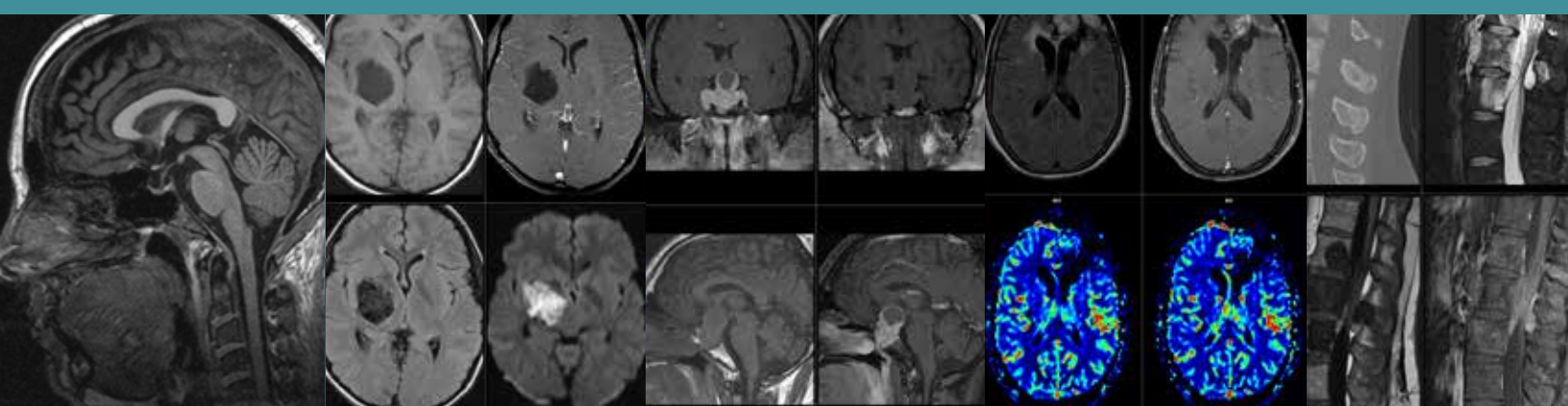




**FOCUS SESSION
TOPICS**

Head & Neck

Spine

New Technologies

Brain

Errors and Perception

Headaches



**2015 Gold Medal
Presented to
R. Thomas Bergeron, MD**



**ASNR President's Address by
ASNR 2015-2016 President
Laurie A. Loevner, MD**



**Annual Business
Meeting of Members**



**12.65 AMA PRA
Category 1 Credits™**

**WESTERN NEURORADIOLOGICAL SOCIETY
IN JOINT SPONSORSHIP WITH
THE INTERNATIONAL INSTITUTE FOR
CONTINUING MEDICAL EDUCATION, INC.**

PRESENTS THE

WNRS 47TH Annual Meeting



**September 18-20, 2015
THE BROADMOOR
Colorado Springs, Colorado**

Letter From the President

Dear Friends and Colleagues:

The WNRS 47th Annual Meeting will be held in Colorado Springs, September 18-20, 2015 at the spectacular BROADMOOR Resort. President-elect Bill Erly has put together a spectacular scientific program, with updates ranging from imaging of the spine, head and neck, headache syndromes, and neurodegenerative brain disorders, to new technologies and errors and perception in diagnostic techniques. Scientific abstracts on a wide variety of topics will also be presented. A Call for Abstracts Form is enclosed with this mailing.

Also included is the ASNR President's address by 2015-2016 President Laurie Loevner from the University of Pennsylvania. In addition, we will be awarding the second WNRS Gold Medal to R. Thomas Bergeron, a founding member of our Society and past president (1971), and an expert in head and neck imaging.

The BROADMOOR Resort, aside from the newly redesigned and luxurious facilities, offers a spectacular golf facility on the property that will be the site of our annual golf outing. The Resort also offers spectacular views of the Rocky Mountains and the lake that fronts the resort. Guided hikes, horseback riding, fishing, puttering around on a paddle boat, and even bowling in their new state-of-the-art facility, are some of the many activities offered by the BROADMOOR.

As always, I look forward to seeing old friends, and meeting new members of the society.



Arthur B. Dublin, MD
President, WNRS

WNRS 2014-2015 EXECUTIVE COMMITTEE

PRESIDENT

Arthur B. Dublin, MD, MBA

Univ. of California, Davis Medical Center
Sacramento, CA

PRESIDENT-ELECT/PROGRAM CHAIR

William K. Erly, MD

University of Arizona
Tucson, AZ

SECRETARY

Steven G. Imbesi, MD

University of California,
San Diego Medical Center
San Diego, CA

TREASURER

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University of Utah
Salt Lake City, UT

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Leland S. Hu, MD

Mayo Clinic
Scottsdale, AZ

FIRST PAST PRESIDENT

John L. Go, MD

LAC/USC Medical Center
Los Angeles, CA

SECOND PAST PRESIDENT

John P. Karis, MD

The Barrow Neurological Institute
Phoenix, AZ

WNRS PAST PRESIDENTS

1968-70	Gabriel H. Wilson, MD*	1993	Michael Brant-Zawadzki, MD, FACR
1971	R. Thomas Bergeron, MD	1994	William D. Robertson, MD
1972	Henry F. W. Pribram, MD	1995	Joseph R. Thompson, MD
1972	Fred K. Sondheimer, MD	1996	Charles E. Seibert, MD
1973	Robert L. Scanlan, MD*	1997	Wallace W. Peck, MD
1974	James A. Pollock, MD*	1998	Livia G. Solti-Bohman, MD, FACR
1975	Calvin L. Rumbaugh, MD	1999	John R. Hesselink, MD, FACR
1976	Leon G. Kaseff, MD	2000	Stephen T. Hecht, MD
1977	T. Hans Newton, MD*	2001	Marvin D. Nelson, Jr., MD, MBA, FACR
1978	Hervey D. Segall, MD	2002	Joseph E. Heiserman, MD, PhD
1979	Richard A. Kramer, MD	2003	Diane R. Newton, MD
1980	John R. Bentson, MD	2004	Gary M. Nesbit, MD
1981-82	Anton N. Hasso, MD	2005	William D. Keyes, MD
1983	David Norman, MD	2006	Brian W. Chong, MD, FRCPC
1984	William H. Marshall, MD	2007	Robert J. Seivick, MD, FRCPC
1985	John Howieson, MD	2008	Wade H.M. Wong, DO, FACR
1986	Barton Lane, MD	2009	Walter L. Olsen, MD
1987	John C. Stears, MD*	2010	Christopher F. Dowd, MD
1988	Barry D. Pressman, MD	2011	Richard H. Wiggins, III, MD, CIIP
1989	Dieter R. Enzmann, MD	2012	Keith E. Kortman, MD
1990	Robert W. Jahnke, MD*	2013	John P. Karis, MD
1991	William W. M. Lo, MD	2014	John L. Go, MD
1992	Joachim F. Seeger, MD		

*Deceased

PROGRAM SCHEDULE

Thursday, September 17, 2015

3:00-8:00 pm Registration Opens

Friday, September 18, 2015

7:00-1:00 pm Registration
7:00-7:50 am Continental Breakfast
7:50-8:00 am Welcome Remarks. Arthur B. Dublin, MD, MBA
8:00-9:30 am Focus Session: Head and Neck Edward P. Quigley III, MD, Moderator
Orbit Pathology Bronwyn E. Hamilton, MD
Lymph Nodes. Richard H. Wiggins, III, MD, CIIP, FSIIM
Temporal Bone Pathology Rihan Kahn, MD
Head and Neck Neoplasm, SCC Joseph M. Hoxworth, MD

9:30-10:00 am Refreshment Break and Visit Technical Exhibits
10:00-11:30 am Focus Session: Headache Joseph M. Hoxworth, MD, Moderator
Imaging Migraine: Developing an MRI Biomarker Todd Schwedt, MD
Structural and Functional Imaging in Concussion: "Now You See It, Now You Don't"
. Catherine D. Chong, PhD
Headache Kent D. Nelson, MD

11:30-12:30 pm Scientific Papers Session I
6:00-7:00 pm **Opening Reception**

Saturday, September 19, 2015

7:00-12:00 pm Registration
7:00-7:30 am Annual Business Meeting-Breakfast (Open to all physician attendees and exhibitors)
7:30-7:50 am Annual Business Meeting-Business portion (WNRS Members Only)
7:50-8:00 am Welcome Remarks. Arthur B. Dublin, MD, MBA
8:00-8:30 am ASNR President's Address Laurie A. Loevner, MD
8:30-9:00 am EBV Related Tumors of the Head and Neck. Laurie A. Loevner, MD
9:00-10:00 am Focus Session: New Technology Jennifer Becker, MD, Moderator
Presurgical Planning of Medical Device Implantation: Adding Science To The Art
. Brian W. Chong, MD, FRCPC
What's New in Nuclear Imaging, PET, DAT, Alzheimer's Imaging Ryan Avery, MD

10:00-10:20 am Refreshment Break and Visit Technical Exhibits
10:20-10:30 am Gold Medal Presentation
10:30-11:30 am Focus Session: Brain Jayapalli Rajiv Bapuraj, MD, PDCC, Moderator
Metabolic and Degenerative Diseases of the Brain and Spinal Cord Richard E. Latchaw, MD
Advanced Perfusion Imaging. Kambiz Nael, MD

11:30-12:30 pm Scientific Papers Session II. **Jennifer Becker, MD, Moderator**
12:30 pm Annual Golf Tournament - Broadmoor Golf Club (separate registration required)
6:00-10:30 pm Closing Reception and Banquet

Sunday, September 20, 2015

7:00-1:00 pm Registration
7:00-7:50 am Continental Breakfast
7:50-8:00 am Welcome Remarks. Arthur B. Dublin, MD, MBA
8:00-9:30 am Focus Session: Errors and Perception Arthur B. Dublin, MD, MBA, Moderator
Cognitive Errors Ashok Srinivasan, MBBS
Blind Spots (Perception Errors) Mohannad Ibrahim, MD
Social Media and Marketing Your Practice James Y. Chen, MD

9:30-10:00 am Refreshment Break and Visit Technical Exhibits
10:00-11:30 am Focus Session: Spine. John L. Go, MD, Moderator
MR Neuography: The Brachial Plexus Jennifer Becker, MD
Flex/Ex MRI John L. Go, MD
Spine Imaging: Are We Making A Difference? Keith E. Kortman, MD

11:30-12:30 pm Scientific Papers Session III **William K. Erly, MD, Moderator**
12:30 pm **Closing Remarks/Meeting Concludes**

INVITED FACULTY

Ryan Avery, MD

University of Arizona Medical Center
Department of Radiology
Tucson, AZ

Jennifer Becker, MD

Department of Radiology
University of Arizona
Tucson, AZ

James Y. Chen, MD

San Diego VA/UCSD Medical Center
Department of Radiology
San Diego, CA

Brian W. Chong, MD, FRCPC

Mayo Clinic
Department of Radiology
Phoenix, AZ

Catherine D. Chong, PhD

Mayo Clinic
Department of Neurology
Phoenix, AZ

John L. Go, MD

LAC/USC Medical Center
Neuroradiology Division
Los Angeles, CA

Bronwyn E. Hamilton, MD

Oregon Health and Sciences University
Neuroradiology Department
Portland, OR

Joseph M. Hoxworth, MD

Mayo Clinic
Department of Radiology
Phoenix, AZ

Mohannad Ibrahim, MD

University of Michigan Health System
Department of Radiology
Ann Arbor, MI

Rihan Khan, MD

University of Arizona Medical Center
Radiology Department
Tucson, AZ

Keith E. Kortman, MD

San Diego Imaging
San Diego, CA

Richard E. Latchaw, MD

UC Davis Medical Center
Department of Radiology
Sacramento, CA

Laurie A. Loevner, MD

University of Pennsylvania
Department of Radiology
Philadelphia, PA

Kambiz Nael, MD

University of Arizona Medical Center
Medical Imaging/Neuroradiology Section
Tucson, AZ

Kent D. Nelson, MD

Mayo Clinic
Department of Radiology
Phoenix, AZ

Ashok Srinivasan, MD

University of Michigan Health System
Department of Radiology
Ann Arbor, MI

Todd Schwedt, MD

Mayo Clinic
Department of Neurology
Phoenix, AZ

Richard H. Wiggins III, MD, CIIP, FSIIM

University of Utah
Department of Radiology
Salt Lake City, UT

COURSE INFORMATION

Target Audience:

The 47th Annual Meeting of the Western Neuroradiological Society is geared for the neuroradiologist and radiologist in academic and private practice, physicians in a neurologically-related specialty, physicians in training or post-graduate training in a radiology-related specialty, as well as physicians interested in brain, head and neck, and spine-related imaging and interventional techniques.

Course Description:

The WNRS Annual Meeting is designed to introduce clinically relevant advances in Neuroradiology and provide in-depth review of topics within Neuroradiology. The meeting will feature Focus Sessions in Head and Neck, Headache, Spine Imaging, Brain Imaging, as well as New Technology and Errors and Perception.

Accreditation Statement:

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 sponsorship of the International Institute for Continuing Medical Education, Inc. and The Western Neuroradiological Society.

Designation Statement:

The International Institute for Continuing Medical Education, Inc. designates this live activity for a maximum for **12.65 AMA PRA Category 1 Credits™**. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Course Objectives:

Upon completion of this course the following goals and objectives will have been met:

- Understand the pathology of the head and neck, including squamous cell carcinoma, lymph nodes orbit and temporal bone.
- Understand the physiology and imaging of headache
- Become acquainted with imaging of the brain including concussion injury, perfusion imaging, metabolic and degenerative diseases and new techniques in nuclear medicine.
- Learn about errors and sources of errors in radiology practice.
- Understand current concepts in flexion/extension spine imaging.



ACCOMMODATIONS

47th Annual Meeting WESTERN NEURORADIOLOGICAL SOCIETY September 17-20, 2015



THE BROADMOOR
1 Lake Avenue
Colorado Springs, CO 80906

Phone: 855-634-7711
Reservation Deadline - August 18, 2015

Group Rate - \$325.00

The Group Rate is based on single/double occupancy. Additional per person charge is \$30.00 plus tax, per night. Individual reservations must be made on or before **August 18, 2015** to receive the Group Rate. All reservations must be guaranteed by a valid major credit card. Any guaranteed reservation not cancelled by 5:00 pm (local time), seven (7) days prior to arrival will be subject to room and tax cancellation fee for the first and last night of the reservation. The deadline for accepting reservations into this room block is **August 18, 2015**. Reservations requests received after 5:00 PM local time at the Hotel on the Cut-off date will be accepted on a space and rate availability basis. Check-in time is 3:00 pm, check-out time is 11:00 am (local time). All guests arriving before 3:00 pm (local time) will be accommodated as rooms become available. **Valet Parking:** There is a charge for valet parking. The current per vehicle, overnight valet rate is \$45.00 plus tax. (As of January 2014)

Situated in Colorado Springs, THE BROADMOOR is in the historical district and area attractions include Cheyenne Mountain Zoo, World Arena, and United States Olympic Complex. Additional regional attractions include Garden of the Gods and Pikes Peak.

THE BROADMOOR has a full-service spa, 3 spa tubs, outdoor and indoor tennis courts. Complimentary wireless and wired high-speed Internet access is available in public areas and a computer station is located on-site. This 5-star resort features business amenities including a business center and meeting rooms. The resort offers 6 restaurants along with 5 coffee shops/café's and a bar/lounge. The staff can provide concierge services, tour/ticket assistance, and wedding services. Additional amenities at this Colonial resort include an indoor pool, a seasonal outdoor pool, and spa services. Guest parking is available for a surcharge. This is a smoke-free property.

Rooms open to balconies or patios. The 771 air-conditioned guestrooms include laptop-compatible safes and minibars. Beds have pillowtop mattresses and premium bedding. Complimentary wireless high-speed Internet access is provided. Rooms are equipped with flat-screen TVs with premium cable channels and pay movies. All accommodations provide desks and phones. Bathrooms offer separate bathtubs and showers, bathrobes, designer toiletries, and hair dryers. Additional amenities include coffee/tea makers and irons/ironing boards. In addition, a turndown service is offered nightly, housekeeping is available daily, and amenities available on request include hypo-allergenic bedding.

Things to Do in Colorado Springs



The city sits at the foot of one of America's most famous landmarks, Pikes Peak, upon whose summit Katharine Lee Bates was inspired to write "America the Beautiful." Tourists still converge on the peak, where they can drive, ride the Pikes Peak Cog Railway or even hike to its 14,115-foot summit.

The city thrives on culture, with its Colorado Springs Philharmonic and Pikes Peak Center for performing arts. But there's much more to attract and hold visitors' attention. There are more than 50 area attractions, ranging from the Pioneers Museum to the Colorado Springs Fine Arts Center and the American Numismatic Association Money Museum, nirvana for coin collectors.

One of the nation's three U.S. Olympic Training Centers is located here, and visitors can watch world-class athletes in action. Another top attraction is the U.S. Air Force Academy, an elite military training academy just north of the city. You can visit several areas of the academy, including the Cadet Chapel and the Honor Court.

One of the nation's most fabulous city parks, Garden of the Gods, is nestled in the foothills of Pikes Peak. The stunning red rock formations draw tourists with cameras in tow to capture a perfect shot of the rocks framing the snow-capped peak.



REGISTRATION

A letter of verification from the Department Chair must accompany the registration of anyone wishing to qualify for the Resident/Fellow rate.

Attendance will be confirmed on the basis of registration fee. Registrations will not be processed without payment. We cannot guarantee meeting materials for registrations received after August 18, 2015.

REFUNDS:

Cancellations received in writing by August 18, 2015 will receive a refund minus a \$75 administrative fee. There will be no refunds for cancellations received after August 18, 2015.

REGISTRATION:

Registration will begin on September 17, 2015 at 3:00 p.m. in the foyer.

PLEASE NOTE: You will receive registration confirmation via regular mail from the International Institute of Continuing Medical Education, Inc. approximately two weeks after your registration is received. We are unable to confirm your registration by fax or email.

TRAVEL

RENTAL CARS: HERTZ CV# 01VA0151

Hertz is the official rental car supplier. Special low rates have been negotiated to reduce your travel costs. Call the Hertz Convention Control Center at (800) 654-2240 and refer to the CV# above.

POLICIES

A SPECIAL NOTE TO THE DISABLED

The International Institute for Continuing Medical Education, Inc. wishes to ensure that no individual with a disability is excluded, denied services, segregated or otherwise treated differently than other individuals because of the absence of auxiliary aids or services. If you need any auxiliary aids or services identified in the Americans with Disabilities Act, please indicate so on your registration form.

DISCLAIMER

The International Institute for Continuing Medical Education, Inc., and WNRS as co-sponsors of this meeting, claim no responsibility for the acts of any supplier to this meeting nor for the safety of any attendee while in transit to or from the meeting. The total amount of liability during the meeting will be limited to a refund of the registration fee. Purchase non-refundable airline tickets at your own risk.

DISCLOSURE STATEMENT

It is the policy of the International Institute for Continuing Medical Education, Inc. to comply with the Accreditation Council for Continuing Medical Education (ACCME) Standards for commercial support of CME activities. All faculty participants in IICME programs are required to disclose to the program audience any real or apparent conflict(s) of interest related to this meeting or its content. Faculty disclosure forms are included in the course syllabus and are available at the registration desk for participating review. In addition, faculty disclosures will be made at the beginning of each lecture



REGISTRATION FORM

47th Annual Meeting WESTERN NEURORADIOLOGICAL SOCIETY

Make check or money order payable to WNRS 2015. Foreign payments must be made by a draft on a United States bank. Register online at: **www.iicme.net** or

Mail/Fax to: The International Institute for Continuing Medical Education, Inc.

P.O. Box 350, Springville, AL 35146 • FAX (205) 467-0195

_____ WNRS Member	\$350
_____ Non-Member	\$700
_____ Resident/Fellow	\$120
_____ WNRS Member Spouse/Guest	\$150
_____ Non-Member Spouse/Guest	\$210
_____ Resident/Fellow Spouse/Guest	\$110
_____ Past President's Dinner.	\$75
_____ Golf Tournament	\$175
(Please indicate handicap and index) _____	
_____ Late Fee (After August 18, 2015)	\$100
TOTAL	\$_____

One registrant per form, please photocopy for others. Please print.

First Name _____ MI _____ Last Name _____

Please circle your title: MD DO PhD MPH RN RT(R) RT(R)(M)

Address _____

City _____ State _____ Zip _____

Home Phone (____) _____ Office Phone (____) _____

Fax Number (____) _____ Email _____

Name of Registered Guest _____

Additional Registered Guest _____

CREDIT CARD: ☐ Visa ☐ MasterCard ☐ Discover ☐ American Express

Please note: A 3.25% fee will be added if using American Express

Account/Card No. _____ Expiration Date _____

Cardholder's Billing Address _____

Signature _____ Amount \$ _____

☐ Please check if you have any special needs/disabilities and a WNRS representative will contact you.

Special Requirements: If you are physically challenged and have any special needs, please list them here.



Social Event Registration

Name of Registered Guest _____

Additional Registered Guest _____

Friday Opening Reception #: _____ will attend Saturday Banquet #: _____ will attend

Will you be attending the Saturday Annual Business Meeting Breakfast? ____ Yes ____ No

Please indicate any special dietary needs: ☐ Kosher ☐ Vegetarian ☐ Other _____



OFFICE REC'D _____

CONF: _____

USE ONLY AMT: \$ _____

CHK: _____



WNRS 48th Annual Meeting Omni Barton Creek • Austin, Texas October 14-16, 2016

