

## Objectives

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MRI is a complex modality taking advantage of the magnetic properties of hydrogen, which is abundant in human tissues. This program is designed as a review of basic MRI principles for the radiologic technologist who is beginning to work in MRI or those who are preparing for the ARRT advanced certification exam in MRI. The content is selected to mirror a portion of the ARRT published exam specifications (with the exception of clinical requirements).resolution, contrast resolution and SNR.

In general terms, following this course, the technologist should be able to:

- Understand the basic principles behind the production of an MR signal from hydrogen within human tissues
- Define T1-relaxation, T2-relaxation and Proton Density
- Understand how those intrinsic properties of tissues effect image contrast and how to control the MR image contrast using the available sequence parameters
- Understand the basic differences between the major MR pulse sequences and know the main clinical utilities of each
- Understand how sequence parameters effect the various components of MR image quality and know how to manipulate these sequence parameters to optimize MR image quality for various clinical situations

### Meeting Organizers

Wendy Callahan, RT(R)(MR)

Melonee Elrod, RT(R)(M)(CT)(MR)

Cindy Hipps, BHS, RT(R)(MR), FSMRT

Carol Lee, BSRT(R)(CT)(MR)

*Special Hotel Rate of \$259 plus tax has been secured at: (rooms are very limited)*

### Courtyard by Marriott Charleston Historic District

125 Calhoun Street  
Charleston, SC 29401  
**Tel: (843) 805-7900**

Use code **"SC SMRT"**

# South Carolina SMRT

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## 2016

### Chapter Sponsored Meeting

### "An MRI Registry Review"

with

**Bill Faulkner & Kristan Harrington**

**October 22, 2016**

**Medical University of South Carolina  
Drug Discovery Building  
334 President Street  
Charleston, SC 29425**



**8 Category A CE Credits  
Approved through SMRT**

A recognized CE mechanism of the ARRT

## Directions

## SC SMRT Chapter Meeting Agenda October 22, 2016

### Address for meeting registration:

**Medical University of SC**  
**Drug Discovery Building**  
**334 President Street**  
**Charleston, SC 29425**

Campus map can be found at:

<http://academicdepartments.musc.edu/osms/forms/campusmap.pdf>

See map for parking lots nearby.  
 Plan to arrive early.

### Meeting Organizers

Melonee Elrod, RT(R)(M)(CT)(MR)  
 Cindy Hipps, BHS, RT(R)(MR)  
 Carol Lee, BSRT(R)(CT)(MR)  
 Wendy Callahan, RT(R)(MR)

***A continental breakfast and lunch will be provided for attendees.***



|                       |                                |
|-----------------------|--------------------------------|
| <b>7:45 AM</b>        | <b>Continental Breakfast</b>   |
| <b>8:00-8:50 AM</b>   | <i>MRI Hardware</i>            |
| <b>8:50-9:40 AM</b>   | <i>Basic Principles of MRI</i> |
| <b>9:40- 10:00 AM</b> | <b>Break- visit vendors</b>    |
| <b>10:00-10:50 AM</b> | <i>Creating an MR Signal</i>   |
| <b>10:50-11:40 AM</b> | <i>Properties of Tissue</i>    |
| <b>11:40-12:40 PM</b> | <b>Lunch-Vendor area</b>       |
| <b>12:40-1:30 PM</b>  | <i>MR contrast control</i>     |
| <b>1:30-2:20 PM</b>   | <i>MR Pulse sequences</i>      |
| <b>2:20-2:30 PM</b>   | <b>Break</b>                   |
| <b>2:30-3:20 PM</b>   | <i>MR Data Acquisition</i>     |
| <b>3:20-4:10 PM</b>   | <i>MR Image Quality</i>        |

This one day course is designed to provide a basic overview of MR principles for those preparing to take the MR Registry in the near future. MR Students will also benefit by hearing one of the leading MR experts explain MR physics in a simply, fun and understandable way!! Faulkner and Associates come highly recommended by peers from across the globe. Bill is the owner of William Faulkner and Associates which is an MR Education and operations consulting company. He is revered as one of the industries most acclaimed and highly sought after MR professionals for his vast knowledge and expertise in the field of MR. His business partner, Kristan Harrington will join him for this day of education.

### Registration Information

*Early registration is recommended.*

Name\_\_\_\_\_

Institution\_\_\_\_\_

Address\_\_\_\_\_

City\_\_\_\_\_ State\_\_\_\_\_ Zip\_\_\_\_\_

Phone\_\_\_\_\_ Fax\_\_\_\_\_

Email\_\_\_\_\_

(Email confirmation only will be sent)

| Registration Fee: |  | <b>Early</b><br><i>(Before October 14<sup>th</sup>)</i> | <b>On-site</b> |
|-------------------|--|---|----------------|
|                   |  | <b>\$150</b>  | <b>\$160</b>   |

Space is limited-Please register early to secure space. Send check and completed form to the below. Email confirmation will be sent.

***Checks or money orders only will be accepted and should be made payable to SC-SMRT and sent to the following:***

**SC-SMRT**  
**c/o Melonee Elrod**  
**905 Liberty Highway**  
**Liberty, SC 29657**  
**Phone: (864) 918-3740**  
**Fax: (864) 868-0545**  
**E-mail address for information**  
[\*\*Melonee.Elrod@gmail.com\*\*](mailto:Melonee.Elrod@gmail.com)

