

# ASSOCIATED SCIENCES

## **104<sup>TH</sup> Scientific Assembly and Annual Meeting**

Radiological Society of North America  
McCormick Place, Chicago

**November 25–30**

Meeting.RSNA.org #RSNA18

**RSNA<sup>®</sup> 2018**  
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## Registration Information

Registration is required to attend the Associated Sciences programs at RSNA 2018. Register by October 26 to receive the discounted registration fee. Registration, housing, and general meeting information can be found at [RSNA.org/Register](http://RSNA.org/Register). RSNA shuttle bus service from contracted hotels to McCormick Place will be available beginning at 10:30 am on Saturday, November 24.

## Sponsoring Organizations

AHRA: The Association for Medical Imaging Management

American Institute of Architects–Academy of Architecture for Health (AIA-AAH)

American Society of Radiologic Technologists (ASRT)

Association of Educators in Imaging and Radiologic Sciences, Inc. (AEIRS)

Association of Vascular and Interventional Radiographers (AVIR)

Canadian Association of Medical Radiation Technologists (CAMRT)

The College of Radiographers (CoR)

International Society of Radiographers and Radiological Technologists (ISRRT)

Radiology Business Management Association (RBMA)

SMRT – Society for MR Radiographers & Technologists

Society of Nuclear Medicine and Molecular Imaging – Technologist Section (SNMMI-TS)

## Associated Sciences Consortium Chairs

Patricia A. Miller, MD . . . . .	2017–Present
Denise D. Collins, MD . . . . .	2014–2016
Joy J. Renner, MA, RT(R). . . . .	2010–2013
Edward I. Bluth, MD . . . . .	2007–2009
Jordan B. Renner, MD . . . . .	2004–2006
Paul A. Larson, MD . . . . .	2001–2003
Samuel L. Hissong, MD . . . . .	1998–2000
Claire E. Bender, MD . . . . .	1995–1997
Richard S. Colvin, MD . . . . .	1992–1994
Arvin E. Robinson, MD . . . . .	1988–1991
Thomas T. Thompson, MD . . . . .	1984–1987

## Associated Sciences Consortium Coordinators

Steven P. DeColle (CAMRT) . . . . .	2016–Present
Susan Crowley, BAppSC(MI), MRT(R), MA Ed (CAMRT) . . . . .	2012–2015
Morris A. Stein (AIA-AAH) . . . . .	2009–2011
Barbara A. Whitefield (ASRT) . . . . .	2006–2008
Chet Szerlag (SROA) . . . . .	2003–2005
JoAnn Belanger (ARIN, formerly ARNA) . . . . .	1999–2002
Eugene D. Frank (AEIRS, formerly AERS) . . . . .	1996–1998
Sue Weiss (SNMMI-TS) . . . . .	1993–1995
Arlene McKenna Adler (AEIRS, formerly AERS) . . . . .	1990–1992
Christopher E. Pickwick (AHRA) . . . . .	1987–1989
Kathryn D. Canny (RBMA) . . . . .	1984–1986
Marilyn Fay (ASRT) . . . . .	1982–1983
James B. Conway (AHRA) . . . . .	1980–1981

## AHRA: The Association for Medical Imaging Management

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AHRA: The Association for Medical Imaging Management is the professional organization representing management at all levels of hospital imaging departments, freestanding imaging centers, and group practices. Founded in 1973, AHRA's 5,000+ members reach across the country and around the world. AHRA offers a complete slate of professional development programs including a comprehensive selection of educational conferences and seminars, networking opportunities, award-winning publications, and the Certified Radiology Administrator (CRA) credential.

Driven by members' needs, AHRA is dedicated to delivering products and services that enable medical imaging professionals to accomplish goals in areas such as leadership development, financial outcomes, quality of patient care and clinical outcomes, and workplace and patient safety. Members are provided dozens of ways to earn CE credit on topics as diverse as human resources, budgeting, and technology through multiple platforms including the AHRA Online Institute, AHRA's peer-reviewed *Radiology Management* journal, and the AHRA Annual Meeting ([www.ahra.org/annualmeeting](http://www.ahra.org/annualmeeting)).

AHRA is a resource and catalyst for the development of professional leadership in medical imaging management.

## American Institute of Architects Academy of Architecture for Health

1735 New York Ave, NW

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The American Institute of Architects–Academy of Architecture for Health (AIA–AAH) strives to improve the quality of the design, function, and construction of healthcare facilities. The academy works toward these goals through the education of architects and clients, response to regulatory issues, production of technical information, and promotion of the value of architectural services and design excellence to the healthcare industry.

## American Society of Radiologic Technologists

15000 Central Avenue SE  
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The mission of the American Society of Radiologic Technologists (ASRT) is to advance and elevate the medical imaging and radiation therapy profession and to enhance the quality and safety of patient care. ASRT is the world's largest radiologic science organization and provides its members with the resources and tools they need to deliver excellent patient care.

ASRT monitors legislation and regulations that affect the profession; develops educational curricula; and promotes, establishes and defends professional and practice standards for medical imaging technologists and radiation therapists.

In addition, the association produces, reviews and tracks continuing education activities for radiologic technologists. It publishes two peer-reviewed journals, *Radiologic Technology* and *Radiation Therapist*, and a member newsmagazine, *ASRT Scanner*. It also offers three continuing education conferences each year — the Educational Symposium, which takes place ahead of the ASRT governance meeting; the Radiation Therapy Conference, held in conjunction with the annual meeting of the American Society for Radiation Oncology; and the ASRT@RSNA meeting, which is coordinated with the Radiological Society of North America meeting. ASRT offers more than 400 online educational courses that cover each discipline in medical imaging and radiation therapy, patient care and radiation safety principles.

ASRT is governed by an eight-member Board of Directors and a House of Delegates, and it has affiliate relationships with 54 state or local societies. Local affiliated societies operate independently of the national organization, but ASRT provides them with assistance and guidance.

## Association of Educators in Imaging and Radiologic Sciences, Inc.

526 Kingwood Drive #412  
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AEIRS' vision is to be the premier organization that fosters growth and advancement of educators to improve medical imaging and radiologic sciences education.

The mission of AEIRS is to strive to achieve excellence in all aspects of education leadership by facilitating the exchange of scholarly ideas, recognizing and sharing expertise, and encouraging research through educational conferences, publications, and collaborative networks.

Members receive the *Spectrum* newsletter twice a year, the Radiologic Science & Education journal which is a referred scholarly journal published three times a year. Members have opportunities to apply to be a primary speaker or poster presenter at a national annual meeting, access to past publications, and online educator resources.

Founded in 1967, AEIRS is incorporated and governed by an elected board of directors.

## Association of Vascular and Interventional Radiographers

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Phone: 1-571-252-7174  
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The Association of Vascular and Interventional Radiographers (AVIR) is a national organization of radiologic technologists, nurses, and allied healthcare professionals. AVIR's mission is to advance the professional education of its members and promote their profession throughout the medical community. AVIR offers extensive membership benefits and educational opportunities.

The AVIR annual meeting provides continuing education to member and nonmember attendees. Additional credits are offered only to members through the Directed Reading program.

The AVIR website, [www.avir.org](http://www.avir.org), provides a career center and forum for the exchange of ideas. The quarterly *Interventional Informer* newsletter keeps members up to date on AVIR programs and industry issues.

To provide venues for earning CE credits closer to home, AVIR has more than 20 local chapters across the U.S. that hold meetings and seminars.

Through various liaisons, AVIR participates in the advancement of industry standards and legislation, including the Consumer Assurance of Radiologic Excellence (CARE) bill. Active memberships are available to vascular or interventional radiographers who reside in the U.S. or Canada. Active members must be ARRT®-registered or the Canadian equivalent. Radiographers who reside outside of the U.S. or Canada can become international members. Associate memberships are available to nurses and corporate representatives, and student memberships are available. AVIR is on Facebook. The link to join is [www.facebook.com/groups/AVIR1](http://www.facebook.com/groups/AVIR1).

## Canadian Association of Medical Radiation Technologists

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The Canadian Association of Medical Radiation Technologists (CAMRT) is the national professional association and certifying body for radiological, nuclear medicine and magnetic resonance imaging technologists and radiation therapists. CAMRT provides leadership on standards for entry-level education and offers a suite of programs and services that advance the profession and the health of Canadians. These include certification, continuing professional development opportunities, publication of a journal, strengthening professional practice, best practice guidelines as well as advocacy to promote the effective contribution of MRTs in Canadian health system discussions and decisions. Founded in 1942, the CAMRT today represents over 12,000 members. For further information, please visit the CAMRT website at [www.camrt.ca](http://www.camrt.ca).

## The College of Radiographers

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The College of Radiographers (CoR) is the educational subsidiary of the Society of Radiographers, the professional association for all members of the radiography workforce in the UK. Founded in 1920, the Society of Radiographers has developed an international reputation for the progressive professionalism within clinical imaging and radiation therapy. The Society of Radiographers and the College of Radiographers are two separate companies operating together to provide service and support for those involved in radiography. They comprise the professional body and trade association for radiographers and associated professionals and practitioners.

CoR collaborates closely with radiology and medical physics partners in promoting and developing the highest standards of imaging and radiation therapy practice and has close links with other health care professionals and with radiography bodies worldwide.

CoR promotes and supports professional development for all members, encourages the development and publication of research work in radiography, and is the primary contact for government health departments in the UK for policy and professional practice guidance. Their publications include the international peer-reviewed journal *Radiography*, the monthly professional practice and CPD resource *Imaging and Therapy Practice*, the monthly news magazine *Synergy News*, and *Imaging and Oncology*, an annual collection of leading-edge articles.

Each member is provided with an e-portfolio, CPD NOW, to enable them to meet and manage their continuing professional development (CPD) requirements. They offer a broad range of continuing education resources, including seminars and conferences, e-learning programs, and professional guidance publications.

## International Society of Radiographers and Radiological Technologists

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# ISRRT

INTERNATIONAL  
SOCIETY OF  
RADIOGRAPHERS  
& RADIOLOGICAL  
TECHNOLOGISTS

The International Society of Radiographers and Radiological Technologists (ISRRT) is an organization comprising national radiographic societies from more than 80 countries representing more than 400,000 radiographers and radiologic technologists. ISRRT was formed in 1962 to act as a link between radiographers and radiologic technologists throughout the world.

The society is dedicated to improving the standards of practice in radiation medicine technology. It is a non-political, not-for-profit organization, and is not a trade union. It is a registered charitable body set up to support the development of radiation medicine technology worldwide.

ISRRT is recognized as the international representative of radiation medicine technology and is proud to be a nongovernmental organization (NGO) in Official Relations with the World Health Organization (WHO). Through this official relationship as an NGO with WHO, ISRRT also has association with the United Nations and works with other international organizations such as the International Society of Radiology (ISR) and the European Society of Radiology (ESR), and has official observer status with the International Atomic Energy Authority (IAEA). The society is divided into three regions: The Americas, Europe/Africa, and Asia/Australia. The society encourages the exchange of information and assists developing countries in forming their own professional societies. It hosts a world congress every 2 years.

ISRRT is administered by a board of management, which is elected by individual council members representing their national societies.

## Radiology Business Management Association

9990 Fairfax Boulevard, Suite 430

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The Radiology Business Management Association (RBMA) is the ultimate resource for radiology business management professionals—providing unparalleled access to specialized data and late-breaking legislative changes. A professional community connecting radiology business professionals nationwide, RBMA offers access to specific industry education through face-to-face meetings, online courses, and webinars. RBMA keeps members on top of federal regulations and breaking legislative news through *The Washington Insider* and timely eAlerts. The bimonthly RBMA Bulletin provides pertinent industry articles on leadership, financial management, governance, human resources, information management, operations, quality, compliance and risk management, and marketing and business development. In addition, Members can quickly and easily find immediate actionable feedback and solutions by connecting with colleagues through online forums.

In 2019, RBMA will host a joint seminar with the ACR again—the ACR-RBMA Practice Leaders Forum will be held Jan. 11–13, 2019, at the Hyatt Regency Houston in Houston, Texas; PaRADigm 2019 will be held April 14–17, 2019, at The Broadmoor in Colorado Springs, Colo.; and SPARK, RBMA's marketing seminar, will be held June 2–5, 2019, in Miami Beach, Florida. Check our website for current programming.

## SMRT – Society for MR Radiographers & Technologists

2300 Clayton Road, Suite 620

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[www.smrt.org](http://www.smrt.org)



The Society for MR Radiographers & Technologists (SMRT), a section of the International Society for Magnetic Resonance in Medicine (ISMRM) was established in 1991. The Society for MR Radiographers & Technologists (SMRT) strives to be the leading resource for the global MR radiographer and technologist community by providing education, professional advice, and support for magnetic resonance (MR) technologists and radiographers globally. The mission of the SMRT is to advance global education

in the field of magnetic resonance. As an organization, we are committed to promoting communication and the dissemination of cutting-edge MR developments.

#### MEMBERSHIP BENEFITS INCLUDE:

- **Unlimited Learning:** Earn as many CE credits as you want per year through our Home Studies courses
- **Credit Tracking:** We Track & Transfer your SMRT credits to the AART
- **Discounted Registration Rates:** Save on Annual Meetings, Regional Meetings and ISMRM Workshops
- **Networking Opportunities:** Interact with the global MR Community through SMRT Chapters and/or ISMRM Study Groups & Chapters
- **Career Support:** Get and keep the job you want
- **Financial Support:** Become eligible for Scholarships and Grants
- **Access to Industry News:** Stay current with the leading industry MR journals: Journal of Magnetic Resonance Imaging (JMIR) and Magnetic Resonance in Medicine (MRM)
- **Discounts on Purchases:** Receive automatic Membership in the Member Affinity Discount Program for savings on goods and services

The SMRT is recognized by the American Registry of Radiologic Technologists (ARRT) as a Recognized Continuing Education Evaluation Mechanism (RCEEM), and acts as an accrediting body. Many SMRT educational programs are recognized as Continuing Professional Development (CPD) activities for the Australian Institute of Radiography (AIR), the New Zealand Institute of Medical Radiation Technology (NZIMRT), and the UK College of Radiographers (CPD Now). From entry-level students to all MR technologists/radiographers currently working in the field of MR, the SMRT is an invaluable resource for all MR professionals. As a member of the SMRT, you will have the opportunity to contribute to the challenging field of one of the most operator-dependent imaging modalities used in medicine today. Members join together to voice their opinions in matters that are important to the MR profession. Please visit the SMRT website for additional membership info at: [www.smrt.org](http://www.smrt.org).

## Society of Nuclear Medicine and Molecular Imaging – Technologist Section

1850 Samuel Morse Drive

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Established in the 1970s, the Society of Nuclear Medicine and Molecular Imaging – Technologists Section (SNMMI-TS) is designed to meet the needs of the nuclear medicine and molecular imaging technologist. The SNMMI-TS is constantly striving to make a difference in the way technologists and related professionals receive academic and continuing education as well as information concerning new procedures, technologies, and equipment. Research has been a vital part of SNMMI-TS activities for many years, as has monitoring federal regulations and influencing decisions that affect the practice of nuclear medicine.

In addition to providing discussion forums and publishing newsletters, books and the Journal of Nuclear Medicine Technology (JNMT), a quarterly, peer-reviewed journal, SNMMI-TS also sponsors international meetings and workshops designed to increase the competencies of nuclear medicine practitioners and to promote new scientific advances. The activities of the SNMMI-TS National Council of Representatives, volunteer committee members, and staff focus on improving the quality of care for the patients served by technologists around the world.

# Programs

*AMA PRA Category 1 Credits™: 1.25*

*ARRT Category A+ Credit: 1.50*

## MONDAY, NOV 26, 2018

### SPPH21

#### **1:30–2:45 PM**

Basic Physics Lecture for the RT: Dual Energy CT  
Applications in Radiation Therapy

Scott J. Emerson, MS, *Moderator*

Jessica Miller, PhD

# Refresher Courses

*AMA PRA Category 1 Credits™: 1.50*

*ARRT Category A+ Credit: 1.75*

## MONDAY, NOV 26, 2018

### MSAS21

#### **8:30–10:00 AM**

Evolving Imaging Methods for the Cancer Patient – Part 1  
(Interactive Session)

Kristen Welch, RT, *Moderator*

William A. Undie, PhD, RT, *Moderator*

**A: Advances in Liver Directed Therapy**

Michael C. Soulen, MD

**B: Combination Ablative Therapies**

Alexios Kelekis, MD, PhD

**C: Introduction to MR-Guided Focused Ultrasound**

Sharjeel Sabir, MD

### MSAS22

#### **10:30 AM–12:00 PM**

Evolving Imaging Methods for the Cancer Patient – Part 2  
(Interactive Session)

Nancy McDonald, MS, *Moderator*

William A. Undie, PhD, RT, *Moderator*

Bernie McKay, BS

Katie Tucker, BS

**MSAS23****1:30– 3:00 PM**

Global Initiatives and Relief Efforts (Interactive Session)

Catherine Gunn, BSc, MBA, RT, *Moderator*

**A: A Multidisciplinary Approach to Global Radiology Outreach: RAD-AID's Experience**

Karyn A. Ledbetter, MD

**B: Healthcare Aid in Africa: A Volunteer's Experience with Mercy Ships**

William Creene, RT

**MSAS24****3:30–5:00 PM**

Commitment to Safety: Providing Effective & Efficient Imaging Services (Interactive Session)

Craig St. George, MS, ARRT, RT, *Moderator*

Jody Erickson, BS, RT

Andre Brown, ARRT, MA

Andrew Bowman, MD, PhD

Adam Rubin, ARRT, RT

**TUESDAY, NOV 27, 2018****MSAS31****8:30–10:00 AM**

Radiology Safety: Effective Strategies in Patient Care (Interactive Session)

Kendra Huber, RT, BS, *Moderator*

JoAnn Balderos-Mason, PhD, RT, *Moderator*

**A: Radiation Safety and Protection in Diagnostic Imaging**

Steffen Sammet, MD, PhD

**B: MRI Contrast and Protocol Optimization**

Matt Rederer, BS, RT

**C: MRI Safety Made Complicated and Dangerous**

Mark A. Smith, MS, ARRT

**MSAS32****10:30 AM–12:00 PM**

Understanding the Critical Relationships of Quality, Experience, and Performance for Effective Imaging Services (Interactive Session)

Morris A. Stein, BArch, *Moderator*

William A. Undie, PhD, RT, *Moderator*

**A: Planning and Physical Implications through Data, Modeling, and Vision**

Carlos L. Amato

**B: The Changing World of How Clinical Support Systems Impact Quality and Delivery of Care**

Melody W. Mulaik

**C: Lessons Learned in Adopting Clinical Decision Support Systems**

Ernesto A. Cerdena, PhD

**MSAS33****1:30–3:00 PM**

Building the Management “A Team” (Interactive Session)

Patricia Kroken, *Moderator*

**A: Managing at the Tip of the Spear: Radiology Practices Face Turbulent Times**

Robert Still

**B: Partnering with Your Administrator to Lead Enterprise Initiatives: How to Be at the Table and Not on the Menu**

Chris Tomlinson

**MSAS34****3:30–5:00 PM**

The Importance of Radiographer Led Research: Growing the Evidence Base (Interactive Session)

Charlotte Beardmore, MBA, *Moderator*

Dimitrios Katsifarakis, MSc, *Moderator*

**A: The Impact of Radiographer Led Research: A Case Study from the UK**

Louise Harding

Paula Evans

**B: Shifting the Paradigm of Medical Imaging: How Imaging Can Drive Innovations in Patient Care (A Canadian Experience)**

Paul Cornacchione, BSc

## Disclosure Statements

**Michael Christopher Soulen, MD**

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Consultant, Bayer AG

**Alexios Kelekis, MD, PhD**

Speaker, Mindray Medical Systems Corporation

**Sharjeel Sabir, MD**

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**Bernie McKay, BS**

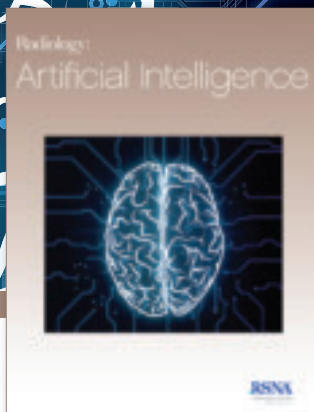
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**Matt Rederer, BS, RT**

CEO, RITE Advantage, LLC



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The top scientific paper as selected by the Scientific Program Committee will earn this prestigious award.

#### **The RSNA Trainee Research Prize: \$1,000**

Up to 48 medical students, residents or fellows who submit expanded abstracts of their 2018 RSNA scientific presentation may receive a \$1,000 prize and certificate.

### VISIT [RSNA.ORG/ABSTRACTS](http://RSNA.ORG/ABSTRACTS) FOR COMPLETE GUIDELINES.

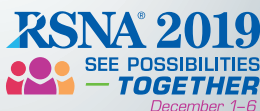
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beginning January 2019 at [RSNA.org/Abstracts](http://RSNA.org/Abstracts) through Wednesday, April 10, 2019 NOON CT.

#### **Questions?**

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A close-up photograph of a hand gently holding a small green seedling with three leaves, growing out of dark, rich soil. The background is a soft, out-of-focus light green and yellow, suggesting a bright, natural environment. The image is partially covered by a blue gradient at the bottom where the text is located.

## *Together, we are* **SEEDING THE FUTURE OF RADIOLOGY**

For every \$1 granted by the R&E Foundation, 50 additional dollars in subsequent funding are awarded from other sources like the NIH.

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