# Magnetic Resonance Safety Expert (MRSE)

~ WEBINAR for Physicists & Technologists ~


**August 3, 2019**

**Instructor:**

**Max Amurao, PhD, MBA, DABR(D,N), MRSE, CMLSO**

**~ 8 hours CAMPEP approved credit**
**~ 9.5 Category A credit**

MTMI Medical Technology Management Institute

A Continuing Education Division of The College of Health Care Professions

## Schedule

| | |
|---|---|
| 8:00 am | **MRI Safety for Medical Physicists and MRI Scientists - Introduction** |
| 8:15 am | **Static Magnetic Field** |
| 9:15 am | **Time Varying Radiofrequency Fields** |
| 10:15 am | ***Break*** |
| 10:30 am | **Time Varying Magnetic Fields** |
| 12:00 pm | ***Lunch*** |
| 12:30 pm | **MRI Safety – Accreditation and Regulatory Considerations** |
| 1:00 pm | **MRI Safety - Considerations for Engineering Controls** |
| | • MR construction & shielding design |
| | • MR safety zones |
| | • MR safety equipment |
| 2:00 pm | **MRI Safety - Considerations for Administrative Controls** |
| | • MR safety training |
| | • Signs and labels |
| | • Access control |
| | • MR safety committee |
| 3:00 pm | ***Break*** |
| 3:15 pm | **MRI Safety – Considerations for Procedural Controls** |
| | • MR safety screening |
| | • Implants, devices, objects |
| | • Patient positioning |
| | • Claustrophobia, anxiety, distress |
| | **MRI Safety - Special Considerations** |
| | • Pregnancy considerations |
| | • Emergencies in the MRI environment |
| | • Cryogen safety |
| 4:45 pm | **Q & A** |
| 5:00 pm | ***Adjourn*** |

~ times listed in Central Time ~

~ schedule subject to change ~

## Instructor

**Max Amurao, PhD, MBA, DABR(D,N), MRSE, CMLSO**

Dr. Amurao is an actively practicing safety professional and medical physicist. He is certified by the American Board of Radiology in Diagnostic Medical Physics and Nuclear Medical Physics, by the Board of Laser Safety, and by the American Board of MR Safety. He currently serves as the Director of Radiation Safety for Washington University in Saint Louis, and as an Assistant Professor in the Mallinckrodt Institute of Radiology.

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## Educational Objectives

***Upon completion of this activity, the participant will be able to:***

- Understand the MRI safety considerations for MR static magnetic fields, time varying magnetic field and time varying radiofrequency fields.
- Review the accreditation and regulatory considerations regarding MR safety.
- Describe the engineering controls for MR safety when considering MR construction & shielding design, MR safety zones & MR safety equipment.
- Identify MR safety considerations when conducting MR procedures.
- Become familiar with MRI safety considerations for administrative controls which include MR safety training, signage and labeling, access control and importance of MR Safety Committee.

## Credits

**CAMPEP** - This program provides 8 hours of continuing education for medical physicists. The program has been approved by CAMPEP for Medical Physics Continuing Education Credit (MPCEC) for qualified medical physicists.

**ASRT** - This program provides 9.5 hours of Category A continuing education credit for radiologic technologists approved by ASRT and recognized by the ARRT and various licensure states. Category A credit is also recognized by CAMRT's Continuing Education Credit Approval Program for CE credit in Canada. You must attend the entire program to receive your certificate of completion.

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## Magnetic Resonance Safety Expert (MRSE)

Webinar - Aug 3, 2019

*Print* Name: _____

Home address: _____

City: _____ State: _____ Zip: _____

Day phone: (____) _____ Evening phone: (____) _____

Email: _____

(confirmation email will be sent to this address)

*Check one:* ❒ Personal Check or ❒ Master Card, ❒ Visa, ❒ AMEX, ❒ Discover

cc#: _____

Exp. date: _____ 3 dig code: _____

| ***Registration Fees*** | price | member price |
|---|---|---|
| Physicist | ❒ $350 | ❒ $316 |
| Technologist | ❒ $250 | ❒ $250 |
| MTMI membership Physicist/Technologist | ❒ $65/$39 (discount effective immediately) | |
| ~ Cancellation fees apply - see website for details ~ | | |

Total: $_____

PLEASE ENCLOSE PAYMENT TO:
**MTMI**
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Menomonee Falls, WI 53051