

**JOIN US IN VAIL OR VIA WEBCAST**

*15<sup>th</sup> Annual*

Vail 2015:

# New Advances in MR & CT

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**February 8 - 13, 2015**

Vail Marriott Mountain Resort • Vail, Colorado

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*17.25 AMA PRA Category 1 Credit(s)<sup>TM</sup>*



## ABOUT THE MEETING

This symposium is designed to provide a cutting edge yet practical approach to the clinical applications of MRI and CT. Topics include neuroimaging, cardiovascular, body, and musculoskeletal applications of CT and MR. Didactic lectures integrated with workstation presentations will demonstrate the principles of image display and basic post processing applications. Emphasis of this meeting is on the practical and clinical uses of new technologies. Faculty members have been selected for their teaching ability, as well as their expertise.

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Integrated Workstation Reviews will be presented using Vital Images advanced visualization software.

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## TARGET AUDIENCE

This CME activity is primarily intended and designed to educate diagnostic imaging physicians who perform and interpret MRI and CT examinations. It should also be useful in educating referring physicians who order MRI and CT procedures, as well as radiologic technologists.

## SCIENTIFIC SPONSOR

Educational Symposia

## ACCREDITATION

**Physicians:** Educational Symposia is accredited by the Accreditation Council for Continuing Medical Education (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)*<sup>TM</sup>. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

**Technologists:** This program has been submitted to the ASRT. The number of A CE credits will be available approximately 30 days prior to the meeting. Please visit [www.edusymp.com](http://www.edusymp.com) or call 1-800-338-5901 regarding the availability of Category A CE credit.

## EDUCATIONAL OBJECTIVES

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

- More effectively utilize CT and MR angiography.
- Apply advanced imaging techniques and protocols to clinical practice.
- Discuss the clinical indications and applications of spectral CT.
- Differentiate normal from abnormal image findings of common neurological, cardiopulmonary, musculoskeletal and abdominal abnormalities.
- More accurately assess the spine using advanced imaging applications and techniques.

*No special educational preparation is required for this CME activity.*

## THE MEETING WEEK

at Vail begins with your arrival on Saturday, February 7, 2015. Registration and a welcome reception for attendees and their families on Sunday evening enable you to meet the faculty and your colleagues. Formal lectures begin on Monday morning and end on Friday at 10:30 am. The program is designed to provide ample time for instruction and questions, as well as sufficient time for the enjoyment of the many recreational activities of Vail and its surrounding areas.

## COURSE ORGANIZATION

This program is planned and organized by Educational Symposia, a leader in continuing medical education since 1975.

## ACKNOWLEDGEMENT

Educational Symposia gratefully acknowledges the following corporate supporter:

Vital Images, Inc.

## FAMILY MEAL PLAN

We invite those accompanying you to the meeting to participate in the Family Meal Plan. Sign up for the Family Meal Plan during registration on-site at the meeting registration desk

## CANCELLATIONS

Cancellations must be received in writing. A \$50 processing fee will be applied to all cancellations. Refunds requested in writing prior to January 9, 2015 will be issued for the amount of tuition paid less the \$50 processing fee. No refunds will be made on or after that date.

## REGISTRATION INFORMATION

**Tuition for live conference** includes all course materials, including a comprehensive course syllabus (printed black and white syllabus or color e-syllabus), a welcome reception, daily breakfasts and après-ski on Wednesday. Early registration is strongly suggested. There will be a \$50 surcharge for anyone registering after January 28, 2015. Minimum and maximum attendance levels have been established for this meeting. If your registration cannot be accepted, you will be issued a full tuition refund.

**Tuition for live webcast** includes participation for one registrant. Each registrant must sign-in on a separate computer to receive credit. Prior to the meeting we will send you further information about the log in process. We will also send you a comprehensive color electronic course syllabus via email. If you have any questions or problems logging into the meeting we will have support personnel available at (800) 338-5901. There will be a \$50 surcharge for anyone registering after January 28, 2015.

**Please note:** A minimum number of registrants is required to live webcast this course. If the minimum number is not met by January 9, 2015 the live webcast activity may be cancelled and a full refund issued.

## Webcast Requirements

Visit the Help Center at [www.edusymp.com/site/help](http://www.edusymp.com/site/help) to review the computer and internet requirements for viewing live webcast meetings.

### 4 Easy Ways To Register

#### We Accept



**INTERNET**  
[www.edusymp.com](http://www.edusymp.com)

#### MAIL

Check payable to:  
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

**Reduce your mail clutter or just add email announcements. Please visit the "Mailing List" section of our website at [www.edusymp.com](http://www.edusymp.com).**

**Disclaimer:** Educational Symposia (ESI) as planner and presenter of this meeting, and Professional Travel as the official travel agency for this meeting, 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 wishes 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.



# Faculty

## Program Director

**Lawrence N. Tanenbaum, M.D., FACR**

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### Garry E. Gold, M.D.

*Professor of Radiology  
Courtesy Professor Bioengineering and  
Orthopaedic Surgery  
Associate Chair of Research  
Department of Radiology  
Stanford University Medical Center  
Stanford, CA*

### Thomas M. Grist, M.D., FACR

*John H. Juhl Professor of Radiology,  
Medical Physics and Bioengineering  
Chairman, Department of Radiology  
University of Wisconsin-Madison School  
of Medicine and Public Health  
Madison, WI*

### Beth G. McFarland, M.D., FACR

*SSM St. Joseph Hospital  
Chesterfield, MO*

### Erik K. Paulson, M.D.

*Chairman, Department of Radiology  
Duke University School of Medicine  
Durham, NC*

### Lawrence N. Tanenbaum, M.D., FACR

*Director MRI, CT and Outpatient/Advanced  
Development  
Mount Sinai School of Medicine  
New York, NY*

### Chip Truwit, M.D.

*Chief of Radiology  
Hennepin County Medical Center  
Professor of Radiology  
University of Minnesota School of Medicine  
Minneapolis, MN*

### J. Pablo Villablanca, M.D.

*Professor of Radiological Sciences  
Chief, Neuroradiology Section  
Medical Director of MRI  
Director, Interventional Spine Service  
David Geffen School of Medicine at UCLA  
Los Angeles, CA*

### Alison G. Wilcox, M.D., FSCCT

*Associate Professor of Radiology and  
Internal Medicine  
Section Chief - Cardiothoracic Imaging  
Medical Director, Imaging, Keck Hospital  
of USC  
Keck Medical Center of USC*

**If you receive more than one brochure,  
please pass the extra along to a colleague.**

# Program

## SUNDAY, FEBRUARY 8, 2015

5:00 – 6:00 PM Registration and  
Welcome Reception

## MONDAY, FEBRUARY 9, 2015

6:15 – 6:45 AM Breakfast for Registrants &  
Meal Plan Participants

6:45 – 7:25 Dose Management in Clinical CT  
*Lawrence N. Tanenbaum, M.D., FACP*

7:25 – 8:05 Imaging of Acute Brain Trauma  
*Chip Truwit, M.D.*

8:05 – 8:45 Imaging Cerebral Aneurysm -  
with Workstation Review  
*J. Pablo Villablanca, M.D.*

8:45 – 9:00 Coffee Break for Registrants

9:00 – 9:30 CT of Acute Stroke -  
with Workstation Review  
*Lawrence N. Tanenbaum, M.D., FACP*

9:30 – 10:00 MRI of CNS Infection  
*Chip Truwit, M.D.*

10:00 – 10:30 Imaging of White Matter  
Disease  
*J. Pablo Villablanca, M.D.*

**10:30 End of Session**

## TUESDAY, FEBRUARY 10, 2015

6:15 – 6:45 AM Breakfast for Registrants &  
Meal Plan Participants

6:45 – 7:25 Advanced Imaging of CNS  
Neoplasms – Characterization  
and Surveillance - with  
Workstation Review  
*Lawrence N. Tanenbaum, M.D., FACP*

## TUESDAY, FEBRUARY 10, 2015 (Continued)

7:25 – 8:05 Beyond the Canal:  
Imaging Anatomy & Pathology  
of Peripheral Nerves  
*J. Pablo Villablanca, M.D.*

8:05 – 8:45 CTA of Carotid Disease -  
with Workstation Review  
*Chip Truwit, M.D.*

8:45 – 9:00 Coffee Break for Registrants

9:00 – 9:30 Orbital Imaging  
*Chip Truwit, M.D.*

9:30 – 10:00 Cervical Spine Trauma  
*J. Pablo Villablanca, M.D.*

10:00 – 10:30 Spine Diffusion Imaging  
*Lawrence N. Tanenbaum, M.D., FACP*

**10:30 End of Session**

## WEDNESDAY, FEBRUARY 11, 2015

3:00 – 3:30 PM Après-Ski for Registrants &  
Meal Plan Participants

3:30 – 4:05 Spectral (Dual Energy) CT:  
Applications in the Abdomen  
and Pelvis  
*Erik K. Paulson, M.D.*

4:05 – 4:40 CT Colonography: Techniques  
and Hot Topics  
*Beth G. McFarland, M.D., FACP*

4:40 – 5:15 Coronary Artery Anatomy and  
Variants - with Workstation  
Review  
*Alison G. Wilcox, M.D., FSCCT*

5:15 – 5:30 Coffee Break for Registrants

## WEDNESDAY, FEBRUARY 11, 2015 (Continued)

- 5:30 – 6:00 CT Colonography:  
Clinical Case Review and  
Reading Strategies - with  
Workstation Review  
*Beth G. McFarland, M.D., FACR*
- 6:00 – 6:30 Cardiac CTA in the ED  
*Alison G. Wilcox, M.D., FSCCT*
- 6:30 – 7:00 How to Implement a CT  
Colonography Clinical Program  
*Beth G. McFarland, M.D., FACR*
- 7:00 End of Session**

## THURSDAY, FEBRUARY 12, 2015

- 6:15 – 6:45 AM Breakfast for Registrants &  
Meal Plan Participants
- 6:45 – 7:25 The Incidental Liver Lesion:  
Practical Approach and Role of  
Liver Specific MR Contrast Agents  
*Erik K. Paulson, M.D.*
- 7:25 – 8:10 MRI of the Knee  
*Garry E. Gold, M.D.*
- 8:10 – 8:45 Non-Contrast MRA:  
Back to the Future  
*Thomas M. Grist, M.D., FACR*
- 8:45 – 9:00 Coffee Break for Registrants
- 9:00 – 9:30 Imaging the Acute Abdomen:  
When to Worry  
*Erik K. Paulson, M.D.*
- 9:30 – 10:00 MRA for Pulmonary Embolism  
*Thomas M. Grist, M.D., FACR*
- 10:00 – 10:30 Imaging the Aorta with CT  
*Alison G. Wilcox, M.D., FSCCT*
- 10:30 End of Session**

## FRIDAY, FEBRUARY 13, 2015

- 6:15 – 6:45 AM Breakfast for Registrants &  
Meal Plan Participants
- 6:45 – 7:25 MRI of the Ankle and Foot  
*Garry E. Gold, M.D.*
- 7:25 – 8:05 Pancreatic Cancer:  
Diagnosing and Staging  
*Erik K. Paulson, M.D.*
- 8:05 – 8:45 Cardiac MRI:  
How I Do the Basics  
*Thomas M. Grist, M.D., FACR*
- 8:45 – 9:00 Coffee Break for Registrants
- 9:00 – 9:30 TAVR: Tips and Tricks for  
Acquisition and Interpretation -  
with Workstation Review  
*Alison G. Wilcox, M.D., FSCCT*
- 9:30 – 10:00 MRI of the Shoulder  
*Garry E. Gold, M.D.*
- 10:00 – 10:30 CTA vs. MRA: What is Best for  
Your Patients?  
*Thomas M. Grist, M.D., FACR*
- 10:30 End of Program**

Workstation case reviews provided by  
Vital Images Advanced Visualization Software

# Vail Marriott Mountain Resort

## ABOUT THE RESORT

Conveniently nestled at the base of Vail Mountain in Lionshead is the Vail Marriott Mountain Resort. The Eagle Bahn Gondola, the fastest way to the top of Vail Mountain, is just 150 yards away. The full-service Vail Marriott Mountain Resort is a 344 room property minutes from Vail Square at Lionshead and features 25,000 square feet of event space. For more information on the resort visit <http://www.marriott.com/whrco>.



## HOW TO GET THERE

Fly directly Vail/Eagle County Airport, located just 40 minutes west of Vail. Daily non-stop flights are available to Denver for major national and international carriers; a beautiful 2 hour drive through the mountains. *Professional Travel can arrange your car rentals by calling 800-237-7230.*

**SPACE IS LIMITED - RESERVE TODAY:** Make your reservation online at: <https://resweb.passkey.com/go/MRCT2015> or Call for Reservations: (877) 622-3140 and identify yourself as a registrant of "MRCT/Pathology". Call Professional Travel at 800-237-7230 for further assistance.

Group Room Rates Start At.....\$379.00/nt.  
Condo Rates Start At (Limited Availability).....\$539.00/nt.

**Hotel / Condo cut-off date: January 6, 2015**

Call Professional Travel for group rate off-site condo reservations: (800) 237-7230

Off-site Condo Rates Start At .....\$424.00/nt.  
**Condo group rates go up after September 1, 2014**

**HOTEL TAX:** 9.8%  
**ROOM PREFERENCE:** King bed/Two double beds - Smoke Free Property  
Registered Guest Parking Valet is \$30 per day. Parking charges are subject to change on an annual basis. These prices are applied on a per car basis and based on a 24 hr. cycle with in/out privileges  
**DEPOSIT POLICY:** All hotel reservation requests will require a credit card guarantee, to confirm and full payment of room and tax will be charged on cut off date of Tuesday, January 6, 2015.  
**CANCELLATION POLICY:** Reservations cancelled after January 6, 2015 will forfeit all nights reserved. No-shows are considered guaranteed bookings and will be charged the entire length of stay. Any no-show reservations will be cancelled for all remaining room nights. Early departures will forfeit the remaining room night's room charges. Check in time is: 4:00 PM; Check out time is: 11:00 AM.  
**HOTEL:** 715 West Lionshead Circle • Vail, Colorado 81657  
**PH:** 970.476.4444

## LIFT TICKETS/SKI RENTALS

Order your deeply discounted Lift Tickets, Ski Rentals, Van Transfers and Car Rentals at [www.edusymp.com](http://www.edusymp.com) or call Professional Travel at 800-237-7230.

**Meeting Registration Form:** **15<sup>th</sup> Annual Vail 2015: New Advances in MR & CT**  
Vail Marriott Mountain Resort • Vail, Colorado • February 8 - 13, 2015 **VMRCT15**

Attendance is limited; therefore, early registration is strongly suggested. **There will be a \$50 surcharge for anyone registering after January 28, 2015.**

**REGISTER ONLINE: [WWW.EDUSYMP.COM](http://WWW.EDUSYMP.COM)**

### TUITION: LIVE MEETING

Check Meeting  
Registration below:

☐ **\$1050**

☐ **\$820**

Check syllabus  
selection below:

☐ **ELECTRONIC SYLLABUS**  
(Color)

☐ **PAPER SYLLABUS**  
(Black & White)

☐ **BOTH**  
(Paper & Electronic at  
an extra cost of \$25)

### TUITION: LIVE WEBCAST

Please check your selection below:  
**INCLUDES ELECTRONIC SYLLABUS ONLY**

☐ **\$1050**

☐ **\$820**

☐ Physicians ☐ Company Personnel  
☐ Scientists

☐ Fellows\* ☐ P.A./R.A.  
☐ Full Time Military\* ☐ Retired Physicians  
☐ Residents\* ☐ Technologists  
☐ VA Physicians\*

**\*MUST ENCLOSE OR FAX LETTER FROM YOUR DIRECTOR CERTIFYING STATUS.**

**REGISTER ONLINE AND SAVE \$20! By Providing the Promo Code: Example - Promo Code: XXXXX#**

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Address	City / State / Zip / Country	
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