

Kanal's MR Medical Director and MR Safety Officer Training Course

This is THE course that started it all, specifically designed to provide the education necessary to comfortably undertake the responsibilities of being an MR Medical Director/Physician or MR Safety Officer.

Please see page 4,5,6 for course locations



Offers up to 20 hours of CME/CE/MPCEC Credit

PREVIOUS ATTENDEE COMMENTS:

From Prior MR Medical Director/MR Safety Officer Training Courses

"Without a doubt, the best conference I have been to in my 35 years in the field of diagnostic imaging"

"Blows one's mind!"

"Mind blowing! I am totally amazed at how much knowledge Dr. Kanal has about MRI. I wish I could clone him for my site!"

"Amazing even the second time around!"

"Manny operates at a different level compared to most humans."

"Most "neurostimulation" I ever got from a CME!"

"Never stayed awake for an entire conference before!"

"If you have any chance at all of attending... find a way to make it happen. Worth EVERY dollar and minute!!"

"I have never been to a better presentation"

"This was my first time attending Kanal's lectures. I had heard how great he was... They were telling the truth! He's Awesome!!!"

"I could listen to him talk about how paint dries!"

Presented By: Medical Imaging CME Consultants & Northwest Imaging Forums, Inc.

Featured Speaker

Emanuel Kanal, MD, FACR, FISMRRM, MRMD, AANG

**Director, Magnetic Resonance
Professor of Radiology and Neuroradiology
University of Pittsburgh Medical Center**

Dr. Kanal has been involved in researching and teaching the world about magnetic resonance (MR) safety issues for more than 30 years, since the introduction of MRI as a clinical diagnostic tool. Having chaired the first magnetic resonance safety committee ever created, he also chaired numerous other MR safety committees and has been continually involved in and/or leading MR safety initiatives ever since. These include, among others, having chaired the MR Safety Committee for the American College of Radiology from its inception in 2001 until the summer of 2012, being awarded fellowship in the American College of Radiology as well as the International Society of Magnetic Resonance in Medicine, and being named a Special Government Employee to the Food and Drug Administration on MR safety issues for both the Division of Medical Imaging and Hematology Products/Drug Safety group (of the Office of Surveillance and Epidemiology) regarding magnetic resonance contrast agents as well as the FDA Center for Devices and Radiological Health regarding all matters relating to magnetic resonance safety.

Dr. Kanal has served as a consultant for MR safety issues with innumerable industry and pharmacy representatives, from MR system manufacturers to implant manufacturers to MR pharmaceutical firms to manufacturers of devices designed to be used in and around MR suites. He has been involved in an advisory/consultant role and/or as an expert witness in hundreds of legal cases including those involving/alleging radiofrequency thermal issues or burns from MR imaging examinations, projectile effect events/injuries related to the interactions between the magnetic field of the MR scanner and metallic objects in the MR environment, those alleging auditory injury/tinnitus, and cases involving nephrogenic systemic fibrosis and/or other gadolinium based contrast agent related adverse events, among others.

Dr. Kanal is the lead author of the American College of Radiology's Guidance Document for Safe MR Practices in all four of its published versions and updates (2002, 2004, 2007, and most recently, the 2013 update). As an educator, Dr. Kanal has taught more people about MR safety issues than any other physician in the world today, and has provided several hundred visiting professorships and invited societal lectures and conferences on this topic over the past three decades.

Accreditation

This CME 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 the Institute for Medical Studies (IMS) and Medical Imaging CME Consultants. The Institute for Medical Studies is accredited by the ACCME to provide continuing medical education for physicians. The Institute for Medical Studies designates this live activity for a maximum of 20 *AMA PRA Category 1 Credits*[™]. Physicians should claim only the credit commensurate with the extent of their participation in the activity. Nurses may claim credit for activities approved for AMA PRA Category 1 Credits[™] in most states, for up to 50% of the nursing requirement for recertification. This activity is designated for up to 20.0 *AMA PRA Category 1 Credits*[™]

This MRI program has been submitted for approval of 20 hours of category A CE technologist credit as designated by The Section for Magnetic Resonance Technologists (SMRT) RCEEM. This activity may be available in multiple formats or from different sponsors. ARRT regulations state that an individual may not repeat a live activity for credit if it was reported in the same or any subsequent biennium. To receive the maximum amount of credit hours, you must attend all the sessions. Verification of attendance policies will be in place for each lecture.

This course has been submitted for approval of up to 20 MPCEC hours (Medical Physics Continuing Education Credit) by the Commission on Medical Physics Education Programs.



Educational Objectives and Course Descriptions

20 Hour MR Medical Director / MR Safety Officer

The American College of Radiology Guidance Document for Safe MR Practices has solidly established itself as the standard of care for how one should safely practice in the MR environment. In addition to near universal acceptance throughout the radiologic community, it has been repeatedly established in innumerable legal actions as the standard against which our actions in this regard are judged. The ACR's Guidance Document for Safe MR Practices calls for each MR site to name an MR Medical Director and/or MR Safety Officer, who would serve as the ultimate authority and resource for all questions and decisions related to MR safety. In this regard, there is a significant shortage of individuals in the world today who have sufficient background and knowledge in the subject matter to feel comfortable being named as the MR Medical Directors or MR Safety Officers for their MR imaging centers and sites. This course is specifically targeted to support those whose job it is - or will be - to fulfill these requirements of MR Medical Director or MR Safety Officer. For those considering becoming MR Safety Experts, this course is not intended to teach or review the quantification algorithms required of this title/position. It does, however, provide an exceedingly comprehensive introduction to and overview of all matters pertaining to MR safety, while simultaneously highlighting that which a reasonably trained MRMD and MRSO should be expected to know - and not know.

This Course is Conceptually Divided into Three Unique Parts

1. Teaching and reviewing the basic principles underlying the potential areas of safety concern involved in the MR imaging process and magnetic resonance environment.
 - a. Defining the roles and responsibilities of the MR Medical Director, the MR Safety Officer, and the MR Safety Expert and how they interact with those of the referring physician, radiologist, and MR technologist.
 - b. Reviewing the anticipated new Joint Commission requirements for MR Safety, and how to ensure site compliance.
2. Defining thought process algorithms for assessing whether a patient/device/implant/foreign object can safely undergo MR imaging; reviewing the risk benefit assessment process and establishing protocols and guidelines as to how to formalize the risk benefit ratio assessment for each patient.
3. Medicolegal aspects of MR safety: Learning from the mistakes of others. In this section, numerous real legal cases in which MR safety-related medical malpractice was alleged will be reviewed and analyzed. The objective will always be to learn how to decrease the likelihood of similar issues arising with your patients in your own MR practice.

Topics to be Covered Include, Among Others:

- Static Magnetic Fields
- RF Magnetic Fields
- Gradient Magnetic Fields
- Safety of Gadolinium-Based Contrast Agents
- Cryogen Safety Considerations
- Implant Safety; Clinical Application and Decision Making
- Pregnancy and MRI
- Legal Considerations: Overview, in Depth Case Histories and Review
- ACR Guidance Document
- Implant Safety: Decision Tree Diagram and Utilization
- Review of Submitted Questions
- Post Test and Certification (optional)

*"Shocking that there was so much that I did not know after 21 years in MRI"
Prior MRMD/SO Course Attendee*



20 CE/CME Credit Hours of MR Medical

All lectures will be given by Dr. [Name]

Day 1 (8.0 Hours)

Schedule times and contents are subject to change

Monday

- 6:30** Registration Desk Opens - Coffee, Tea & Pastries
- 7:20** Opening Announcements - Matt Wilson
- 7:30** Introduction, MRMD, MRSO, MRSE
- 8:30** Static Magnetic Fields Part I
- 9:30** Coffee Break
- 10:00** Static Magnetic Fields Part II
- 11:00** Static Magnetic Fields Part III
- 12:00** Lunch on Your Own
- 1:15** Static Magnetic Fields Part IV
- 2:15** RF Magnetic Fields Part I
- 3:15** Coffee Break
- 3:45** RF Magnetic Fields Part II
- 4:45** RF Magnetic Fields Part III
- 5:45** End of Session

Day 2 (8.0 Hours)

Schedule times and contents are subject to change

Tuesday

- 6:30** Registration Desk Opens - Coffee, Tea & Pastries
- 7:20** Opening Announcements - Matt Wilson
- 7:30** Gradient Magnetic Fields
- 8:30** Safety of Gadolinium-Based Contrast Agents Part I
- 9:30** Coffee Break
- 10:00** Safety of Gadolinium-Based Contrast Agents Part II
- 11:00** Safety of Gadolinium-Based Contrast Agents Part III
- 12:00** Lunch on Your Own
- 1:15** Cryogen Safety Considerations
- 2:15** Implant Safety: Clinical Application and Decision Making Part I
- 3:15** Coffee Break
- 3:45** Implant Safety: Decision Tree Diagram and Utilization
- 4:45** Implant Safety: Clinical Application and Decision Making Part II
- 5:45** Dinner on your own
- 7:00** Poolside Chat™ - Emanuel Kanal, MD

(Faculty, topics & format subject to change)

Presentations will be given in the traditional classroom lecture format using slides. Each presenter will allow time to field questions from the audience. The hand-out will provide "take away" self-review material. Permission for the use of copyrighted materials will be obtained if needed.

Day 3 (4.0 Hours)

Schedule times and contents are subject to change

Wednesday

- 6:30** Registration Desk Opens - Coffee, Tea & Pastries
- 7:20** Opening Announcements - Matt Wilson
- 7:30** Review of Submitted Questions
- 8:30** ACR Guidance Document Review
- 9:30** Coffee Break
- 10:00** Legal Considerations: Overview
- 11:00** Legal Considerations: in Depth Case Histories and Review
- 12:00** Lunch on Your Own - End of Session

Poolside Chat™

One of the most valuable aspects of this course is its unique Poolside Chat™. In this session the attendees gather after hours in an informal format and are encouraged to ask any and all questions that they may have regarding MR Safety issues. These are then publicly discussed, analyzed, and addressed in a manner that not only answers the questions posed, but provides and teaches the attendee a logical framework as to how to reason their way to answer such questions in clinically realistic situations. Discussion, debate, and reasoned progression through available options are key factors of this session. The Poolside Chat™ is routinely evaluated as one of the most valuable and unique aspects of this course.



Actual Evaluations From the Most Recent MRMD/MRSO Course Attendees (October, 2015)

"Fantastic analogies of all concepts."

"Amazing delivery of information with incredible passion! Best content of any conference I've been to. Makes me realize how much I still have to learn. Manny is an excellent speaker/teacher."

"The energy, passion, and enthusiasm Manny is outstanding. This course has been everything I hoped it would be and more... the background has been invaluable and has helped me so much to be able to make decisions."

"A very energetic, engaging and interesting speaker. I learned a great deal and will take many concerns back to work to precipitate policy change."

Thoroughly enjoyed this course. Manny's execution of topics is fantastic - especially with the use of real life examples."

"The most worthwhile conference I have been to for my career in 17 years of MRI. I wish this was part of our MRI training. It has re-enthused me to make a difference at work each day."

This CME/CE activity is designed for Radiologists and/or other Physicians, Technologists/Radiographers, Physicists, Healthcare Risk Managers, MR Research personnel, and any other present and/or future MR Medical Directors or MR Safety Officers.

"What a rockstar!"

"Absolutely fabulous! So much food for thought for my current practice. Loved every second of this course and think it should be mandatory.."

"By far the most informative, comprehensible, and relevant imaging conference I have attended. So much I thought I knew - I didn't. So much to take back to my workplace that can definitely be implemented to improve our practices and policies."

"Very impressed. The questions I had before arriving were all answered. I only hope I can convey the safety lessons learned to my colleagues with as much clarity as they have been expressed to me."

"I would like everyone in my Department to attend this course. In fact, I would like to go to all of Manny's courses in the future. Brilliant! This course was a long time overdue. Thank you so much for explaining complicated issues so well."



Embassy Suites Rosemont/O'Hare - Chicago

Unwind at the Embassy Suites by Hilton Chicago O'Hare Rosemont hotel, across the street from the Donald E. Stephens Convention Center. Our contemporary hotel is designed in the style of Frank Lloyd Wright, with stained glass windows, wooden accents and skylights. Our stylish atrium lobby was also recently renovated in June, 2014. Begin with a free made-to-order breakfast every morning in our seven-story garden atrium with a calming waterfall. Lounge in your two-room suite in our 100% non-smoking hotel, complete with a separate living room, refrigerator, microwave and WiFi access (surcharge). Enjoy drinks and snacks at our complimentary Evening Reception*.

Room Reservations

We have been given special reduced sleeping room rates at Embassy Suites Rosemont/O'Hare of \$159.00 per night plus tax and resort fees. This rate is limited and based on availability. Please contact the hotel by dialing 847-678-4000 and ask for the "Northwest Imaging Forums" rate. Please call or email us if you have any questions.

IMPORTANT LUXOR NOTE: The meeting will be held in the Grand Ball Room Lobby Level. **Cutoff Date is March 25th, 2016 or when our reserved room block sells out (whichever comes first)**

Cancellation Policy

All cancellation requests must be in writing.

1. Cancellations received on or before: 02/19/16 will receive a full refund.
2. Those received after 02/19/16 but through 03/18/16 are subject to a 25% service charge.
3. No credit or refunds are available on or after 03/19/16. **No exceptions will be made.**

In the event that any situation beyond the control of NWIF makes it impossible to conduct the meeting as advertised, each paid attendee will receive a voucher to attend a future NWIF meeting.

Registration Fees

Please Note: - **Early Fee** is payment received on or before 02/19/16;
- **Standard Fee** is payment received after 02/19/16 through 03/18/16
- **Late Fee** is payment received on or after 03/19/16

Kanal's MR Medical Director / MR Safety Officer Training Course

Physicians:

Early Fee **\$1500** Standard Fee **\$1550** Late Fee **\$1600**

Physicists and Other Health Care Professionals:

Early Fee **\$1125** Standard Fee **\$1175** Late Fee **\$1225**

Technologists:

Early Fee **\$750** Standard Fee **\$800** Late Fee **\$850**

***NOTE:** Kanal's MR Medical Director and MR Safety Officer Training Course is completely independent from the ABMRS and its MRMD, MRSO, and MRSE certification examinations. We have specifically scheduled courses at dates and venues so that the attendee could, if they so desire, take the ABMRS examinations immediately following the completion of these courses. For further information regarding the American Board of MR Safety or to register for any of its certifying examinations, please visit www.abmrs.org.

*"I've been through many a "snore fest" - but his sessions were interesting, intense, and thought provoking"
Prior MRMD/SO Course Attendee*

The Luxor Hotel and Casino - Las Vegas

We will meet in the fabulous LUXOR Hotel & Casino, the thirty story glass "Pyramid" on the famous Las Vegas strip. Located just 2.5 miles from McCarran International Airport, this elegant, 4,300 room hotel is the perfect setting for both business and pleasure. With eight restaurants, showroom entertainment, a 120,000 square foot casino and many attractions such as The Titanic Show & Museum, there is much to see and do. Across the street are the spectacular MGM Grand and Excalibur Hotels, offering yet more entertainment and fun. Las Vegas offers all its visitors unparalleled 24 hour excitement.

Room Reservations

We have been given special reduced sleeping room rates at the Luxor Hotel and Casino of \$52.00 per night plus tax/resort fees. Please contact the hotel by dialing Toll Free 800-926-4737 and ask for the group code "NW0716P" or copy the following link into a web browser: <https://resweb.passkey.com/go/NW0716P> Please call or email us if you have any questions.

IMPORTANT LUXOR NOTE: The meeting will be held in the (Egyptian Ballroom), which is located in the West Tower. When reserving a Luxor sleeping room, please consider requesting to be placed in the West Tower. **Cutoff Date is Friday June 24th, 2016 or when our reserved room block sells out (whichever comes first)**

Cancellation Policy

All cancellation requests must be in writing.

1. Cancellations received on or before: 06/03/16 will receive a full refund.
2. Those received after 06/03/16 but through 07/01/16 are subject to a 25% service charge.
3. No credit or refunds are available on or after 07/02/16. **No exceptions will be made.**

In the event that any situation beyond the control of NWIF makes it impossible to conduct the meeting as advertised, each paid attendee will receive a voucher to attend a future NWIF meeting.

Registration Fees

Please Note: - **Early Fee** is payment received on or before 06/03/16;
- **Standard Fee** is payment received after 06/03/16 through 07/01/16
- **Late Fee** is payment received on or after 07/02/16

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*"Enormous amount of information. Thank you for changing the way I analyze MRI safety."
Prior MRMD/SO Course Attendee*

Please call or email us if you have any questions: (888) 683-4930 or registration@nwforums.com

The Hyatt Dulles - Washington DC

Nestled in beautiful Northern Virginia, our contemporary hotel near IAD Dulles lets you experience the vibrant cities surrounding Washington D.C. Our complimentary shuttle service will take you to and from Dulles International Airport and nearby Reston Town Center. Whether you are attending a conference or reconnecting with friends, our beautifully designed suite rooms and service-focused amenities will make your stay seamless and comfortable. Spread out and relax in a spacious suite just 2.2 miles away from Dulles Int'l

Room Reservations

We have been given special reduced sleeping room rates at The Hyatt Dulles of \$169.00 per night plus tax and resort fees. This rate is limited and based on availability. Please contact the hotel by dialing 703-713-1234 and ask for the "Northwest Imaging Forums" rate.

Please call or email us if you have any questions.

IMPORTANT NOTE: The meeting will be held in the Luray Ballroom lobby level. **Cutoff Date is Monday October 24th, 2016 or when our reserved room block sells out (whichever comes first)**

Cancellation Policy

All cancellation requests must be in writing.

1. Cancellations received on or before: 09/23/16 will receive a full refund.
2. Those received after 09/23/16 but through 10/21/16 are subject to a 25% service charge.
3. No credit or refunds are available on or after 10/22/16. **No exceptions will be made.**

In the event that any situation beyond the control of NWIF makes it impossible to conduct the meeting as advertised, each paid attendee will receive a voucher to attend a future NWIF meeting.

Registration Fees

- Please Note:** - **Early Fee** is payment received on or before 09/23/16;
- **Standard Fee** is payment received after 09/23/16 through 10/21/16
- **Late Fee** is payment received on or after 10/22/16

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*"A course that I would recommend for all colleagues and friends."
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Please call or email us if you have any questions: (888) 683-4930 or registration@nwforums.com

Registration Form (Please Print - this form may be copied)

<i>Please check one:</i>		
<input type="checkbox"/> Kanal MR Safety: Chicago	April 11 - 13 Embassy Suites Rosemont/O-Hare Chicago, IL	Please check fee that applies. <input type="checkbox"/> \$1500 <input type="checkbox"/> \$1550 <input type="checkbox"/> \$1600 <input type="checkbox"/> \$1125 <input type="checkbox"/> \$1175 <input type="checkbox"/> \$1225 <input type="checkbox"/> \$750 <input type="checkbox"/> \$800 <input type="checkbox"/> \$850
<input type="checkbox"/> Kanal MR Safety: Las Vegas	July 25 - 27 The Luxor Hotel and Casino Las Vegas, NV	Please check fee that applies. <input type="checkbox"/> \$1500 <input type="checkbox"/> \$1550 <input type="checkbox"/> \$1600 <input type="checkbox"/> \$1125 <input type="checkbox"/> \$1175 <input type="checkbox"/> \$1225 <input type="checkbox"/> \$750 <input type="checkbox"/> \$800 <input type="checkbox"/> \$850
<input type="checkbox"/> Kanal MR Safety: Washington DC	November 14 - 16 The Hyatt Dulles Washington, DC	Please check fee that applies. <input type="checkbox"/> \$1500 <input type="checkbox"/> \$1550 <input type="checkbox"/> \$1600 <input type="checkbox"/> \$1125 <input type="checkbox"/> \$1175 <input type="checkbox"/> \$1225 <input type="checkbox"/> \$750 <input type="checkbox"/> \$800 <input type="checkbox"/> \$850

*Registration is also available online at: www.mrisafetycourse.com
 Note — Registration is confirmed and processed only when payment is received.*

Name (print) _____

Email Address (print) _____

Note: Email address is required for confirmation purposes.

Facility _____

The address below is (circle one): Work Home

Street _____

City _____ State _____ Zip code _____

Day Phone (_____) _____ (circle one) Work Home

Payment enclosed or amount charged to credit card \$ _____

Charge to: VISA MasterCard American Express Discover

Card Number _____ Exp. Date _____

3-Digit Credit Card Security Code (found on back of card) _____

Name on Card (print) _____

Card Holder Signature (required) _____

Make checks payable / send registration form to:



**Northwest Imaging
Forums, Inc.**
P.O. Box 25909
Eugene, Oregon 97402

Please contact us to register or with questions:

Phone: (888) 683-4930 Toll Free 9am - 5pm M-F (EST)
 (541) 683-4930 Direct 9am - 5pm M-F (EST)
 Fax: (541) 683-8499 24 Hours a Day
 E-mail: registration@nwforums.com
 Web site: www.nwforums.com

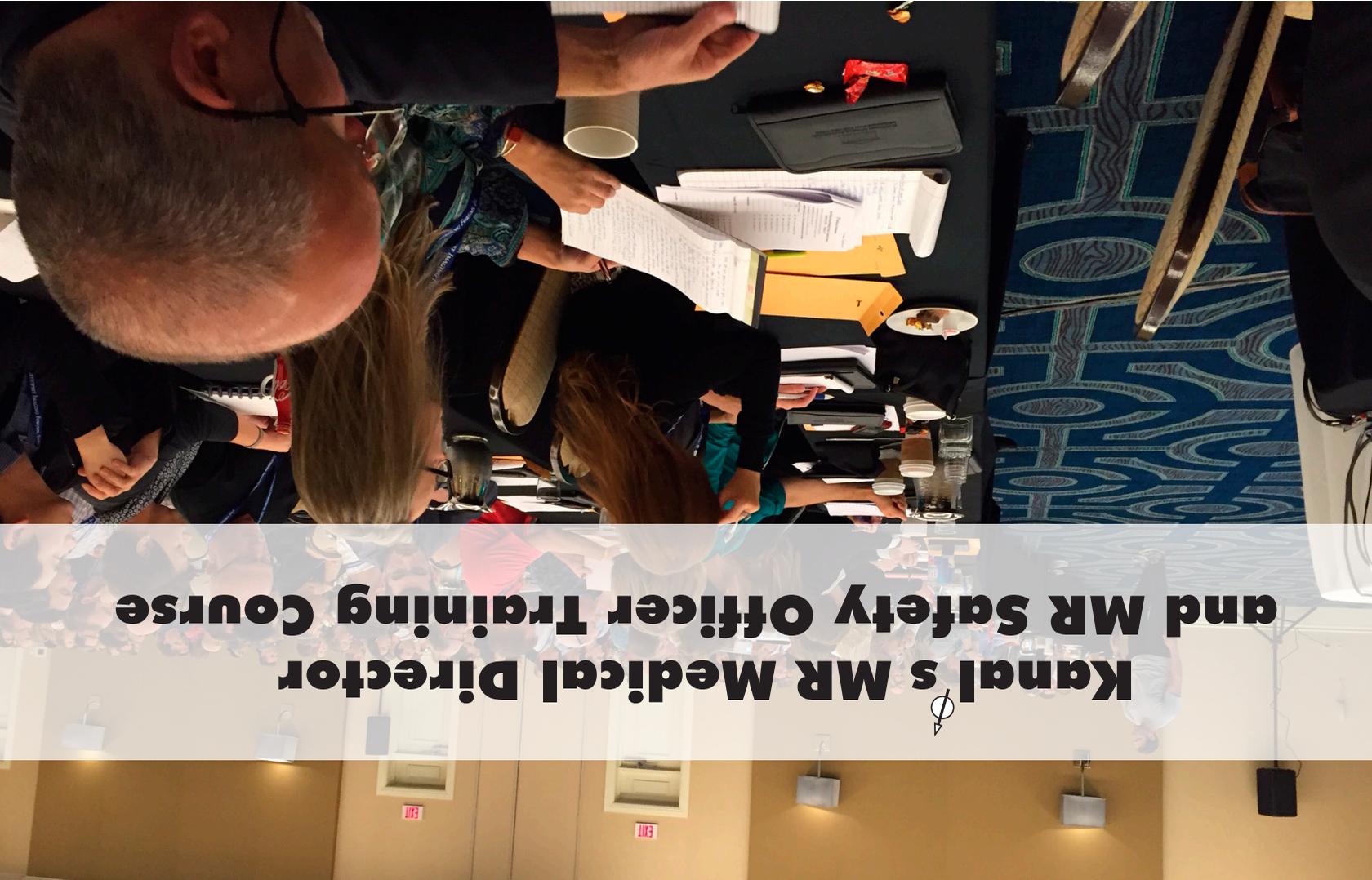


Northwest
Imaging Forums, Inc.

P.O. Box 25909
Eugene, OR 97402

PRE-
SORTED
FIRST-CLASS
MAIL
US POST-

Note: If you cannot attend, please pass this brochure to an interested colleague.



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