Hands-on SBRT Workshop

October 14-16, 2016
Seattle, WA
in partnership with

UW Medicine
UNIVERSITY OF WASHINGTON MEDICAL CENTER

~ AAPM endorses the educational component of this program. ~
It does not however, endorse any product used or referred to in the program.

The Radiosurgery Society © (RSS) does not endorse the products in question; rather endorses the educational component of this program.

MTMI
Medical Technology Management Institute
A continuing education division of HERZING UNIVERSITY

8 SAMs offered

includes 6 hours of hands-on labs
About this Workshop
Stereotactic Body Radiation Therapy (SBRT) is proving to provide clinical advantages in treating tumors in some anatomical sites. This technique requires more rigorous set-up and positioning of the patient, accurate definition of small radiation fields, management of patient motion and comprehensive quality assurance of treatment delivery. This workshop addresses these issues for an SBRT program. An overview of critical considerations for SBRT is presented in a didactic format each day, hands-on demonstrations of important procedures and helpful tools are covered in a clinical laboratory environment on day two, and an opportunity to meet the experts in small groups for informal discussions on day three. The labs address details of the SBRT clinical workflow including small field data collection and treatment planning commissioning, patient immobilization and motion management and quality control assessment processes. Plan to get all your questions answered by an experienced and knowledgeable faculty member.

Who Should Attend
This hands-on workshop is for medical physicists, dosimetrists and other healthcare professionals interested in learning the technical aspects of establishing an SBRT program. Radiation Oncologists may also benefit from attending this comprehensive program.

Workshop Format
Attendees will be assigned to small groups and rotate through 6 hours of interactive lab sessions. Laboratory sessions will be facilitated by workshop faculty members and vendor representatives. Labs will be conducted on equipment from a variety of vendors. The equipment provided by participating vendors is not an endorsement of these systems but is merely intended to represent examples of the technology available and the procedures used. Continental breakfast and lunch are included. The workshop will adjourn at 1:00 pm on Sunday.

Meet the Experts
This session will provide the attendees the opportunity to participate in small group discussions with experienced medical physics and radiation oncology experts to address a wide array of topics of specific interest to SBRT.

Educational Objectives
At the completion of this course, participants will be able to:
• Obtain in-depth knowledge on the current treatment protocols for SBRT.
• Understand the radiobiological foundations of SBRT.
• Describe how to set up an SBRT program including the clinical and commissioning requirements.
• Become familiar with the simulation and motion management options appropriate for SBRT treatments.
• Review the SBRT treatment planning goals and strategies for 3DCRT, IMRT and VMAT SBRT.
• Obtain knowledge on the AAPM, ASTRO and ACR recommended guidelines for QA of SBRT.
• Identify the various treatment machines capable of delivering SBRT, the importance of daily image guidance and image guidance strategies.
• Review the previously reported misadministration's in SBRT, learn incidence reporting and become familiar with the strategies for establishing safety processes and implementing timeout checklists.
• Obtain knowledge on advances in SBRT, such as functional imaging, immune-response and high radiation doses and discuss the future directions of SBRT.
• Develop hands-on experience and observe typical SBRT procedures within a lab environment.
• Gain exposure to and hands-on interaction with commercial solutions for common SBRT equipment.

Suggested books offered at reduced rates:
#1 Stereotactic Body Radiation Therapy - S. Lo et al - $140
#2 Stereotactic Radiosurgery and Stereotactic Body Radiation Therapy - S. Benedict et al - $130

Books delivered at workshop, order on Registration Form (additional books may be available at workshop)
**Workshop Schedule**

----------Friday, Oct 14-----------------------------------------------

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>7:30 am</td>
<td>Registration and Continental Breakfast</td>
</tr>
<tr>
<td>8:00 am</td>
<td>Welcome and Opening Remarks</td>
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<tr>
<td>8:15 am</td>
<td>Why SBRT and What is State-of-the-Art? (SAM #1)</td>
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<tr>
<td>9:15 am</td>
<td>Radiobiological Foundation of SBRT (SAM #2)</td>
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<tr>
<td>10:15 am</td>
<td>Informal Discussion and Break</td>
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<tr>
<td>10:45 am</td>
<td>Setting up an SBRT Program - Part I (SAM #3)</td>
</tr>
<tr>
<td>11:15 am</td>
<td>Informal Discussion and Break</td>
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<tr>
<td>12:00 pm</td>
<td>Lunch (provided)</td>
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<tr>
<td>1:00 pm</td>
<td>Simulation and Motion Management Options - (SAM #4)</td>
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<tr>
<td>2:00 pm</td>
<td>SBRT Treatment Planning (SAM #5)</td>
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<tr>
<td>3:00 pm</td>
<td>Informal Discussion and Break</td>
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<tr>
<td>3:30 pm</td>
<td>Patient/Treatment QA Requirements (SAM #6)</td>
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<tr>
<td>4:30 pm</td>
<td>Adjourn for the Day</td>
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</tbody>
</table>

----------Saturday, Oct 15-----------------------------------------------

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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</thead>
<tbody>
<tr>
<td>8:00 am</td>
<td>Coffee and Continental Breakfast</td>
</tr>
<tr>
<td>8:30 am</td>
<td>Treatment Delivery/Image Guidance</td>
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<tr>
<td>9:15 am</td>
<td>Patient Safety</td>
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<tr>
<td>10:00 am</td>
<td>Informal Discussion, Break and move to lab areas</td>
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<tr>
<td>10:30 am</td>
<td>4 Lab Sessions</td>
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<tr>
<td>12:30 pm</td>
<td>Lunch (provided)</td>
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<tr>
<td>1:00 pm</td>
<td>4 Lab Sessions</td>
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<tr>
<td>3:00 pm</td>
<td>Informal Discussion and Break</td>
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<tr>
<td>4:00 pm</td>
<td>4 Lab Sessions</td>
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<tr>
<td>6:00 pm</td>
<td>Reception and Networking</td>
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<td>(dinner on your own)</td>
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----------Sunday, Oct 16-----------------------------------------------

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<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>8:30 am</td>
<td>Coffee and Continental Breakfast</td>
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<tr>
<td>9:00 am</td>
<td>Advances in SBRT Part I: Functional Imaging (SAM #7)</td>
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<tr>
<td>9:30 am</td>
<td>Advances in SBRT Part II: Immuno-Response and High Radiation Doses</td>
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<tr>
<td>10:00 am</td>
<td>Future Directions of SBRT (SAM #8)</td>
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<td>11:00 am</td>
<td>Meet the Experts</td>
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<td>• Spine SBRT</td>
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<td>• Lung SBRT</td>
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<td>• Motion Management</td>
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<td>• Treatment Delivery and Image Guidance</td>
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<td>• Patient QA</td>
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<td>• Surface Imaging</td>
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<td>• Liver SBRT</td>
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<td>• Treatment Planning</td>
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<td>• Simulation</td>
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<td>• Small Field</td>
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<td>• Safety and National Error Reporting</td>
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<tr>
<td>12:40 pm</td>
<td>Wrap Up Session</td>
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<tr>
<td>1:00 pm</td>
<td>Adjourn</td>
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6 hours of hands-on INTERACTIVE labs
6 hours of hands-on interactive labs

Lab Topics:

<table>
<thead>
<tr>
<th>TPS Commissioning</th>
<th>Surface Imaging</th>
<th>Patient Specific QA</th>
</tr>
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<tbody>
<tr>
<td>SBRT Treatment Planning</td>
<td>Detectors for Small Fields</td>
<td>WL-MV/kV Combined Test</td>
</tr>
<tr>
<td>Image Registration</td>
<td>Patient Immobilization</td>
<td>Small Field Dosimetry</td>
</tr>
<tr>
<td>Respiratory Management</td>
<td>UW Cyclotron Tour</td>
<td>Pretreatment Localization</td>
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* register at [www.mtmi.net](http://www.mtmi.net) *

Program Co-Directors

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Radiation Oncology Department  
University of Washington  
Seattle, WA

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University of California at Davis Comprehensive Cancer Center  
Sacramento, CA

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University of Washington  
Seattle, WA

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Director of Medical Physics  
Swedish Cancer Institute  
Seattle, WA

Robert Stewart, PhD  
Associate Professor  
University of Washington  
Seattle, WA

Jing Zeng, MD  
Assistant Professor  
University of Washington  
Seattle, WA

Continuing Education

Physicists - This activity is designed to provide continuing education in radiation therapy for practicing clinical medical physicists. Application has been made to CAMPEP for approval of up to 18 hours of Medical Physics Continuing Education Credit (MPCEC) for qualified medical physicists.

Dosimetrists - An application has been submitted to the MDCB for approval of credits for dosimetrists. These credits are also recognized by the ARRT for continuing medical education credits for Certified Medical Dosimetrists. A certificate of attendance will be provided for each individual upon completion of this workshop.

SAM Credits

This activity includes approved SAM credits for Physicists. To cover approval, tracking and reporting costs, MTMI charges $30 for each SAM credit awarded. SAM credits may be purchased in advance or at the activity.

The American Board of Radiology (ABR) as part of its Maintenance of Certification (MOC) program for diplomates in radiology, radiation oncology and medical physics with time-limited or continuous certificates, requires participation in Lifelong Learning and Self-Assessment. The ABR requires each diplomat to attain at least 75 continuing education credits (CE) every 3 years which includes at least 25 self-assessment CE (SA-CE) credits. One form of SA-CE credits are ABR approved Self-Assessment Modules (SAMs). Participants are expected to self-report their SAM credits to the ABR.

Go to [www.theabr.org](http://www.theabr.org) for more information about their MOC program and requirements.
To register for this program:

- go to www.mtmi.net or mail it with your tuition to MTMI,
- call (800) 765-6864 using MasterCard or Visa, Discover, AMEX or fax the form to (414) 238-2740 w/credit card info
- Refunds, minus a $50 processing fee, will be granted for cancellations received prior to 10 days before the program.
- Cancellations received within 10 days of the program will receive a credit toward a future MTMI seminar, minus the $50 processing fee. No refunds will be made after the program has started.
- MTMI reserves the right to cancel any scheduled program because of low advance registration or other reasons.
- MTMI’s liability is limited to a refund of any tuition fee paid.

MTMI is committed to support anyone with special needs. Call 800-765-6864 for assistance.

Workshop Location & Accommodations

Friday – October 14
UW Center for Urban Horticulture
3501 NE 41st Street, Seattle, WA 98105

Saturday/Sunday – October 15 – 16
Warren G. Magnuson Health Sciences Center
University of Washington School of Medicine
1959 NE Pacific Street
Seattle, WA 98195

Watertown Hotel
4242 Roosevelt Way NE
Seattle, WA 98105
206-826-4242
$159.00 + tax (single/double)
http://www.watertownseattle.com/

OR

University Inn
4140 Roosevelt Way NE
Seattle, WA 98105
206-632-5055
$129.00 + tax (single/double)
http://www.universityinnseattle.com/

Shuttle service provided
to/from meeting locations

Airport transportation: Recommended is Shuttle Express - Reservations: 425-981-7000 or Light Rail to University of Washington Husky Stadium Station, located 1 mile from Watertown Hotel Call hotel when boarding Light Rail to schedule complimentary shuttle pick-up to hotel.

Registration Form:  Hands-on SBRT Workshop   Seattle, WA - Oct 14-16, 2016

Please print clearly - this is how your name will appear on your certificate.

Name: _____________________________________________________

Home Address: ______________________________________________

City:______________________State: _____ Zip code: _______________

*e-mail: ____________________________________________________

Day phone: ( ) _______________   Eve. phone: ( ) _______________

Tuition

<table>
<thead>
<tr>
<th>Tuition</th>
<th>Regular fee</th>
<th>Member fee</th>
<th>Become a Member</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physicist &amp; other</td>
<td>$995</td>
<td>$960</td>
<td>$65</td>
</tr>
<tr>
<td>Dosimetrist/Resident</td>
<td>$750</td>
<td>$715</td>
<td>$39</td>
</tr>
<tr>
<td>8 SAMs</td>
<td>$240</td>
<td>$260</td>
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</tr>
<tr>
<td>Suggested Book 1</td>
<td>$140</td>
<td>$140</td>
<td>Stereotactic Body Radiation Therapy - S. Lo et al</td>
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<tr>
<td>Suggested Book 2</td>
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<td>$130</td>
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</table>

Credit Card # ____________________________________________________

- MasterCard □ Visa □ Discover □ AMEX □ Check

Expiration date: ____________

3 digit code: ____________

Total: $ _________

Signature: ___________________________________________________

Return to:  MTMI • W140 N8917 Lilly Road • Menomonee Falls, WI 53051
800-765-MTMI(6864) or 262-717-9797 for FAX 414-238-2740 or email custservice@mtmi.net
or register online at www.mtmi.net