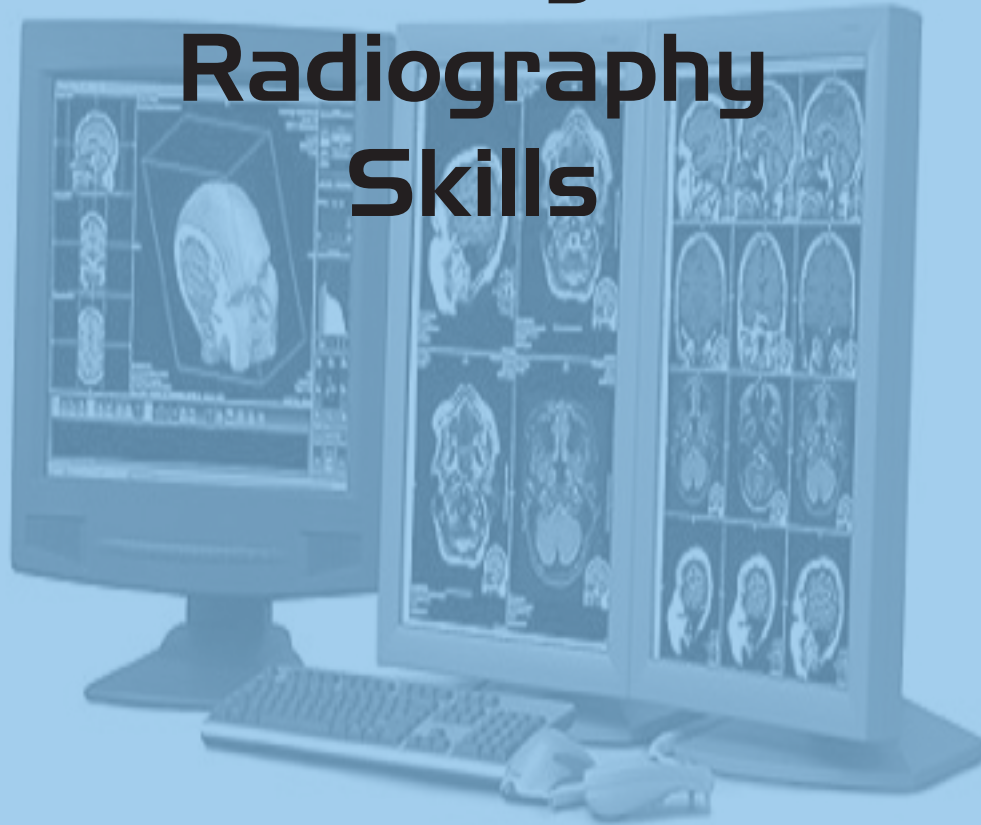


IMPROVING **Your Digital** **Radiography** **Skills**



Instructor:

Barry Burns, MS, RT(R)

Atlanta, GA - 1/24/09

Boston, MA - 3/21/09

Dallas, TX - 5/30/09

Washington, DC - 9/19/09

Instructor:

**Andrew Woodward, MA,
RT(R)(QM)(CT)**

Toronto, ON - 4/18/09

Edmonton, AB - 6/20/09

Las Vegas, NV - 8/15/09

New York, NY - 11/14/09

MTMI

**Medical Technology
Management Institute**

Who Should Attend

- Radiologic Technologists
- Medical Imaging Specialists
- PACS Administrators
- Vendor Personnel
- MQSA Inspectors
- Medical Physicists

Objectives

Upon completion of this seminar you will be able to:

- Describe the various types of digital detectors.
- Describe the characteristics and evaluation criteria for digital detectors.
- Describe the characteristics of the digital images
- Compare digital characteristics to film/screen characteristics.
- Compare the advantages and limitations of each system.
- Describe the digital image acquisition process.
- Describe the basic principles of initial image processing, identifying the role of exposure field recognition, anatomical menu selection, histogram analysis, default image processing.
- Describe the histogram and the process of histogram analysis as it relates to automatic re-scaling and the determination of an exposure indicator.
- Utilize the exposure indicator.
- Describe image acquisition precautions necessary for digital imaging.

The Instructors

Andrew Woodward,
MA,RT(R)(QM)(CT)
Assistant Professor
Division of Radiologic Science
Department of Allied Health Sciences
UNC School of Medicine

Barry Burns, MS, RT(R)
Research Professor (retired)
Division of Radiologic Science
Department of Allied Health Sciences
UNC School of Medicine

Seminar Schedule






8:00 am	Registration and Coffee
8:30 am	Digital Radiography <ul style="list-style-type: none">• Analog vs. digital image• Digital receptors• Digital image characteristics• Comparison of detector properties characteristics
	Image Acquisition Process <ul style="list-style-type: none">• Capture • Extraction • Histogram analysis• ADC • Application of processing codes
10:10 am	Informal Discussion and Break
10:20 am	Image Acquisition - Cassette Based vs. Cassette-less <ul style="list-style-type: none">• Radiographer's role• Exposure data recognition• Exposure field recognition<ul style="list-style-type: none">- image data extraction- Histogram analysis- Analog to digital conversion- Automatic re-scaling- Final image processing
12:00 pm	Lunch (on your own)
1:00 pm	Image Acquisition Issues <ul style="list-style-type: none">• Dynamic range vs. latitude• Histogram analysis errors• Exposure field recognition• Exposure index• Low intensity radiation response• Background• Scatter• Beam limiting-collimation• Collimation "rules"• Grid utilization
2:40 pm	Informal Discussion and Break
2:50 pm	Image Acquisition Issues (continued) <ul style="list-style-type: none">• Exposure field recognition• Beam/part/receptor alignment• Fundamental principle of exposure• Selection of exposure factors• Technical factor systems• Limit patient exposure
4:30 pm	Adjourn

Continuing Education Credit

This program provides 8 hours of Category A continuing education credit recognized by the ARRT for radiologic technologists, and credit from various licensure states. A certificate of attendance will be provided for each individual upon completion of the seminar. All attendees must attend the entire seminar to receive full credit.

Registration

To register for this seminar:

-  go to www.mtmi.net or
-  complete the registration form below and
-  mail it with your tuition to MTMI, or
-  call (800) 765-6864 using MasterCard or Visa, or
-  fax the form to (262) 717-9171 w/credit card info

- Refunds, minus a \$30 processing fee, will be granted for cancellations received prior to the Tuesday before the seminar.
- Cancellations received after the Tuesday preceding the seminar will receive a credit toward a future MTMI seminar, minus the \$30 processing fee. No refunds will be made after the seminar.

Registration Discounts:

Group discounts - must register at the same time:

- 3-5 attendees receive a 5% discount on each registration
 - 6+ attendees receive a 10% discount on each registration
- The discount is not applicable if the tuition is paid by purchase order. For student rates, contact MTMI. Members of MTMI receive a 10% discount. Only one discount may be applied except for Institutional Members.

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 program tuition paid. MTMI recommends that attendees use refundable airline tickets. In case of cancellation of a seminar for any reason, MTMI is not responsible for travel costs incurred by attendees including non-refundable airline tickets.

Membership

Membership in the Medical Technology Management Institute includes:

- discounts on MTMI services
- member newsletter
- web access to MTMI records
- yearly transcripts
- special benefits throughout the year exclusive to members

Joining MTMI with this registration qualifies you for the member price. Check the membership box on the registration form or call MTMI. Annual membership dues for technologists are \$42.50. ***Seminar discount effective immediately.***

Location & Accommodations

Specific location and accommodation information will be listed on our website as soon as arrangements have been made.

**Please go to:
www.mtmi.net
or call
800-765-6864**

Contact the hotel directly to make reservations and identify yourself as attending the **MTMI** seminar.

Registration Form *Improving Your Digital Radiography Skills* date/city: _____
Name: _____ degree/title _____

Home Address _____ City _____
State: _____ Zip code: _____ *e-mail _____

* registration confirmation will be sent to this e-mail address-PRINT CLEARLY

Day phone () _____ Eve. phone () _____ FAX () _____
Credit Card Number _____ Master Card Visa
Expiration Date _____ Signature _____

Please enclose payment to **MTMI**:

- \$42.50 Yes! Enroll me in an Annual **MTMI** membership (discount effective immediately)

Regular price: \$195 (**MTMI** members \$175) - within 14 days of seminar

Advance price: \$185 (**MTMI** members \$166) - 14 days before seminar

At-the-door price: \$205 (**MTMI** members \$185)

Group discount: 3-5 attendees (5%) (must register together)

- 6 or more attendees (10%) (must register together)

Return to: **MTMI** ♦ 20900 Swenson Dr., Suite 650 ♦ Waukesha, WI 53186

800-765-**MTMI**(6864) or 262-717-9797 or fax 262-717-9171 or e-mail custservice@mtmi.net

Your satisfaction with **MTMI** programs is guaranteed, a guarantee we are confident you won't need to use.

Total:
\$ _____



Call 800-765-6864
2 weeks before the
seminar if you have
special needs.

MTMI

Medical Technology
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20900 Swenson Dr., Suite 650
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Please Route to:

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IMPROVING Your Digital Radiography Skills

This seminar, **“Improving Your Digital Radiography Skills”** will address:

- The types of digital detectors employed for radiography and how each acquires an image.
- Characteristics of digital acquisition systems.
- Image accession, initial processing and final processing.
- The relationship between radiographic exposure and image appearance.
- The appropriate processing steps and the errors that may occur.
- Acquisition precautions.
- Myths and fallacies about digital acquisition.
- Evaluation of digital images compared to film/screen images.

Is your career moving in the right direction?

Go to www.mtmi.net and see the many cross-training opportunities available.

- Comprehensive Mammography Training Course
- Breast Ultrasound Course
- CT Training Course for Technologists
- MRI Training Course for Technologists
- PACS Administrator Training Course
- Introduction to Medical Imaging Management
- DR/CR Training Course for Technologists
- Medical Dosimetrist Course
- Advanced Medical Dosimetry
- Bone Densitometry Training Course

