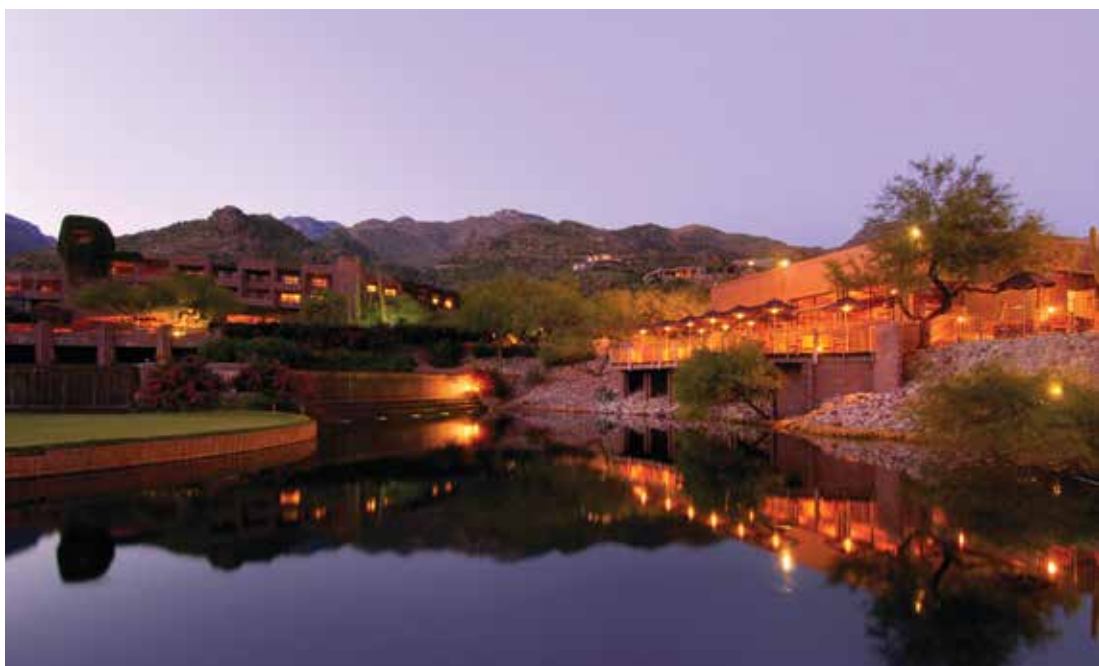




9TH ANNUAL MEETING OF THE

American Society of Functional Neuroradiology



March 18 – 20, 2015

Loews Ventana Canyon • Tucson, AZ

17.25 AMA PRA Category 1 Credit(s)TM

Optional BOLD Functional MRI Hands On Workshop • March 21, 2015

6.5 AMA PRA Category 1 Credit(s)TM • Workshop attendance is limited to first 20 Registrants



from the President and Program Chair

The 9th Annual Meeting of the American Society of Functional Neuroradiology (ASFNR) will be held March 18 - 20, 2015 at the Loews Ventana Canyon Resort in Tucson, Arizona. The serene setting of the Sonoran Desert noted for the famous Saguaro cactus and the award-winning architectural design of the Ventana Resort offer a splendid venue for the Annual Meeting. Each day of the scientific program has a different emphasis, with the first day focused on “bread and butter” clinical implementation of fMRI, fiber tracking, perfusion imaging, and permeability mapping, ending with focus sessions on tumor and stroke imaging. Highlights of day two include Houghton Lecturer, Bruce Rosen, who will provide his vision on the future directions of functional imaging, followed by keynote lectures on the origin of the BOLD signal. Day three will focus on emerging techniques including a new session on machine learning, a form of artificial intelligence where data is used to train classifiers for maximizing testing accuracy. The meeting will close with a lively session on one of the hottest topics in neuroimaging, i.e. concussion. Although officially over, the meeting transitions nicely to Scott Faro MD’s popular “hands-on” fMRI workshop Saturday morning.

I would like to emphasize that there is great content in this meeting for everyone interested in functional neuroimaging including neuroradiologists, neurologists, neurosurgeons, brain mapping scientists, cognitive neuroscientists, physicists, fellows, residents, doctoral and postdoctoral students, engineers and ancillary staff.

Finally, I hope to convince you to take the time to explore the “ventana” or “window” to the soul of the Sonoran desert as the resort is placed in the heart of the Catalina mountains. Hike into the canyon among the magnificent cacti or just stroll a short distance to a breath-taking 80-foot waterfall within minutes of the resort. For golfers there are two Tom Fazio-designed PGA golf courses right on the property. In addition, the resort is replete with amenities including a terrific spa and tennis center, fitness center, and nearby riding trails. There is also an opportunity to stargaze in the dry cool desert air with a professional stargazer. Great restaurants and shopping are nearby with complementary resort shuttle service.

I am anticipating an exceptional scientific, educational, social, and recreational event in an inspiring environment so come join us for the ASFNR 9th Annual Meeting!

Sincerely,
David J. Mikulis, M.D., FRCP(C)
ASFNR President and Program Chair

About The Meeting

The American Society of Functional Neuroradiology is proud to present its 9th Annual Meeting. This 2 ½ day meeting will feature a series of focused sessions with didactic lectures and panel discussions by nationally and internationally recognized experts as well as original research in the form of oral and poster presentations.

A broad range of cutting-edge topics in functional neuroradiology, including BOLD functional brain mapping, diffusion imaging, diffusion tensor imaging, perfusion and permeability imaging will be featured. The scientific program will consist of lectures and panel discussions aimed at updating attendees on the current status of functional and physiologic imaging techniques, current controversies in the field, and promising new techniques. A review of cutting-edge special topics including resting state fMRI, advanced diffusion imaging, stroke imaging, concussion imaging, connectomics, tumor radiomics, the origins of the BOLD signal, MR imaging of oxygen extraction, imaging of neurovascular coupling, emerging functional techniques, and functional data analysis using machine learning methods will also be presented.

On Saturday, March 21, 2015, there will be a “Hands-on Workshop” for BOLD fMRI (10AM – 4PM). The session will include a physics and clinical application review and detailed, hands on, image processing of BOLD fMRI data of language and the sensory motor cortex. Attendance is limited to the first 20 registrants.

Target Audience

This CME activity is intended to educate anyone interested in functional neuroimaging including neuroradiologists, neurologists, neurosurgeons, brain mapping scientists, cognitive neuroscientists, physicists, fellows, residents, doctoral and postdoctoral students, engineers and ancillary staff.

Scientific Sponsor

Educational Symposia

Educational Objectives

Attendees should, at the completion of this meeting, be able to:

- Describe the underlying physical basis of advanced functional and physiological imaging techniques such as BOLD and resting state fMRI, Diffusion-weighted Imaging, Diffusion Tensor Imaging, Dynamic Susceptibility and Dynamic Contrast-enhanced MRI, Arterial Spin Labeling, Susceptibility-weighted Imaging, MR Spectroscopy, PET and MEG Imaging.
- Explain the clinical applications and limitations of advanced functional and physiological imaging techniques.
- Discuss how to effectively integrate functional imaging techniques into clinical practice with awareness of pertinent economic and logistical issues.

No special educational preparation is required for this CME activity.

Accreditation

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

Educational Symposia designates this live activity for a maximum of 17.25 *AMA PRA Category 1 Credit(s)*TM. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Technologists: This program has been submitted to the American Society of Radiologic Technologists. The number of A CE credits will be available approximately 30 days prior to the meeting. Please visit <http://asfnr.edusymp.com> or call 1-800-338-5901 regarding the availability of Category A CE credit.

Registration Information

Payment of the registration fee includes all course materials, including a comprehensive course syllabus, welcome reception, daily continental breakfasts, and coffee breaks. Early registration is strongly suggested. There will be a \$50 surcharge for anyone registering after February 13, 2015.

Cancellations must be received in writing. A \$75 processing fee will be applied to all cancellations. Refunds requested in writing prior to February 13, 2015 will be issued for the amount of registration paid, less the \$75 processing fee. No refunds will be made on or after that date.



Optional BOLD Functional MRI Hands-on Workshop • March 21, 2015

About This Workshop

This workshop will provide a practical step-by-step post-processing of BOLD fMRI studies with SPM8 software and data presentation.

Target Audience

This CME activity is intended to educate neuroradiologists, neuroradiology fellows, physicists, clinical psychologists and MR technologists. The workshop is intended for those with beginner to intermediate level fMRI experience.

Educational Objectives

Attendees should, at the completion of this workshop, be able to perform the following:

- Preprocessing of BOLD fMRI Data
 - Realignment/Coregistration
 - Spatial Normalization
 - Smoothing
- Single Subject Analysis
 - Model Specification
 - Model Estimation
 - Visualization of the BOLD data

No special educational preparation is required for this CME activity.

Accreditation

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

Educational Symposia designates this live activity for a maximum of 6.5 *AMA PRA Category 1 Credit(s)*[™]. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Technologists: This program has been submitted to the American Society of Radiologic Technologists. The number of A CE credits will be available approximately 30 days prior to the meeting. Please visit <http://asfnr.edusymp.com> or call 1-800-338-5901 regarding the availability of Category A CE credit.

Hardware/Software Requirements

Registrants are required to bring to the workshop their own laptop with a minimum 2G of RAM and 10G of hard disk space. The machines should have preloaded SPM8 and MATLAB software prior to the workshop. DICOM BOLD fMRI practice data sets will be available at the workshop. **All registrants will be given instructions on downloading SPM8 and the 15-day free MATLAB license prior to the workshop.**

PROGRAM

WEDNESDAY, March 18, 2015

7:00 - 8:00 AM Registration and Continental Breakfast for Registrants

7:55 - 8:05 WELCOME
David J. Mikulis, M.D.

BOLD fMRI

Moderator: John L. Ulmer, M.D.

8:05 - 8:20 Physics
Feroze B. Mohamed, Ph.D.

8:20 - 8:35 Sensory-Motor Anatomy and Mapping
John L. Ulmer, M.D.

8:35 - 8:50 Language Anatomy and Mapping
Andrew P. Klein, M.D.

8:50 - 9:05 Memory Anatomy and Mapping
Leighton P. Mark, M.D.

9:05 - 9:20 Vision Anatomy and Mapping
Edgar A. DeYoe, Ph.D.

9:20 - 9:35 Question and Answer Session
Faculty

9:35 - 9:50 Coffee Break for Registrants

DIFFUSION

Moderator: David J. Mikulis, M.D.

9:50 - 10:10 Basic Diffusion and DTI Physics
Aaron S. Field, M.D., Ph.D.

10:10 - 10:25 Quantifying Brain Tissue Microstructure with Diffusional Kurtosis Imaging
Jens Jensen, Ph.D.

10:25 - 10:40 Diffusion Spectrum Imaging
Pratik Mukherjee, M.D., Ph.D.

10:40 - 10:55 Clinical Tractography
Aaron S. Field, M.D., Ph.D.

10:55 - 11:10 Question and Answer Session
Faculty

CLINICAL IMPLEMENTATION fMRI AND DTI

Moderator: Kirk M. Welker, M.D.

11:10 - 11:25 Starting a Clinical fMRI Program
Kirk M. Welker, M.D.

11:25 - 11:40 fMRI Practice: Standards and Reimbursement
Scott H. Faro, M.D.

11:40 - 12:00 PM fMRI and DTI: Value, Limitation, Pitfalls
John L. Ulmer, M.D.

WEDNESDAY, March 18, 2015 (continued)

12:00 - 12:20 Speakers Panel
Faculty

12:20 - 1:30 Lunch on Your Own or Lunch & Learn Session: TBD ♦

PERFUSION/PERMEABILITY

Moderator: Daniel P. Barboriak, M.D.

1:30 - 1:50 DSC Perfusion, Permeability, and Leakage Correction
Jerrold L. Boxerman, M.D., Ph.D.

1:50 - 2:05 Standardization of DSC, DCE MRI
Daniel P. Barboriak, M.D.

2:05 - 2:25 ASL: Basics, Strengths, and Limitations
*Jalal B. Ande, M.D., DABR**

2:25 - 2:35 Questions and Answers
Faculty

2:35 - 2:50 Coffee Break for Registrants

TUMOR ASSESSMENT

Moderator: Meng Law, M.D., MBBS, FRACR

2:50 - 3:05 Biomarkers in Brain Tumor Imaging: Definition and Beyond
Mark S. Shiroishi, M.D.

3:05 - 3:20 CBF Assessment
Joseph A. Maldjian, M.D.

3:20 - 3:35 Pseudoprogression/Pseudoresponse
Jerrold L. Boxerman, M.D., Ph.D.

3:35 - 3:50 Tumor Surveillance
Rajan Jain, M.D.

3:50 - 4:05 Where the Rubber Hits the Road: Advanced Imaging in Multicenter Clinical Trials in Brain Tumors
Daniel P. Barboriak, M.D.

4:05 - 4:20 Speakers Panel
Faculty

STROKE IMAGING IN 2015

Moderator: Andrei I. Holodny, M.D.

4:20 - 4:35 Stroke and Functional CT
Max Wintermark, M.D., MAS, MBA

4:35 - 4:50 Is Penumbra Imaging Relevant?
Howard A. Rowley, M.D.

4:50 - 5:05 When do we use MRI and CT?
Ashok Srinivasan, M.D.

5:05 - 5:20 Speakers Panel
Faculty

WEDNESDAY, March 18, 2015 (continued)

5:20 - 5:30 Closing Remarks
David J. Mikulis, M.D.

5:30 End of Session

5:30 - 6:45 Diffusion/Perfusion Study Group Meeting ♦

6:45 - 8:00 Welcome Reception ♦

THURSDAY, March 19, 2015

7:00 - 8:00 AM Continental Breakfast for Registrants

7:30 - 8:00 ASFNR Annual Business Meeting (Members Only) ♦

VICTOR M. HAUGHTON, M.D. HONORARY LECTURE

8:00 - 8:40 Functional Imaging - Where Are We Heading?
Bruce R. Rosen, M.D., Ph.D.

8:40 - 8:45 Questions and Answers
Faculty

KEYNOTE LECTURES

8:45 - 9:15 Origins of the BOLD signal
Richard B. Buxton, Ph.D.

9:15 - 9:45 Neurovascular Coupling
Constantino Iadecola, M.D.

9:45 - 9:55 Questions and Answers
Faculty

9:55 - 10:10 Coffee Break for Registrants

IMAGING NEUROVASCULAR COUPLING

Moderator: David J. Mikulis, M.D.

10:10 - 10:25 Neurovascular Uncoupling: Why should we measure this?
David J. Mikulis, M.D.

10:25 - 10:40 MRI of OEF
Divya S. Bolar, M.D., Ph.D.

10:40 - 10:55 Oxygen 17 MRI
Keith R. Thulborn, M.D., Ph.D.

10:55 - 11:10 Breath-Hold CVR for Neurovascular Uncoupling Assessment
Jay J. Pillai, M.D.

11:10 - 11:25 CVR using ASL
Steve Fung, M.D.

11:25 - 11:40 Solution to NVU in fMRI of Tumors
Andrei I. Holodny, M.D.

11:40 - 11:50 Questions and Answers
Faculty

BOLD Functional MRI Hands-On Workshop

PROGRAM

THURSDAY, March 19, 2015 (continued)

**11:50 - 12:50 PM Lunch on Your Own or
Lunch & Learn Session:
TBD ♦**

**12:50 - 1:35 FROM THE VENDORS
PERSPECTIVE ♦**

1:35 - 1:50 Break

CONNECTIVITY

Moderator: Pratik Mukherjee, M.D., Ph.D.

1:50 - 2:05 Resting State Basics
Haris Sair, M.D.

2:05 - 2:20 PCA/ICA/ Graph Theory
*Christopher T. Whitlow, M.D.,
Ph.D., MHA*

2:20 - 2:35 Resting State Using MEG
Jeffrey Berman, Ph.D.

2:35 - 2:50 Dynamic/Resting State
*Christopher T. Whitlow, M.D.,
Ph.D., MHA*

2:50 - 3:05 Clinical Applications of the
Resting State: Challenges
and Pitfalls?
Haris Sair, M.D.

3:05 - 3:20 Speakers Panel
Faculty

**3:20 - 3:35 Coffee Break for
Registrants**

GENOMICS/RADIOMICS

Moderator: Christopher Filippi, M.D.

3:35 - 3:50 Tumor Radiomics
Rivka R. Colen, M.D.

3:50 - 4:05 Tumor Radiomics:
Update from ASNR
Genomics Study Group
Rivka R. Colen, M.D.

4:05 - 4:15 Questions and Answers
Faculty

4:15 End of Session

4:15 - 5:30 Oral Research
Presentations ♦

5:30 - 6:30 Bold fMRI Study Group
Meeting ♦

FRIDAY, March 20, 2015

**7:30 - 8:00 AM Continental Breakfast
for Registrants**

8:00 - 8:05 Welcome
David J. Mikulis, M.D.

EMERGING TECHNIQUES

Moderator: Joseph A. Maldjian, M.D.

FRIDAY, March 20, 2015 (continued)

8:05 - 8:20 Bioscales
Keith R. Thulborn, M.D., Ph.D.

8:20 - 8:35 T1 Rho
Christopher G. Filippi, M.D.

8:35 - 8:50 Contrast Agents and
Functional Imaging
Marco Essig, M.D., Ph.D., FRCP(C)

8:50 - 9:05 Spinal Cord DTI
Scott H. Faro, M.D.

9:05 - 9:20 Preliminary Report from the
Multicenter fMRI Study
Scott H. Faro, M.D.

9:20 - 9:35 The Blood Brain Barrier in
Alzheimer's Disease
Meng Law, M.D., MBBS, FRACR

9:35 - 9:50 Language fMRI: Dorsal and
Ventral Pathway
Andrew J. Kalnin, M.D.

9:50 - 10:05 Questions and Answers
Faculty

**10:05 - 10:20 Coffee Break for
Registrants**

MACHINE LEARNING

Moderator: Christopher T. Whitlow, M.D., Ph.D., MHA

10:20 - 10:35 What Is Machine Learning?
Paul Dufort, Ph.D.

10:35 - 10:50 Machine Learning Analysis of
Functional Imaging Data
Srikantan S. Nagarajan, Ph.D.

10:50 - 11:00 Questions and Answers
Faculty

CONCUSSION

Moderator: Scott H. Faro, M.D.

11:00 - 11:15 Concussion Overview
*Michael L. Lipton, M.D., Ph.D.,
FACR*

11:15 - 11:30 Advanced MRI of Concussion
Joseph A. Maldjian, M.D.

11:30 - 11:45 MEG of Concussion
Pratik Mukherjee, M.D., Ph.D.

11:45 - 12:00 PM Speaker Panel -
How Close Are We To
Imaging Diagnosis of
Concussion In A
Single Subject?
Faculty

12:00 Closing Remarks
Pratik Mukherjee, M.D., Ph.D.

12:05 MEETING CONCLUDES

♦ Not accredited for AMA PRA Category 1 Credit(s)[™]
Faculty & topics subject to change.

SATURDAY, MARCH 21, 2015

9:00 – 10:00 AM Registration

Essentials of Functional Imaging

10:00 Introduction to BOLD,
Paradigm Design, and SPM
Feroze B. Mohamed, Ph.D.

11:00 Clinical Overview of
Motor and Language
Activation
Scott H. Faro, M.D.

12:00 – 12:15 PM Boxed Lunch

12:15 Practical Exercises on
Language Data Processing
and Review

*Abin Bandyopadhyay, M.D.
Chris Conklin, M.S.E.
Devon Middleton, MS
Feroze B. Mohamed, Ph.D.
Deepika Nandiraju, M.D.*

**2:15 – 2:30 Coffee Break
for Registrants**

2:30 Practical Exercises on
Sensory-Motor Data
Processing

*Abin Bandyopadhyay, M.D.
Chris Conklin, M.S.E.
Devon Middleton, MS
Feroze B. Mohamed, Ph.D.
Deepika Nandiraju, M.D.*

4:30 Review SPM Processing
with Question and Answer
Session

Faculty

5:00 End of Workshop

Faculty & topics subject to change.

INVITED FACULTY

Jalal B. Andre, M.D., DABR(R)

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Medical Director of MRI Core, Houston Methodist
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Srikantan S. Nagarajan, Ph.D.

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San Francisco, CA

BOLD Functional MRI Hands-On Workshop

Jay J. Pillai, M.D.

Director of Functional MRI
Associate Professor
Neuroradiology Division
The Russell H. Morgan Department of Radiology and
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Johns Hopkins Univ. School of Medicine & The Johns
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Bruce R. Rosen, M.D., Ph.D.

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WORKSHOP FACULTY

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Vice Chair of Radiology
Director of Neuroradiology, Clinical MRI, Functional
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Associate Director of the Functional Brain Imaging Center
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Philadelphia, PA

Chris Conklin, M.S.E.

Ph.D. Graduate Student of Electrical Engineering
Temple University
Philadelphia, PA

TEMPLE FUNCTIONAL BRAIN IMAGING CENTER – BOLD LAB PERSONNEL

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Imaging Institute
Cleveland Clinic Foundation
Cleveland, OH

Devon Middleton, MS

Research Associate
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Philadelphia, PA

Deepika Nandiraju, M.D.

Research Associate
Department of Radiology
Temple University
Philadelphia, PA



Make Reservations

Online at:

<http://www.loewshotels.com/en/Ventana-Canyon-Resort/GroupPages/ASFNRConference032415>

or call 800-234-5117

Inspired by the Sonoran Desert outside Tucson, Arizona, Loews Ventana Canyon opened in 1984 as the world's first environmentally conceived resort as designated by Architectural Digest, the resort spans 93-acres of pristine desert. The property showcases more than 3,500 saguaro cacti, an 80-foot waterfall, 36 holes of golf and low-rise granite buildings that almost disappear against the Santa Catalina Mountain backdrop. Not one saguaro or any riparian habitat were impacted by the construction of the resort.

Nature remains an important part of the resort today. There's a half-mile paved trail, "Window Walk," behind the pool on the mountain side of the hotel that has a butterfly and tortoise exhibit and teaches guests about the Sonoran Desert. The trail also passes the base of the 80-foot waterfall, which flows into a koi pond behind the lobby. Another way to experience the desert in your free time is to explore the mile-long fitness trail which has 18 exercise stations. For serious hikers, there's a 2.5 mile trail into the eponymous canyon along a boulder strewn trail that rises 1,000 feet above the resort. Two championship golf courses, two swimming pools, full service spa and salon, and fitness center round out the on-site activities.

A total of 398 guest rooms and suites offer magnificent views of the Catalina mountains or golf course and city lights. Stretch out on a king-sized bed, relax in an oversized soaking tub, or indulge in Mother Nature's nightly star show from the luxury of your private patio or balcony.

Our award-winning chefs capture the unique flavors of the Southwest by using locally grown products and farm fresh ingredients in the Canyon Café, Bills Grill, Cascade, and Flying V restaurants.

Special Discounted Group Rooms Rate

\$199

Single and Double Rooms

Plus \$10 Resort Fee –
Per Room/Per Night

Resort Fee Includes:

- Premium Guest Room Internet
- Self-Parking
- Lake Side Fitness Center Access
- Yoga and Fitness Classes
- Unlimited Local Phone Calls
- Shuttle to Sabino Canyon
- One-Hour Tennis Court Rental

Remember to identify yourself as a registrant of the *9th Annual Meeting* of the ASFNR in order to qualify for the special discounted group room rate.

Make your reservations as soon as possible as room block may sell out prior to the cut-off date of Monday, February 16, 2015. After this date, reservations will be accepted at the discretion of the hotel, on a space and rate available basis.

RESERVATIONS MUST BE MADE BEFORE FEBRUARY 16, 2015. Room rate is subject to applicable Pima County Room Tax, currently 12.05%. Subject to availability, group rate may be available three (3) days before and three (3) days after the Annual Meeting. Check in is 4 p.m.; Check out is 12 noon. Hotel requires a credit card at time of reservation. **CANCELLATION:** All "no show" reservations will be billed to the individual's credit card. The cancellation of guaranteed reservations must be received twenty-four (24) hours prior to arrival in order to avoid a charge equal to one night's room and applicable taxes.

Join ASFNR

American Society of Functional Neuroradiology Membership Information/Membership Application

Membership Categories:

Member: radiologist, neuroradiologist, physicist, or scientist who practices or has a special interest in functional neuroradiology

Associate: physician, scientist, or radiologic technologist (M.D., D.O., Ph.D., R.T.) with a special interest in functional neuroradiology but who does not fulfill the criteria for *Member* status

Student: medical, undergraduate, or graduate student, resident or fellow. Postdoctoral fellows will be considered, if they are within four years of their doctoral degree

Membership Benefits:

- Reduced Registration Fee to attend the *ASFNR Annual Meeting**
- Reduced Registration Fee to attend the *American Society of Neuroradiology (ASNR) Annual Meeting**
- Membership Certificate (*Member and Associate* only)
- Subscription to the *American Journal of Neuroradiology* at the ASNR member rate (*Member and Associate* only)- Optional
- Opportunity to join ASFNR Study Groups
- Opportunity to participate in the Scientific and Business Meetings, and activities of the Society
- Serve on standing committees, propose candidates for nomination, vote and hold elected office (*Members* only)

Applying For Membership:

If you are a current member of ASNR or:

American Society of Head and Neck Radiology (ASHNR)

American Society of Pediatric Neuroradiology (ASPNR)

American Society of Spine Radiology (ASSR)

Eastern Neuroradiological Society (ENRS)

Western Neuroradiological Society (WNRS)

1. Complete #1, 2, 3, and 8 of the membership application
2. Include prorated dues

If you are not a current member of the above societies, and are applying for *Member* or *Associate* status, you must include the following:

1. Completed membership application
2. One sponsor letter. Sponsor must currently hold ASFNR *Member* status, or the equivalent from the ASNR, ASHNR, ASPNR, ASSR, ENRS, or WNRS, and be familiar with the reputation and qualifications of the applicant and applicant's involvement and/or interest in functional neuroradiology.
3. Current curriculum vitae
4. Copy of Radiology Board or Subspecialty Certification (formerly CAQ) certificate
5. Prorated dues

If you are not a current member of the above societies, and are applying for *Student* status, you must include the following:

1. Completed membership application
2. One sponsor letter. Sponsor must currently hold ASFNR *Member* status, or the equivalent from the ASNR, ASHNR, ASPNR, ASSR, ENRS, or WNRS, and be familiar with the applicant's reputation, qualifications and involvement and/or interest in functional neuroradiology.
3. Letter from your Department Chairman verifying current status and expected date of graduation (*Student* applicants only)
4. Current curriculum vitae
5. Prorated dues

Prorated Membership Dues

A S F N R (prorated dues include application fee)		1 st Qtr.	2 nd Qtr.	3 rd Qtr.	4 th Qtr. **
Membership Category	Annual Membership Dues	Jan-March	Apr-June	July-Sept	Oct-Dec
<i>Member</i>	\$125 + \$25 application fee	\$150	\$112	\$88	\$150
<i>Associate</i>	\$50 + \$25 application fee	\$75	\$63	\$50	\$75
<i>Student</i>	\$25	\$25	\$19	\$13	\$25

Each Study Group's dues are \$10 (not prorated) – add \$10 for each group membership and indicate your selected group(s) with an "X". Your Study Group membership(s) will begin upon your acceptance into Society membership.

_____ BOLD fMRI _____ Diffusion/Perfusion Imaging

**When dues are paid in the 4th Quarter, membership is valid through the end of the following calendar year.

***Deadline to Submit Membership Application:** If you wish to register for the *ASFNR 9th Annual Meeting* at the discounted member rate, your completed application (and any required documentation and dues) must be received **30 days prior to the Meeting**. You will receive an email confirming receipt of your application, after which you may register as an ASFNR member. If you wish to register for only the *ASNR 53rd Annual Meeting/The Foundation of the ASNR Symposium 2015* at the discounted ASFNR member rate, your completed ASFNR membership application must be received **no later than 30 days prior to the start of ASNR 53rd Annual Meeting/The Foundation of the ASNR Symposium 2015. For more information on that meeting, log onto www.asnr.org.**

Membership Application Begins on Reverse Side ►

(Please type or print legibly)

Membership category applied for: *Member* *Associate* *Student*

3. Indicate with an "X" all the societies of which you are a member: ____ ASNR ____ ASHNR ____ ASPNR
 ____ ASSR ____ ENRS ____ WNRS

If you **ARE NOT a member** of any of the societies listed above, complete the entire application, and provide required documentation and prorated membership dues.

- Sponsor's Name: _____
Institution: _____
Phone: () _____ E-mail _____

- 8. I agree to abide by the ASFNR Constitution and any revisions thereof:**

Applicant's Signature	Date
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Please note: **U.S.-based applicants** may pay prorated membership dues by check (made payable to ASFNR), or credit card. **Non U.S.-based applicants** must pay prorated membership dues by credit card. Payment must accompany application.

Billing address, if different from #2 above: Check one: *Home* *Institution* *Business Office*

Name of Institution/Affiliation: _____
 Address: _____
 City: _____ State/Province: _____ Zip/Postal Code: _____
 Country (if other than U.S.): _____

Indicate amount of prorated membership dues: \$

Credit Card: ☐ American Express ☐ MasterCard ☐ Visa
 Card Number: _____ Expiration Date: _____
 Name as it appears on the card: _____
 Signature: _____

Meeting Registration Form:



9th Annual Meeting of the
American Society of

Functional Neuroradiology

March 18 – 20, 2015 • Loews Ventana Canyon • Tucson, AZ

Optional BOLD Functional MRI Hands On Workshop

March 21, 2015

ASFNR15

For your convenience, REGISTER ONLINE at www.asfnr.org

REGISTRATION FEES	MEETING REGISTRATION ON / BEFORE 2/13/15	MEETING REGISTRATION AFTER 2/13/15	WORKSHOP REGISTRATION ON / BEFORE 12/31/14*	WORKSHOP REGISTRATION AFTER 12/31/14*
☐ ASFNR Member	☐ \$395	☐ \$445	☐ + \$225	☐ + \$250
☐ Non Member	☐ \$495	☐ \$545	☐ + \$225	☐ + \$250
☐ Technologist, Retired Physician, Fellow*, Full-Time Military*, Resident*	☐ \$195	☐ \$245	☐ + \$225	☐ + \$250

*Optional BOLD Functional MRI Hands-on Workshop (Attendance limited to first 20 registrants.)

I am: (please check one) ☐ ASFNR Member ☐ Non Member ☐ Technologist ☐ Retired Physician ☐ Fellow* ☐ Military* ☐ Resident*

*Must enclose letter from Director verifying status.

Name	Degree ☐ M.D. ☐ D.O. ☐ Ph.D. ☐ P.A. ☐ R.T. ☐ Other
Company / Institution	Specialty
Address	City / State / Zip / Country
Phone	Email
Card Number / Card Type: ☐ Master Card ☐ Visa ☐ American Express ☐ Discover	Exp. Date Security Code
Billing Address	City / State / Zip / Country
Cardholder Signature	

REGISTER NOW: CALL (800) 338-5901 or Fax 800-344-0668 ON or BEFORE FEBRUARY 13, 2015
ASFNR, c/o Educational Symposia • 5620 West Sligh Avenue • Tampa, Florida 33634-4490

CANCELLATIONS: Request for refund of registration fees, less a \$75.00 administrative fee, will be made to those providing written notification of cancellation by February 13, 2015. After that date, there will be no refunds given for cancellations. Please email notice of cancellation to: lsessa@edusymp.com or fax to 800-344-0668.

4 Easy Ways To Register

We Accept



INTERNET

ASFNR.edusymp.com

MAIL

Check payable to ASFNR:
ASFNR
c/o Educational Symposia
5620 West Sligh Avenue
Tampa, Florida
33634-4490

FAX

(800) 344-0668
(U.S. & Canada)
(813) 806-1001

PHONE

(800) 338-5901
(U.S. & Canada)
(813) 806-1000

Disclaimer: Educational Symposia (ESI) and the ASFNR as planners and presenters of this meeting, and Professional Travel as the official travel agency for these meetings, claim no liability for the acts of any suppliers or the safety of any attendees while in transit to, from, or during this event or any optional activities. The total amount of liability, if any, for the meeting organizers is limited to a refund of the registration fee, and Professional Travel's responsibility is limited to that of an agent.



Special Note for the Disabled: Educational Symposia (ESI) and the ASFNR wish to ensure that no individual with a disability is excluded, denied services, segregated or otherwise treated differently from other individuals because of the absence of auxiliary aids and services. If you need any auxiliary aids or services identified in the Americans with Disabilities Act, please contact our office at (800) 338-5901 or (813) 806-1000.

**American Society of
Functional Neuroradiology**

c/o Educational Symposia
5620 West Sligh Avenue
Tampa, FL 33634-4490

**For More Information
Contact ASFNR at:**

Educational Symposia

American Society of Functional Neuroradiology
c/o Educational Symposia
5620 W. Sligh Ave. • Tampa, FL 33634

(813) 806-1000 Direct
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9TH ANNUAL MEETING OF THE
**American Society of
Functional Neuroradiology**



March 18 – 20, 2015 • Loews Ventana Canyon • Tucson, AZ

17.25 AMA PRA Category 1 Credit(s)TM

Optional BOLD Functional MRI Hands On Workshop

March 21, 2015

6.5 AMA PRA Category 1 Credit(s)TM

Workshop attendance is limited to first 20 Registrants

