

Abstracts for 2010 OSRT Meeting

THURSDAY—Joint AEIRS/OSRT Sessions

Redesigning Courses for Student Success: Outcomes, Assessments, and Activities

Robin Lightner, Ph.D., Associate Professor of Psychology, Learning and Teaching Center Director
Ruth Benander, Ph.D., Professor of English, Past Learning and Teaching Center Director
University of Cincinnati Raymond Walters College

This presentation will lead participants through the process of course redesign. The first step involves identifying the enduring skills that students should retain long after the course is over. In the context of these skills, participants will phrase course specific learning outcomes that are student centered, written in concrete language, and clearly measurable. Based on these student learning outcomes, participants will identify appropriate assessments as well as activities that will appropriately prepare students for these assessments. By the end of the workshop, participants will have a practical outline for redesigning a student learning centered course.

Active Learning Strategies in the Classroom

Lauren Huffman, MAE, R.T.(R)(CT), Clinical Coordinator
Zane State College

This lecture looks into the differences between passive and active learning. The focus will be on active learning and its impact on student engagement and rich learning experiences. Different techniques and examples will be given regarding active and collaborative learning. A short collaborative activity is planned to discuss the importance and relevance of active learning.

The Lost Art of “Professionalism”

Joy Menser, MSM, RT, (R)(T), Assistant Professor, Program Director, Coordinator of Imaging Science

Owensboro Community & Technical College, Owensboro, KY
AEIRS Board Member and President-Elect

In dealing with the younger and current generation of students today, we find that the concept of professionalism and work ethic is a foreign concept to them. This age group is primarily concerned with satisfying their own needs and wants – preferably as quickly as possible. Through this open forum, we plan to explore methods which have been successful as we work to instill these qualities in the individual.

Accreditation 101 for Radiologic Science Professionals

Leslie F. Winter, M.S., R.T.(R), Chief Executive Officer
Joint Review Committee on Education in Radiologic Technology

This presentation will increase participants' knowledge of the accreditation process and its role in securing quality assurance in professional education.

Clinical Assessment: Who is Accountable?

Leslie F. Winter, M.S., R.T.(R), Chief Executive Officer

Joint Review Committee on Education in Radiologic Technology

This presentation will provide a brief overview of the role of outcomes assessment in improving program quality. Emphasis will be focused on the assessment of clinical competency skills and how this pertains to employer satisfaction. Employers desire individuals who can critically think, communicate, manage time, and are knowledgeable in the discipline.

THURSDAY Evening—OSRT Sessions

Current Issues in Radiologic Science and Medical Imaging Education (TH02)

Sharon Keegan, M.Ed., R.T.(R), Assistant Professor & Clinical Coordinator

University of Cincinnati, Raymond Walters College, Radiologic Technology Program

A look at the current issues affecting radiologic technology such as JRCERT accreditation, ARRT associate degree requirements, CT competencies and CARE Bill.

Image Gently: The Critical Role of the Radiologic Technologist in Radiation Protection (TH03)*

Marilyn J. Goske, M.D., Silverman Chair for Radiology Education, Staff Radiologist

Cincinnati Children's Hospital Medical Center

Image Gently, Alliance Chair

The Image Gently campaign is an education, awareness and advocacy campaign to promote radiation protection for children undergoing medical imaging. Formed in 2007, the Alliance for Radiation Safety in Pediatric Imaging, which sponsors the campaign, is made up of over 50 medical societies and agencies that work toward this goal. Since its inception, the triad of radiologic technologist, medical physicist and radiologist have worked together to provide straightforward education tools and materials in order to achieve its mission. This talk will review the Image Gently campaign and discuss educational materials available to technologists. We will also review the important role the radiologic technologist has in lowering dose for a broad spectrum of imaging studies. The importance of medical literacy for parents will be discussed and we will review the information related to risk from radiologic procedures and how to discuss this complex topics with parents.

Wireless DR: The Next Evolutionary Step in Projection Radiography (TH04)*

Martin S. Pesce, RT, DR Application Engineer

Carestream Health, Inc

This course presents an overview of wireless DR technology in relationship to prior technologies including film and computed radiography. It is designed to provide the audience with an appreciation of the technology, functionality, and usability of such a device in today's work environment.

FRIDAY

What's Coming Our Way—Or Is It Already Here? (FR01)

Donna Thaler Long, MSM, RT(R)(M)(QM), FASRT, Program Director

Ball State University/Clarian Health--Methodist Hospital Radiography Program
American Society of Radiologic Technologists, Speaker of the House

Technology in the medical arena is changing at an unprecedented, rapid pace. This lecture will provide some insight into future health policy trends, equipment and challenges facing radiologic technologists.

Student Clinical Documentation: 90% Reduction in Paperwork Clinical Education Tracking using PDAs (Personal Digital Assistants) (FR02A)

Sharon W. Wu, MA, R.T.(R), Program Director

Amanda M. Boye, MS, R.T.(R), Clinical Coordinator

Henry Ford Community College, Dearborn, MI

This course presents an overview of the implementation of a paperless, digital system for students' clinical documentation including time and attendance, evaluation forms, daily clinical logs and competency tests. The Henry Ford Community College Radiographer Program rolled out digital clinical documentation in Fall 2008. Overviews of hardware, software, cost, IT support needed, strengths, challenges and our recommendations will be presented.

Practical Applications of Spine Radiography & Image Analysis (FR02B)*

Heather Moore, M.Ed., R.T.(R), Assistant Professor

University of Cincinnati, Raymond Walters College

This session will present an overview of radiographic positioning of the spine including anatomy, positioning, tube/image receptor alignment, effective patient care techniques, radiation protection practices, and basic radiographic image analysis

Alternative Career Pathways for RTs (FR02C)

Jonathan Mazal, BSRT(R)(MR)

This presentation is on the various professional pathways that branch from primary careers in radiologic technology. The presentation includes: Listing of available career advancement pathways; job descriptions and responsibilities; educational and extra-curricular (i.e. experience) requirements for job attainment; national and state salary averages; current job trends, position benefits and challenges, and controlling variables. The professional pathways to be explored include: dual specializations (PET-CT/MR, 3D lab, clinical safety), varying environments (travel, classroom, research facility, applications), clinical and non-clinical advancement.

Enhancing the Radiologic Sciences Classroom and Strengthening Peer Instruction with the Use of Student Response Systems (Clickers)(FR03A)

Jacklynn Darling, M.S., M.A. RT (R) (M) ARRT

Associate Professor of Radiologic Sciences

Morehead State University

This session will actively engage all participants/educators in an interactive presentation on the use of Student Response Systems (clickers) in the classroom. I will provide through the support of iclicker, the clickers for this presentation. The presentation will provide methods to engage students with the use of clickers, to assess students with clickers, describe the taxonomy of

clicker questions, discuss teaching choices as well as technical and logistic choices necessary for the classroom. A discussion of “Best Practice Tips” as well as the Peer Instruction will also be presented.

How to Beat Test Anxiety (FR03B)

Gloria Albrecht, MS, RT(R), Program Director
School of Diagnostic Imaging at the Cleveland Clinic

This course will discuss issues related to test anxiety. Test anxiety can cause poor performance, decrease a students' self esteem, and increase defensiveness and negativity. We will review the signs & symptoms of test anxiety and tips on how to control it. We will also discuss how general preparation before a test can build confidence and decrease anxiety and what to do if you find yourself becoming increasingly anxious during a test.

Complimentary and Alternative Medicine (FR03C)

Valerie V. Rowland, MS, R.T. (R), Assistant Professor and Chair of Allied Health
Northern Kentucky University

The use of complimentary and alternative medicine is not well understood even though it is finding credibility and use in the world of traditional medicine. Some of the challenges with acceptance in traditional practice are lack of awareness, lack of qualified practitioners, reimbursement issues due to the lack of research on efficacy and effectiveness, and the openness and courage to embrace the unknown and unfamiliar. The catalyst for change is overcoming fear through knowledge that breaks the unfounded myths of the unknown creating new options for healing and wellness.

If I Only Knew: Experiences from the Trenches! (FR04A)

Denise E. Moore, MS, RT(R), Professor Emeritus
Sinclair Community College

Like most health care educators, teachers typically begin academic careers with no prior instruction on teaching and, as a result, often make almost every possible blunder; yet, students learn in spite of us. Teaching experiences and stumblings, both serious and funny, have helped educators mature along the way. This session includes small and large group discussion on the participant’s most memorable mistake as an educator. Attendees should come prepared to share serious and funny mistakes and important lessons learned along the journey.

Resume Building and Interviewing Skills (FR04B)

Tresha Lewis, Career Development Specialist
University of Cincinnati, Raymond Walters College

Learn how to make your resume represent you the best. Get information on what should go into your resume and how to make your resume stand out from the rest. You even get sample resumes to use as guides when creating your resume. Also learn how to prepare for an interview, present yourself effectively and handle difficult questions.

Food...Mood, Discover the Connection (FR04C)

Cynthia Stegeman, EdD, RDH, RD, CDE

Associate Professor of Dental Hygiene

University of Cincinnati, Raymond Walters College

Food choices have an impact on the direction of your day. This program is designed to guide you with discovering foods you enjoy that can help enhance mood and alertness, reduce stress and anxiety, and provide optimal health and brain function. The evidence-based information will be realistic, applicable, and affordable. Apply the suggestions and quickly notice changes in your outlook, effectiveness, and production.

Understanding the 2011 Standards for an Accredited Educational Program (FR05A)

Leslie F. Winter, M.S., R.T.(R), Chief Executive Officer

Joint Review Committee on Education in Radiologic Technology

This presentation will provide participants with an overview of the newly adopted Standards for an Accredited Educational Program in Radiography, Radiation Therapy, Magnetic Resonance, and Medical Dosimetry that become effective January 2011. Explanation and rationale will focus on the new format of the Standards, as well as, the new and revised Objectives.

Survival Skills for the Radiographer in the OR (FR05C)

Susan Willin-Mulay, RN, MSN / MBA, CNOR, Professor, Department Chair, Surgical Technology
Sinclair Community College

This presentation emphasizes the basic skills needed for Radiographers to successfully maneuver within the Operating Room. It incorporates the principles of sterile technique, and introduces unique teaching and learning concepts to guide new Radiological Technology graduates, preceptors, and students in their practice of radiological techniques in the Operating Room. It is designed to give those working in a sterile surgical environment the tools and knowledge to complete radiological procedures safely and to be an integral part of safe patient care.

Hybrid Course Design: The Beginning, The Middle, and The End (FR06A)

Julie Gill, Ph.D., RT(R)(QM) and Heather Moore, M.Ed., RT(R)

This session will focus on syllabus design, discussion usage, assignment development, web tools integration, and grade calculation.

Radiation Protection – The Continuous Evolution of the Technologists Responsibility (FR06B)*

Jacklynn Darling, M.S., M.A. RT (R) (M) ARRT

Associate Professor of Radiologic Sciences

Morehead State University

This presentation will review the continuous evolution of radiation protection. The historical dates and events will be outlined. A discussion of terminology, units of radiation measurement, monitoring and radiation detection, background radiation, interaction of atoms to radiation exposure, legal and ethical responsibilities, patient protection devices, personnel protection and fluoro considerations.

Strategic Planning and Professionalism: How to get where you want to go (FR06C)

Linnea Hopewell, M.Ed, R.T. (R)(M)(QM) & Sharon Keegan, M.Ed, R.T.(R)

This presentation provides an overview of the actions and strategies for the Radiology community to pursue to advance the Radiology profession.

Law and Ethics for Radiography: What Does it Mean to You? (FR07A)

Julianna R. Bailey, BSRS, RT (R)

This lecture discusses the American Registry of Radiologic Technologists Code of Ethics for Radiographers. Each of the ten ethics is examined individually. Basic medico-legal terms are defined and reviewed. Ethical scenarios are presented, debated and resolved through audience participation.

COPD—Baby You Take My Breath Away! (FR10)

Anthony T. Kramer, RN

This course will present assessment, diagnosis (field), and management of the patient who presents with Chronic Obstructive Pulmonary Disease. Emphasis will be made on the differentiation between, emphysema, chronic bronchitis and asthma.

SATURDAY

Do You Understand? Communication Failures, Barriers and Challenges (SA01)

Trina L. Koscielicki, M.Ed.RT(R) & Diane H. Gronefeld, M.Ed., RT(R)(M)

Northern Kentucky University

Communication is a critical element of safe, quality patient care. Health care practitioners are challenged with communicating effectively with patients of varying circumstances. Additionally, the digital era has resulted in unique challenges regarding electronic communication. This presentation examines several key challenges to effective communication, such as culture, physical disability, and literacy, and also discusses health care practitioners' responsibilities. By increasing awareness of potential communication failures, barriers to quality patient care can be avoided.

Current Breast Cancer Treatment Options (SA03)

Carolyn Hollan, M.S., R.T.(T), Associate Professor, Program Director, Radiation Therapy & Ashley Hollan, BRST, R.T.(T)

University of Cincinnati, Raymond Walters College

The presenters will share current research on new breast cancer treatments in surgery, chemotherapy and others with a focus on the newest innovations in radiation therapy.

3D Post- Processing: Techniques and Applications (SA04)

Rhonda Strunk R.T. (R)(CT)

This presentation will describe what can be accomplished in a 3D lab and showcase what is available with 3D post-processing. There are a variety of workstations that are available with an even larger variety of specific software to enhance the CT data sets. This presentation will illustrate basic post-processing techniques such as MPR/MIP, to more complex processing

utilizing dual energy scans and stress brain perfusion scans. I will demonstrate why post-processing is no longer an option, but a requirement for many CT/MR studies.

Imaging: The Cornerstone of Radiation Therapy (SA05)

Leigh Kestranek, B.S. R.T. (T), CMD

Bloomington Hospital, Bloomington, IN

Imaging plays a critical role in radiation therapy. Recent advances in technology have allowed for better fusion of CT, PET, and MRI scans. Radiation therapy uses these studies to target tumors and avoid the patient's normal, critical structures. Most of the technologists who perform a study for a radiation therapy patient are somehow assisting in the patient's diagnosis or treatment and some may not understand precisely what happens to that study once it leaves their hands. This lecture will address how imaging is used to target, plan and deliver a radiation therapy treatment.

The Improbable is Very Probable (SA06)

Kevin Rush, MHA, R.T. (R) (T), Administrative Director, Radiation Oncology Centers

Bloomington Hospital & Healthcare System, Bloomington, IN

In previous lectures, we have discussed the idea of technology and its advancements and the consequences they bring. The system's approach allowed us to view these consequences and seek ways to reduce or eliminate the negative consequences. The next step in this process is to consider that which is inconsiderable: the highly improbable event. All of us spend time considering the possible outcomes of each procedure we perform which leads us to consider only the specifics when we should be focused on generalities. We spend time concentrating on the things we already know and fail to take into consideration the things we don't know. This lecture will focus on taking a step back from the specifics and focus on the generalities and the things we don't know in an effort to improve our practices and procedures and prevent the 'unknown and unknowable' from happening.

Breast Imaging: Mammography the Gold Standard? (SA07)

Cyndi Y. Gibbs, M. A., R. T. (R)(M)(CT)(MR) ARRT

According to the American Cancer Society, breast cancer is the most common cancer in the United States (US), other than skin cancer. It is the second leading cause of cancer mortality in women, after carcinoma of the lung. With the alarming number of women affected by this disease, it is crucial that an early diagnosis be made. Currently, the "gold" standard for imaging the breast is mammography, with ultrasound and magnetic resonance (MR) serving as adjunct modalities. This course will provide the participant with knowledge of medical imaging in the diagnosis and treatment of breast cancer; determining the best imaging option.. Physical signs and symptoms of breast cancer will be discussed. The application of medical imaging in the diagnosis of the disease will be identified. In addition, the participant will be able to discuss the application and significance of complimentary breast imaging techniques, providing the physician with better visualization of dense breast tissue. The speaker will also present the results of a research study identifying magnetic resonances' imaging application in breast imaging.

CT Imaging: From Protocols to Pathology (SA08)

Emma Palmer, B.S.R.T.(R)(CT) and Nikki Lyons, B.S.R.T.(R)(CT)

The content of this course will demonstrate CT cases that illustrate interesting pathologic and anatomic cases. The course will showcase different sections of the body and illustrate the importance of CT in diagnosing and treating patients. The course will also discuss technical parameters and protocols. While primarily discussing CT, we will also compare other imaging modalities and showcase how imaging can partner in the diagnosis and treatment of patients.

SUNDAY

I'm an RA, Sort of Like a PA, Just In Radiology (SU01)

Ross Klausing, MS, RRA RT(R)(T) Registered Radiologist Assistant

The University Hospital of Cincinnati

This presentation will revolve around the experience of a recent radiologist assistant graduate. Topics will include his radiography background, RA training, and obstacles of this evolving field. The presentation will also include insight into the day to day experiences of a working RA.

Basics of MRI Physics (SU02)

Barry Southers, BRST, RT(R)(MR), Instructor, MRI Program Director

University of Cincinnati, College of Allied Health Sciences

Magnetic Resonance Imaging (MRI) is an imaging technique that uses a powerful magnet and magnetic fields to help produce highly-detailed images of the body. There is a temporary alteration of the patient's hydrogen protons found within the body, by using the magnetic field to "align" these protons with the magnetic field, and to use the differences between the different types of tissues within the body to create visual contrast differences on the resultant images. This lecture will discuss the basic principles of MRI physics, from basic proton/magnet interaction to producing diagnostic images.

Principles and Practices of Functional MRI (SU03)

Barry Southers, BRST, RT(R)(MR), Instructor, MRI Program Director

University of Cincinnati, College of Allied Health Sciences

Functional Magnetic Resonance Imaging (MRI) is a cutting-edge magnetic resonance imaging technique that can measure subtle hemodynamic changes within the brain of a patient or research volunteer while performing an array of tasks or viewing a visual computer paradigm. This information can then be used by researchers and physicians to further understand how certain regions of the brain within certain patients and/or populations, as well as the relationship between different regions of the brain. This lecture will focus on the principles of functional MRI and its current practices within the imaging community.

*Courses marked with the asterisk may be appropriate for GXMO's upon approval by the ODH.