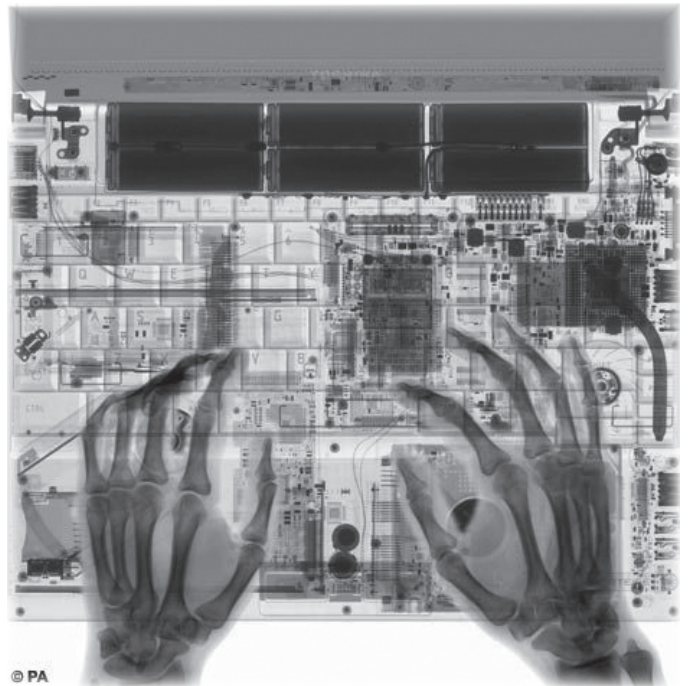


# The Evolution to All-Digital RADIOGRAPHY

*One Day Seminar*  
March 6, 2010 - Portland, OR  
April 24, 2010 - Sacramento, CA  
September 11, 2010 - San Diego, CA



**8 hours**  
**Category A**  
**Continuing**  
**Education**  
**Credits**

**MTMI**

Medical Technology  
Management Institute

## About this Seminar

This seminar will introduce the issues involved in implementing and working with CR and DR. The impact upon work process and the technologists who are involved in using these technologies will be presented. The discussions encountered in this seminar will limit the “computer-speak”, and draw upon the traditional language of imaging technologists to describe the basic workings of CR, DR and PACS.

The effects on radiography techniques, equipment, and the practice of medical imaging technology will be discussed. The question - “How is the evolution of digital imaging and information systems affecting quality control, staffing, training of technologists, and support staff requirements?” will be answered. The requirement for standardization of systems will also be addressed.

### Educational Objectives

*Upon completion of this seminar  
you will be able to:*

- ◆ Define both CR and DR and describe the advantages and potential disadvantages of each.
- ◆ Describe the changes in radiographic techniques associated with CR & DR.
- ◆ Describe the issues involved in using CR and/or DR in the PACS environment.
- ◆ Define each and describe the relationship between PACS, HIS and RIS.
- ◆ Describe the advantages and disadvantages of CRT vs. LCD display in the Medical Imaging environment.

### Who Should Attend

- Technologists
- Students
- Educators
- Vendor Personnel

### Instructor

**Russell L. Cain, MA, MS, CRA, RT(R) (CT)**

Russ Cain is an active radiologic technologist who is currently the Director of Radiology at Antelope Valley Hospital in Lancaster, California. Russ is one of the initial group of Certified Radiology Administrators, certified by the American Healthcare Radiology Administrators. He is an educator who holds multiple graduate degrees and has taught psychology and management in undergraduate and graduate programs. Russ is a scuba instructor and is pursuing a doctoral degree in clinical psychology and Business Administration. This diverse background facilitates an uncommon insight into the issues of taking radiology into the electronic age, an insight he will share with the attendees of this seminar.



## **MTMI - Making Technology Work for You!**

go to [www.mtmi.net](http://www.mtmi.net) for a complete list of programs

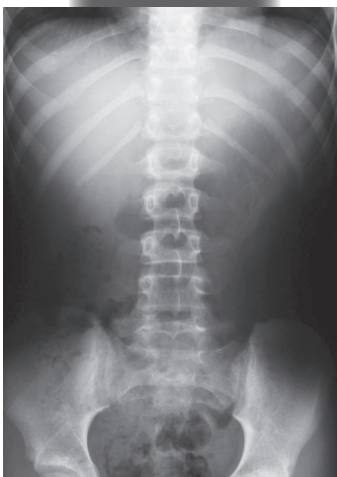
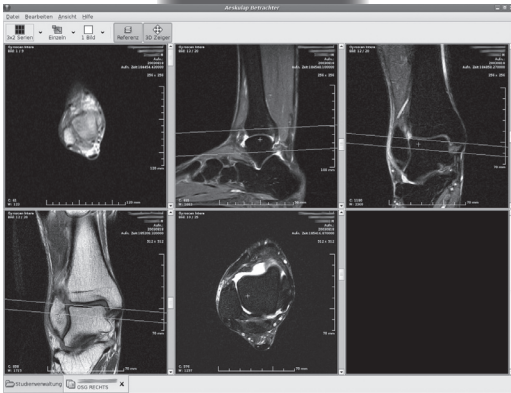
### Continuing Education Credit

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.








## Seminar Schedule

- 8:00 am **Registration and Coffee**
- 8:30 am **DR versus CR for the Technologist**
- 10:10 am **Informal Discussion and Break**
- 10:20 am **DR/CR Techniques, Enhanced Applications and Artifacts**
- ◆ S numbers/Exposure Index
  - ◆ Changes in techniques (kVp, latitude, etc.)
  - ◆ Teleradiology
  - ◆ Artifacts
  - ◆ Portables
- 11:10 am **Integrating DR/CR Images into PACS/RIS/HIS**
- ◆ PACS components
  - ◆ Understanding the lingo (DICOM, work-lists, frame-grab, soft copy, WAN, LAN, jukebox, server, etc.)
  - ◆ Workstations
  - ◆ Archiving
- 12:00 pm **Lunch (on your own)**
- 1:00 pm **The Impact of DR/CR**
- ◆ Eliminating the file room
    - ◆ re-staffing needs
  - ◆ Work flow efficiencies
    - ◆ making it work for you
  - ◆ Feasibility of the all digital department
    - ◆ can we get along without a processor
  - ◆ Retraining to survive
  - ◆ Cost savings to make it pay
- 1:50 pm **Softcopy Display of DR/CR Images**
- ◆ CRT vs. LCD
  - ◆ Applying window width and level
  - ◆ QA of softcopy vs. film
- 2:15 pm **HL7, DICOM3 and IHE**
- ◆ Definition
  - ◆ Telemedicine issues
  - ◆ Impact on Radiographers
- 2:40 pm **Informal Discussion and Break**
- 2:50 pm **Digital Imaging and HIPPA**
- ◆ Impact of HIPPA on the Digital Workplace
  - ◆ Effects of HIPPA
- 3:40 pm **Survival Skills for the RT**
- ◆ Ethics of imaging
  - ◆ Staying up-to-date
  - ◆ Stress management
- 4:30 pm **Adjourn**



## Registration

To register for this seminar:

-  go to [www.mtmi.net](http://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 replace certificates
- ◆ yearly transcripts
- ◆ special benefits throughout the year exclusive to members

Joining **MTMI** with this registration qualifies you for the member discount. Indicate your interest in membership on the registration form or call **MTMI**. Annual membership dues are \$42.50. 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](http://www.mtmi.net)  
or call  
800-765-6864**

## Register early and SAVE!

Registration Form *The Evolution to All-Digital Radiography* city/date: \_\_\_\_\_

Please Print Clearly - This is how your name will appear on your certificate.

Name: \_\_\_\_\_ degree/title \_\_\_\_\_

Home Address \_\_\_\_\_ City \_\_\_\_\_

State: \_\_\_\_\_ Zip code: \_\_\_\_\_ e-mail \_\_\_\_\_ e-mail address used only for notification of future programs

Day phone ( ) \_\_\_\_\_ Eve. phone ( ) \_\_\_\_\_ FAX ( ) \_\_\_\_\_

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



Registration Fee	Please enclose payment to MTMI
more than 14 days before seminar	<input type="checkbox"/> \$179 <input type="checkbox"/> \$161 (member price)
within 14 days of the seminar	<input type="checkbox"/> \$189 <input type="checkbox"/> \$171 (member price)
at-the-door	<input type="checkbox"/> \$199 <input type="checkbox"/> \$179 (member price)
MTMI membership	<input type="checkbox"/> \$42.50 (discount effective now)

Total enclosed:  
\$ \_\_\_\_\_

Credit Card Number \_\_\_\_\_ Master Card Visa

Expiration Date: \_\_\_\_\_ Signature \_\_\_\_\_

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](mailto:custservice@mtmi.net)

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