.

10:30 – 10:45 Surgical Perspective in the Evaluation of Back Pain ..................................................... Thomas Mroz, M.D. (NASS)
10:45 – 11:00 Assessment of Axial and Radicular Pain ........ Dan T.D. Nguyen, M.D.
11:00 – 11:15 Neurology and Physical Exam of the Spine for Spine Radiologists................................. Stanley Golovac, M.D.
11:30 – 11:45 Local Anesthetics and Steroids ................. John M. Mathis, M.D., MSC.
11:45 – 12:00 PM Question and Answer Session .............................. Faculty

DIAGNOSTIC SESSION 1:
WHAT THE DIAGNOSTIC RADIOLOGIST NEEDS TO KNOW ABOUT SPINE INTERVENTION - WHAT WE DO AND WHY WE DO IT!
Moderators: Gregory J. Lawler, M.D. & Todd Miller, M.D.

10:30 – 10:45 Metamorphosis of a Diagnostic Radiologist into an Intervventional Spine Radiologist:
How to Start a Practice ........................................ Amish H. Doshi, M.D.
10:45 – 11:00 Indications and How to Do Steroid Injections .......... Todd Miller, M.D.
11:00 – 11:15 Indications and How to Do Facet Injections .................. Walter S. Bartsynski, M.D.
11:15 – 11:30 Indications and How to Approach Vertebral Augmentation .................. Gregory J. Lawler, M.D.
11:30 – 11:45 Vertebral Augmentation - Tales from the Crypt ..................... Mary E. (Lee) Jensen, M.D.
11:45 – 12:00 PM Question and Answer Session .............................. Faculty

12:00 – 1:00 Lunch and Learn Session or Lunch On Your Own ●

JOINT SESSION 2 (SAM SESSION): CONTROVERSIES • Moderators: John L. Go, M.D. & John D. Barr, M.D.

1:00 – 1:15 Appropriate Use of Imaging/Intervention for Post-Operative Infection ........................................ Lubdha M. Shah, M.D.
1:15 – 1:30 How Much Imaging is Too Much Imaging? ....................... Paul E. Kim, M.D.
1:30 – 1:45 Will Structured Reporting Enhance the Value of Spine Imaging ........................................... Richard H. Wiggins, III, M.D., CIIP, FSIRM
1:45 – 2:00 Value and Deficiencies of the Spine Nomenclature ....................... Alan L. Williams, M.D., FACR, MBA
2:00 – 2:15 Myelography: A Dying Art: Current Utility ....................... Richal Silbergliet, M.D., MBA
2:15 – 2:30 Discography: Is it For Real? Point/Counterpoint .................. John D. Barr, M.D.
2:30 – 2:45 Question and Answer Session ........................................................ Faculty
2:45 – 3:15 End of Session

2:45 – 3:15 Refreshment Break for Registrants
3:30 – 4:30 Interventional Roundtable for Trainees and Wanna-bees ● Drs. Bartsynski, Kortman, Lawler, Miller, Ortiz, Refai, Wong, Zbarski ●
3:30 – 5:30 Workshop I - Topic & Faculty: TBD ●
6:00 – 8:00 Welcome Reception for Registrants and Registered Guests

Friday, February 6, 2015
7:00 – 8:00 AM Continental Breakfast for Registrants and Registered Guests

JOINT SESSION 3 (SAM SESSION): SPINAL TRAUMA AND SPINAL CORD INJURY • Moderators: Eric D. Schwartz, M.D. & Adam E. Flanders, M.D.

8:00 – 8:30 Keynote Address: Goals/Expectations to Restoring a Normal Life to the Spinal Cord Injured Patient - Role of Rehabilitation ........................ Anthony Burns, M.D., M.Sc.
8:30 – 8:45 Clearing the Injured Spine ............................................................. Vahe M. Zohrabian, M.D.
8:45 – 9:00 Special Considerations for the Traumatized Pediatric Spine ............................................. Erin Simon Schwartz, M.D.
9:00 – 9:15 Clearance for Return to Play in High Performance Athletes After Spinal Trauma ......... Gregory W. Petermann, M.D.
9:15 – 9:30 Role of MRI in SCI: Correlation with Neurologic Deficit and Prognosis .................. Falgun H. Chokshi, M.D., M.S., DABR
9:45 – 10:00 Question and Answer Session ........................................... Faculty

10:00 – 10:30 Refreshment Break for Registrants and Visit Exhibitors

INTERVENTIONAL SESSION 2:
ADVANCED INTERVENTIONAL SPINE PROCEDURES
Moderators: Christopher Hancock, M.D. & Allan L. Brook, M.D., FSIR

10:30 – 10:45 Percutaneous Disk Procedures: New Horizons ...................... Christopher Hancock, M.D.
10:45 – 11:00 Advanced VP and KP Techniques ............... Allan L. Brook, M.D., FSIR
11:00 – 11:15 Treatment of Malignant Compression Fractures: Augmentation and Local Ablation ............... Basem A. Georgy, M.D.
11:15 – 11:30 Cyroablation and Radiofrequency Ablation in Spine and Sacrum ........................................... Jonathan (Jay) M. Morris, M.D.
11:45 – 12:00 PM Question and Answer Session ............................................ Faculty

DIAGNOSTIC SESSION 2:
ONCOLOGIC IMAGING
Moderators: Falgun H. Chokshi, M.D., M.S., DABR & Carl E. Johnson, M.D.

10:45 – 11:00 Surgical Stabilization in Spine Oncology ...................... Daniel Refai, M.D.
11:00 – 11:15 Pediatric Spine Tumors You Might Actually See ....................... Nilesh K. Deasi, M.D.
11:15 – 11:30 Interventional Therapeutics for Spinal Tumors .......... Jack W. Jennings, M.D., Ph.D.
11:30 – 11:45 Advanced Imaging of Spinal Tumors: Diffusion Imaging and Beyond ........................................... Purnesh S. Patecha, M.D.
11:45 – 12:00 PM Question and Answer Session ........................................ Faculty
### PROGRAM SCHEDULE

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>9:00</td>
<td>Case Files from the ASNR Presidential Archives</td>
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<td>10:30</td>
<td>Vascular Injury to the Carotid and Vertebral Arteries</td>
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<td>11:30</td>
<td>MR Neurography</td>
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<td>Facet Pain Syndromes</td>
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<td>11:45</td>
<td>Granulomatous Diseases</td>
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<td>Imaging of Post-Operative Complications</td>
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<td>Fixing the Elusive Spinal Leak: Blood Patches versus Open Surgery</td>
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<td>Synovial Cysts...</td>
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<td>12:00</td>
<td>Lunch and Learn Session or Lunch On Your Own</td>
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<tr>
<td>12:00</td>
<td>Discussion</td>
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<td>Imaging of Spinal Stenosis</td>
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<td>9:15</td>
<td>Degenerative Disease in the Pediatric Population</td>
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<td>9:30</td>
<td>Surgical Objectives for Treatment of Spinal Stenosis</td>
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<td>3:00</td>
<td>End of Session</td>
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**SPECIAL • JOINT SESSION 4: MULTIDISCIPLINARY CASE CONFERENCE**

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<tr>
<td>3:30-5:00</td>
<td>Multi-disciplinary Case Conference: Interventionalists, Surgeon, Oncologist</td>
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**Friday, February 6, 2015**

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<tr>
<td>12:00-1:00</td>
<td>Lunch and Learn Session or Lunch On Your Own</td>
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<td>1:00-3:00</td>
<td>Intervventional Non-Mentored Papers</td>
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<tr>
<td>1:00-3:00</td>
<td>Diagnostic Non-Mentored Papers</td>
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<td>3:00-3:30</td>
<td>Refreshment Break for Registrants and Visit Exhibitors</td>
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**Saturday, February 7, 2015**

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<th>Time</th>
<th>Session</th>
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<td>7:00-8:00 AM</td>
<td>Continental Breakfast for Registrants and Registered Guests</td>
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**JOINT SESSION 5: SPINAL STENOSIS AND DEGENERATION • Gregg H. Zoański, M.D. & Walter S. Bartsynski, M.D.**

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<th>Time</th>
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<tr>
<td>8:00-8:30 AM</td>
<td>Keynote Address: Why Does the Failed Back Fail?</td>
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<td>8:30-8:45 AM</td>
<td>Pathogenesis Of Spinal Stenosis</td>
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<td>8:45-9:00 AM</td>
<td>Imaging of Spinal Stenosis</td>
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<tr>
<td>9:00-9:15 AM</td>
<td>Cervical Spondylotic Myelopathy</td>
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<td>9:15-9:30 AM</td>
<td>Degenerative Disease in the Pediatric Population</td>
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<tr>
<td>9:30-9:45 AM</td>
<td>Surgical Objectives for Treatment of Spinal Stenosis</td>
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<tr>
<td>10:00-10:15 AM</td>
<td>Refreshment Break for Registrants and Visit Exhibitors</td>
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<tr>
<td>10:15-10:30 AM</td>
<td>Gold Medal Lecture</td>
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**INTERVENTIONAL SESSION 3: CYSTS AND HOLES**

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<tr>
<td>10:30-10:45 AM</td>
<td>Epidemiology &amp; Diagnosis of CSF Hypotension</td>
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<tr>
<td>10:45-11:00 AM</td>
<td>Fixing the Elusive Spinal Leak: Blood Patches versus Open Surgery</td>
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<tr>
<td>12:00-1:00 PM</td>
<td>Lunch and Learn Session or Lunch On Your Own</td>
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<tr>
<td>1:00-1:45 PM</td>
<td>ASSR Annual Business Meeting (ASSR Members Only)</td>
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**JOINT SESSION 6: LOUIS A. GILULA, M.D. MENTORED SCIENTIFIC PAPER SESSION**

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<tr>
<td>2:00-3:00 PM</td>
<td>Mentor Papers</td>
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<tr>
<td>3:00-3:30 PM</td>
<td>Closing Party for Registrants and Registered Guests</td>
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**Sunday, February 8, 2015**

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<tr>
<td>7:00-8:00 AM</td>
<td>Continental Breakfast for Registrants and Registered Guests</td>
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**JOINT SESSION 7: THE FEDS, CAPITAL HILL AND THE LAW • Moderators: Meng Law, M.D., MBBS, FRACR & Gaurang V. Shah, M.D.**

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<tr>
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<td>Imaging 3.0: Adding Value to Imaging</td>
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<td>Case Files from the ASNR Presidential Archives</td>
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<tr>
<td>9:15-9:30 AM</td>
<td>Legal Ramifications of Your Reports</td>
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<tr>
<td>9:30-9:45 AM</td>
<td>ABR Co-sponsorship of the Pain Management Certificate</td>
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<tr>
<td>9:45-10:00 AM</td>
<td>Question and Answer Session</td>
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<tr>
<td>10:00-10:30 AM</td>
<td>Refreshment Break for Registrants and Visit Exhibitors</td>
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**JOINT SESSION 8: SPINE POTPOURRI • Moderators: Michele H. Johnson, M.D. & Allison M. Grayev, M.D.**

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<tr>
<td>10:30-10:45 AM</td>
<td>Vascular Injury to the Carotid and Vertebral Arteries</td>
</tr>
<tr>
<td>10:45-11:00 AM</td>
<td>MRI Patterns in Spinal Cord Pathologies</td>
</tr>
<tr>
<td>11:00-11:15 AM</td>
<td>Practical Plexus Imaging</td>
</tr>
<tr>
<td>11:15-11:30 AM</td>
<td>MR Neurography</td>
</tr>
<tr>
<td>11:30-11:45 AM</td>
<td>Is Whiplash Amenable to Imaging?</td>
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<tr>
<td>11:45-12:00 PM</td>
<td>Vascular Lesions of the Spine and Spinal Cord: Imaging Features, Algorithms and Treatment</td>
</tr>
<tr>
<td>12:00-12:15 PM</td>
<td>Discussion</td>
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<tr>
<td>12:15-12:30 PM</td>
<td>Closing Remarks</td>
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**SUNDAY, FEBRUARY 8, 2015 (Continued)**

**JOINT SESSION 9: SPINAL STENOSIS AND DEGENERATION**

<table>
<thead>
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<th>Time</th>
<th>Session</th>
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<tr>
<td>11:30</td>
<td>Imaging of Post-Operative Complications</td>
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<tr>
<td>10:45</td>
<td>Imaging of Spinal Stenosis</td>
</tr>
<tr>
<td>11:15</td>
<td>Discitis/Osteomyelitis and Its Mimickers</td>
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<tr>
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**Sunday, February 8, 2015 (Continued)**

**DIAGNOSTIC SESSION 3: INFLAMMATORY/INFECTIOUS DISEASE**

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**SELECT YOUR REGISTRATION STATUS:** Please photocopy this registration form for additional registrants.

<table>
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<tr>
<th>Status</th>
<th>ON / BEFORE 1/9/15</th>
<th>AFTER 1/9/15</th>
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<tr>
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<td>$625</td>
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<tr>
<td>ASNR Member</td>
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<tr>
<td>Resident†</td>
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<tr>
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</tr>
<tr>
<td>Member Invited Faculty/Moderator</td>
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<td>$315</td>
</tr>
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</table>

*To receive an ASSR membership application, contact the ASSR headquarters office at (630) 574-0220, ext. 226 or 234 or visit the ASSR website: www.TheASSR.org.

†Must enclose letter from your Program Director certifying status.

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**GUEST FEE:** Family members and friends, ages 12 years and older, who wish to attend social functions which include the Welcome Reception, Continental Breakfasts and the Closing Party must register.

<table>
<thead>
<tr>
<th>Guest Name(s)</th>
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</tbody>
</table>

Even though you do not need to register anyone under 12 years of age, please let us know how many in this age category will accompany you. #_______

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<table>
<thead>
<tr>
<th>Rate</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>$229</td>
<td>Palace Tower King Rooms (Single/Double)</td>
</tr>
</tbody>
</table>

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2015 Annual Symposium

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