38th Annual Western Regional Meeting
Western Regional Society of Nuclear Medicine
October 24-27, 2013

Pasadena Convention Center
300 E. Green Street, Pasadena, CA 91101
Telephone: (800) 307-7977

DISTINGUISHED SCIENTIST AWARD
MAGNUS DAHLBOM, PHD
UNIVERSITY OF CALIFORNIA LOS ANGELES, LOS ANGELES, CA

DISTINGUISHED SERVICE AWARD
BRENDA J. KING, CNMT, FSNMMITS
PRESIDENT SNMMITS 2012-2013
CONSULTANT, BJ KING & ASSOCIATES, LLC
CARSON, CA

TAPLIN AWARD
BARRY SIEGEL, MD
MALLINCKRODT INSTITUTE OF RADIOLOGY
ST. LOUIS, MO

MISSION STATEMENT: The purpose of this organization is to provide an annual scientific and continuing education program, and other programs of education, jointly acceptable to the members.

GENERAL LEARNING OBJECTIVES: The 38th Annual Western Regional Meeting is sponsored by the Pacific Southwest Physicians and Technologists Chapters, Pacific Northwest Chapter and Northern California Chapter of the Society of Nuclear Medicine. Learning objectives are listed after each lecture. 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 SNMMI and the Western Regional SNM. SNMMI is accredited by the ACCME to provide continuing medical education for physicians.

The WRSNM has submitted the educational activity application for approval by the SNMMI for AMA PRA Category 1 credit(s). Physicians should only claim credit commensurate with the extent of their participation in the activity. We will apply for 12 Self-Assessment Credits from the American Board of Nuclear Medicine. As of this printing, we have not yet received approval.

VOICE credit is pending approval from the SNMMITS. VOICE-approved credit is recognized by most licensure states and by the NMTCB and ARRT (as Category A credit). This program has been approved for 25.5 SCOPES.

OVERALL LEARNING OBJECTIVES:
1. Solve challenging nuclear cardiology presentations and prepare for current cardiac imaging developments.
2. Summarize the current application of nuclear imaging of inflammatory and infectious disease.
3. Evaluate cancer therapy results with PET/CT imaging.
4. Apply molecular brain imaging methods for the evaluation of dementia and movement disorders.
5. Understand the Affordable Care Act.
6. Examine therapeutic nuclear medicine applications in thyroid diseases, bone pain alleviation, and neuroendocrine tumors.
A Program for you!
On behalf of the Western Regional Society of Nuclear Medicine, the Scientific Program Committee would like to invite you to attend the 38th Annual Western Regional Meeting. If you have a disability which requires special accommodations, please call the WRSNM (425-893-8410) and advise us of your needs at least two weeks in advance of the program. We have an outstanding program focused on the needs and concerns of nuclear medicine imaging. Talks by local and national experts describe changes in practice, regulations, radiation safety, and technology updates.

Registration Hours
Thursday – Friday: 7:00 a.m. – 4:00p.m.
Saturday: 7:15a.m. – 4:00p.m.
Sunday: 7:15a.m. – 10:00a.m.

Exhibit Hours
Thursday: 4:45pm-6:30pm
Friday: 7:00am – 4:00pm
Saturday: 7:00am – 1:00pm

The members of the Scientific Program Committee are:
Patrick Colletti, MD Scientific Program Chairman
Hossein Jadvar, MD, PhD General Program Chairman
Lalitha Ramanna MD, Edwin Glass MD, Alan Waxman MD, Susan Gavel CNMT, Brenda King CNMT, David Lewis MD, Paul Kinahan PhD, Helen Nadel MD, Hubert Vesselle MD PhD, Cameron Foster MD and David Shelton MD.

About the Western Regional Society of Nuclear Medicine
The Western Regional Society of Nuclear Medicine, Inc. has over 2,700 active members representing professionals from California, Nevada, Arizona, Washington, Oregon, Idaho, Montana, Wyoming, Colorado, Utah, Alaska, Hawaii, and Alberta, Saskatchewan, Manitoba and British Columbia, Canada. The Chapter hosts a number of grassroots activities throughout the year, including:
• Continuing education and research activities, including an Annual Meeting that rotates between the Pacific Southwest Technologist Chapter, Pacific Southwest Chapter, Northern California Chapter and the Pacific Northwest Chapter.
• A professional networking forum for members
• A mechanism for encouraging and enhancing professional leadership
• Monitoring and addressing nuclear medicine professional issues at the local level

Members are also eligible to serve on Chapter committees including CME, Nominations, and Executive Committees. Participation is most welcome. If you are interested please contact wrsocietynucmed@gmail.com.

Hotel Information
We will not reserve a block of rooms for the meeting this year because of the number of hotels in the vicinity of the Pasadena Convention Center. Below are a few of the larger hotels but there are many more – please take the time to search if these do not meet your needs. The Hilton, Sheraton and Westin are the closest to the Pasadena Convention Center. Be sure to make reservations sooner than later – Pasadena is a very busy location!

Hilton Pasadena - pasadena.hilton.com
Sheraton Pasadena - adjacent to the Pasadena Convention on Center. 626-449-4000 - sheraton.com/pasadena
Old Pasadena Courtyard by Marriott 626-403-7600 - marriott.com/laxot
The Westin Pasadena 626-792-2727 westin.com
The Langham Huntington, Pasadena 626-568-3900 - langhamhotels.com

CALL FOR ABSTRACTS

The Western Regional Society of Nuclear Medicine will present a $500 award to the author of the most outstanding oral abstract in each of three categories: 1) an M.D. or scientist, 2) a technologist, and 3) an individual in-training in the field of nuclear medicine/molecular imaging (technologist, intern, resident, medical student, etc.). Other abstracts of high scientific merit that would present well in a visual format will be accepted for poster presentation. All abstracts must be received by August 15, 2013.

Contact Sue Hogeboom by telephone 425-893-8410, or e-mail: wrsocietynucmed@gmail.com for additional information.
2013 WESTERN REGIONAL SNM PROGRAM

THURSDAY, OCTOBER 24
7:00 Registration Opens/Continental Breakfast
7:45 Welcome and Announcements

SESSION I: CARDIOLOGY (I 2.0)
8:00-8:30 “SPECT vs PET for Assessment of Relative and Absolute Myocardial Perfusion.” Daniel Berman, MD
Learning Objectives:
1. Examine comparative strengths of SPECT and PET for myocardial perfusion assessment.
2. Evaluate the value of adding absolute flow measurements to standard myocardial perfusion imaging.

8:30-9:00 “Highlights of the 2013 ASNC Annual Scientific Sessions.” Gregory S Thomas, MD, MPH
Learning Objectives:
1. Assess new techniques in myocardial perfusion imaging presented at the ASNC meeting.
2. Assess the use of hybrid imaging combining pharmacologic and exercise stress.

9:00-9:30 “Myocardial viability: Alive after STICH?”
Daniel Berman, MD
Learning Objective:
1. Review the evidence regarding the value of imaging for assessment of myocardial viability.

9:30 – 10:00 “Novel Radionuclide Imaging Agents for Heart Failure: I-123 MIBG.” Gregory S Thomas, MD, MPH
Learning Objectives:
1. Summarize how to perform I-123 MIBG cardiac imaging.
2. Recognize studies demonstrating the risk stratification available with I-123 MIBG cardiac imaging in patients with depressed left ventricular function.

10:00-10-30 Break (EXHIBIT HALL CLOSED)

SESSION II: INFECTION AND INFLAMATION (R 1.0, I .5)
10:30 – 11:15 “Radiopharmaceuticals used in the Evaluation of Infection.” Alan Waxman, MD (SAM)
Learning Objectives:
1. Examine the use of radiopharmaceuticals for infection and be able to select the most appropriate pharmaceutical for a specific disease process.
2. Identify the optimal use and possible pitfalls for individual radiopharmaceuticals.
3. Evaluate the potential error rates for multiple radiopharmaceuticals as applied to specific disease processes.

11:15 – 12:00 “Imaging of Inflammatory Diseases using PET/CT and Nuclear Medicine.” Andy Quon, MD (SAM)
Learning Objectives:
1. Identify the physiology of available radiotracers that are used for imaging inflammatory disease.
2. Outline Nuclear Medicine and PET/CT imaging exams are available for imaging and evaluating inflammatory disease.

12:00-1:15 Lunch (On your own)

SESSION III: ONCOLOGY – CT and PET/CT (I 3.0)
1:15 – 2:15 “Tumor Response to Therapy: Roles of CT and PET/CT.” Fatemeh Behnia, MD and Hubert Vesselle, PhD, MD (SAM)
Learning Objectives:
1. Assessing tumor response to therapy will be reviewed. Examples of specific cancers will be used for illustration.
2. Evaluate tumor response to therapy: RECIST and PERCIST.

2:15 – 3-15 “Oncology Case Reviews.” Hubert Vesselle, PhD, MD and Fatemeh Behnia, MD (SAM)
Learning Objectives:
1. Illustrate the interpretation of challenging oncology cases using Nuclear Medicine.
2. Demonstrate the use of correlative imaging and relevant clinical data to improve scan interpretation.

3:15 – 4:15 “What’s new in Oncologic MRI with an Emphasis on Diffusion Imaging.” Lorenzo Mannelli, MD, PhD. (SAM)
Learning Objectives:
1. Recall the imaging techniques of functional MRI and diffusion imaging.
2. Describe predictors of early tumor response to therapy using functional MRI.

4:15-6:00 ICEBREAKER RECEPTION IN EXHIBIT HALL

FRIDAY, OCTOBER 25
7:00 Registration/Continental Breakfast in Exhibit Hall

8:00 – 8:15 OPENING PLENARY SESSION AND AWARDS

8:00-8:15 PRESENTATION OF DISTINGUISHED SCIENTIST AWARD
Recipient: Magnus Dahlbom, PhD
Presenter: Patrick Colletti, MD
8:15 – 8:30 MICKEY WILLIAMS DISTINGUISHED SERVICE AWARD
Recipient: Brenda J. King, CNMT, President SNMMITS 2012-2013
Presenter: Marie Hairston and Alan Waxman, MD

NORMAN D. POE AWARDS:
8:30 – 8:50  Technologist Award Winner:
8:50 – 9:10  In-training Winner:
9:10 – 9:30  MD/Scientist Winner:

9:30 – 10:30 “From Single Organ PET Imaging to Multi-Modality Whole Body Imaging.”
Magnus Dahlbom, PhD (I 1.0)
Learning Objectives:
1. Examine the challenges of quantitative whole body PET imaging
2. Review the technical challenges of multi-modality PET imaging

10:30 – 11:00 Coffee Break in the Exhibit Hall

SESSION IV: REIMBURSEMENT (NI 1.5)
11:00 – 11:45 “2013 Nuclear Medicine Coding, Policy & Reimbursement.” Denise Merlino, CNMT, MBA
Learning Objectives:
1. Assess latest Medicare information on payments for radiopharmaceuticals, drugs and biological.
2. Examine step by step new 2013 CPT® codes for thyroid scans, parathyroid scans and Beta Amyloid.
3. Evaluate recent SNM consensus opinions addressing some of the most common areas of confusion, such as coding for planar and SPECT imaging of parathyroids.
4. Review guidance and tips to help you avoid common mistakes, such as unbundling codes and billing for the incorrect number of radiopharmaceutical units.

11:45 – 12:30 “Preparing Nuclear Medicine for ICD-10, and other Medicare Policies.” Denise Merlino, CNMT
Learning Objectives:
1. Examine the basics of ICD 10, including development of a plan to prepare for implementation.
2. Evaluate important Medicare Future policies that will affect nuclear medicine services.

12:30 – 1:45 Lunch (On your own)

SESSION V: NEUROLOGY (R 1.25, I 1.0)
1:45 – 2:30 “Striatal Imaging Agents.” Edwin Glass, MD (SAM)
Learning Objectives:
1. Utilize striatal imaging with ioflupane to improve diagnostic accuracy and management in patients with suspected Parkinsonian syndromes.
2. Examine the molecular basis of the mechanism of action of ioflupane.
3. List the common classes of drugs that interfere with the striatal uptake and imaging of ioflupane.

2:30-3:15 “Building a Practice in Molecular Imaging of the Brain.” Alan Waxman, MD (SAM)
Learning Objectives:
1. Examine the radiopharmaceutical used for molecular imaging of the brain.
2. Review mechanisms for detecting metabolic brain dysfunction using FDG-PET imaging.
3. Examine molecular imaging of the brain in evaluation of Parkinson’s Disease vs Essential Tremor.
4. Evaluate the rationales for using an amyloid detecting radiopharmaceuticals in patients with dementia.

3:15-4:00 “Doing Ioflupane Imaging” Michelle Wanner, CNMT. (SAM)
Learning Objectives:
1. Demonstrate proper technique for prep, dosing and positioning ioflupane imaging patients, as well as image processing considerations.
2. Review control substances ordering, storing, and disposal requirements

4:00-4:30 Break in Exhibit Hall

4:30 – 5:30 “CT CASES Head and Neck” Part I John Go, MD (I 1.0)
5:30 – 6:30 “MR CASES Head and Neck” Part II John Go, MD (I 1.0)
Learning Objectives:
1. Recognize normal anatomic variants.
2. Identify important pathologic findings.

SATURDAY, OCTOBER 26
7:15 Registration/Continental Breakfast In Exhibit Hall

SESSION VI: Therapy (T 1.5)
8:00 – 8:45 “I-131 Hyperthyroidism Treatment with Radioiodine.” Patrick Colletti, MD (SAM)
Learning Objectives:
1. Predict outcomes associated with radioiodine treatment of hyperthyroid patients.
2. Match radioiodine dose to specific hyperthyroid patient conditions.

8:45 – 9:30 “Thyroid carcinoma; Review and Controversies.” Lalitha Ramanna MD (SAM)
Learning Objectives:
1. Review management of Thyroid Carcinoma with emphasis of Nuclear Medicine Role.
2. Examine the controversies of Thyroid Carcinoma management.
3. Analyze the American Thyroid Association guidelines for Thyroid Carcinoma.
9:30 – 10:15 Coffee Break in Exhibit Hall

SESSION VII: TECHNICAL ISSUES IN NUCLEAR MEDICINE
(NI  .75, R  .75)
10:15 – 11:00 “Drug Interactions: Adjunctive Medications & Radiopharmaceuticals.” Brenda J King, CNMT, FSNNMITS (R)
Learning Objectives:
1. Review the chemistry of some basic radiopharmaceuticals.
2. Examine the role of adjunctive medications in imaging.
3. Discuss how adjunctive medication effect outcomes on imaging studies.

11:00 – 11:45 “Advocacy- Your Profession Depends On It.” Lynne Roy, CNMT (NI)
Learning Objectives:
1. Review the current sociopolitical climate of nuclear medicine.
2. Explain the technologist’s role in advocacy for their profession.
3. Describe current challenges in advocacy as it applies to the NMTs scope of practice.

11:45 – 12:45 Lunch (on your own)

12:45 – 2:30 TAPLIN AWARD: “Impact of PET on the Management of Patients with Cancer: What We Have Learned from NOPR.” Barry Siegel, MD (NI  1.0)
Learning Objectives:
1. Review the history of PET reimbursement.
2. Examine the key accomplishments of the NOPR.
3. Discuss limitations of observational registries as a means to generate evidence that a technology leads to improved patient outcomes.

SESSION VIII: NUCLEAR MEDICINE CONTROVERSIES
(NI  1.5)
1:45 – 2:30 “Patient Protection and Affordable Care Act-What to expect!” Sharom Bonyadlou, MD (SAM)
Learning Objectives:
1. Identify Accountable Care Organization
2. Examine the threat or opportunity for nuclear medicine physicians

2:30 – 3:15 “Nuclear Medicine Careers.” Patrick Colletti, MD (SAM)
Learning Objectives:
1. Describe the differences between “Jobs” and “Careers”
2. List the 5 components of a career.

3:15-3:30 Break (in the meeting room)

3:30-4:30 “Cases for Connoisseurs – JEOPARDY.” (Cameron Foster, MD (I 1.0)
Learning Objectives:
1. Critique (via direct audience participation) common and rare disease processes which are readily identifiable via PET and SPECT imaging.
2. Distinguish the importance of quality control and its effect on interpretation of scintigraphic images.

4:30– 5:30 “CT CASES” BRAIN Part III.
John Go, MD (I 1.0)

5:30 – 6:30 “MR CASES” BRAIN Part IV.
John Go, MD (I 1.0)
Learning Objectives:
1. Recognize normal anatomic variants.
2. Identify important pathologic findings.

SESSION IX: NEW RADIOPHARMACEUTICALS
(I  .75, R .75)
8:00 – 8:45 “Choline PET Imaging in Cancer.” Hossein Jadvar, MD, PhD (SAM)
Learning Objectives:
1) Learn the biological mechanism of radiolabeled choline uptake in cancer
2) Review the current experience with choline PET imaging in a variety of cancers

8:45 – 9:30 “Hypoxia Imaging.” Erik Mittra, MD   (SAM)
Learning Objectives:
1) Examine the current and novel radiopharmaceuticals available for imaging hypoxia.
2) Evaluate the role of hypoxia imaging in diagnosis and therapy of malignancy.

9:30 – 10:00 Break

SESSION X: THERAPY WITH UNSEALED RADIOISOTOPES
2014: LOOKING FORWARD (I  .75, T  1.5)
10:00 – 10:45 “Molecular Imaging of Neuroendocrine Tumors.” Johannes Czernin, MD (SAM)
Learning Objectives:
1. Examine the role of Aminoacid transport and somatostatin receptor imaging for managing patients with neuroendocrine tumors.
2) Familiarize the audience with the value of somatostatin receptor imaging for predicting responses to radiopeptide therapy.
3) Update the audience on the regulatory and reimbursement status of these imaging probes.

10:45 – 11:30 “Peptide Receptor Radiotherapy (PRRT) and Other New Therapies for Neuroendocrine Tumors.” Edward Wolin, MD   (SAM)
Learning Objectives:
1 Examine the role of PRRT with in treating metastatic carcinoid and other neuroendocrine tumors.
2) Recognize the benefits and risks of PRRT

11:30 – 12:15 "Alpha Particle Therapeutics: The Case for Ra-223 Dichloride." Hossein Jadvar, MD, PhD (SAM)
Learning Objectives:

1) Examine the underlying mechanism of alpha particle therapy
2) Review the therapeutic utility of Ra-223 dichloride

12:15 ADJOURN

FACULTY

Fatemah Behnia, MD
University of Washington
Seattle, WA

Daniel Berman, MD
Cedars Sinai Medical Center
Los Angeles, CA

Sharom Bonyadlou, MD
University of Southern California
Los Angeles, CA

Patrick Colletti, MD
University of Southern California
Los Angeles, CA

Johannes Czernin, MD
University of California Los Angeles
Los Angeles, CA

Magnus Dahlbom, PhD
University of California Los Angeles
Los Angeles, CA

Cameron Foster, MD
University of California Davis
Sacramento, CA

Edwin Glass, MD
Veterans Administration Hospital
Los Angeles, CA

John Go, MD
LAC & USC Medical Center
Los Angeles, CA

Hossein Jadvar, MD, PhD
University of Southern California
Los Angeles, CA

Brenda King, CNMT,
BJ King & Associates, LLC
Carson, CA

Fatemah Behnia, MD
University of Washington
Seattle, WA

Daniel Berman, MD
Cedars Sinai Medical Center
Los Angeles, CA

Sharom Bonyadlou, MD
University of Southern California
Los Angeles, CA

Patrick Colletti, MD
University of Southern California
Los Angeles, CA

Johannes Czernin, MD
University of California Los Angeles
Los Angeles, CA

Magnus Dahlbom, PhD
University of California Los Angeles
Los Angeles, CA

Cameron Foster, MD
University of California Davis
Sacramento, CA

Edwin Glass, MD
Veterans Administration Hospital
Los Angeles, CA

John Go, MD
LAC & USC Medical Center
Los Angeles, CA

Hossein Jadvar, MD, PhD
University of Southern California
Los Angeles, CA

Brenda King, CNMT,
BJ King & Associates, LLC
Carson, CA

Lorenzo Manelli, MD, PhD
University of Washington
Seattle, WA

Denise Merlino, CNMT, FSNMMIT
Merlino Healthcare Consulting Corp
Magnolia, MA

Erik Mittra, MD, PhD
Stanford University
Stanford, CA

Andrew Quon, MD
Stanford Medical Center
Stanford, CA

Lalitha Ramanna, MD
Little Company of Mary Hospital
Los Angeles, CA

Lynne Roy, CNMT
Cedars Sinai Medical Center
Los Angeles, CA

Barry Siegel, MD
Mallinckrodt Institute
St. Louis, MO

Greg Thomas, MD
Memorial Care Health System
Long Beach, CA

Hubert Vesselle, MD, PhD
University of Washington
Seattle, WA

Michelle Wanner, CNMT
University of Washington
Seattle, WA

Alan Waxman, MD
Cedars Sinai Medical Center
Los Angeles, CA

Edward Wolin, MD
Cedars Sinai Medical Center
Los Angeles, CA
MEETING REGISTRATION FORM
38TH ANNUAL WESTERN REGIONAL MEETING
OCTOBER 24-OCTOBER 27, 2013

(Circle appropriate fee) POSTMARKED:  

By 10/5  After 10/5

Registration Available On Site – Full Price

SNM MEMBER: (Must include # *)

Physician/Scientist $ 400 $ 450
Technologist 240 290
Resident/Intern 240 290

NONMEMBER:

Physician/Scientist $ 550 $ 600
Technologist 390 440
Resident/Intern 390 440

Technologist Weekend (Saturday and Sunday 12.25 CEU’s). Onsite registration available.

Member $ 175
Non-Member $ 225

Technologist Student (INSTRUCTOR LETTER REQUIRED) $ 100 by 10/5 $ 120 AFTER 9/14

Spouse/Guest $100 MUST BE REGISTERED TO ATTEND FUNCTIONS (includes continental breakfasts, coffee breaks and Ice Breaker Reception. If your spouse only wants to attend the Ice Breaker Reception the fee is $50.) SPOUSES/GUEST MAY NOT ATTEND CE SESSIONS NOR RECEIVE CE CREDITS.

(Spouse/Guest name): ____________________________ $ __________

CANCELLATION POLICY: WRITTEN CANCELLATION PRIOR TO OCTOBER 10 WILL BE REFUNDED LESS $50 ADMINISTRATIVE FEE; NO REFUNDS AFTER OCTOBER 10.

Name (Please type or print clearly!) Certification (MD, PhD, CNMT) *SNM Membership #

Facility/Department

Address (if using credit card, please use the billing address for the card)

City State/Zip Phone

E-mail address: (NEEDED TO RECEIVE CME/VOICE CEU’S)

Make check payable and mail this entire page to:
WESTERN REGIONAL SNM, PO BOX 2693, KIRKLAND, WA 98083-2693
Tel: (425) 893-8410 Fax: (425) 822-7902; e-mail: wrsocietynucmed@gmail.com
<table>
<thead>
<tr>
<th>CARD HOLDER NAME (PRINT)</th>
<th>SIGNATURE</th>
</tr>
</thead>
<tbody>
<tr>
<td>CARD NUMBER</td>
<td>EXP DATE</td>
</tr>
<tr>
<td></td>
<td>SECURITY CODE</td>
</tr>
</tbody>
</table>

WRSNM  
PO BOX 2693  
KIRKLAND, WA 98083  

38TH ANNUAL WESTERN REGIONAL MEETING  
October 24-27, 2013  
Pasadena, CA