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**#ASRTRTC19**

**Here's Your Hashtag!**

Share the fun on Instagram, Facebook and Twitter. *Page 5*

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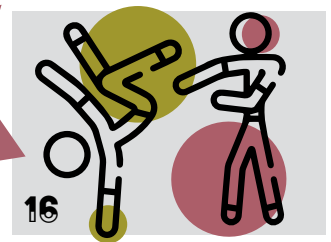
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**EXTRA!  
EXTRA!  
EXHIBITOR  
NEWS**  
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17





**Sal Martino,**  
Ed.D., R.T.(R), FASRT,  
FASAE, CAE  
CEO and Executive  
Director American  
Society of Radiologic  
Technologists

## ASRT IS COMMITTED to the Support and Development of Radiation Therapy Professionals

Welcome to Chicago and the 43rd ASRT Radiation Therapy Conference. I'm thrilled you've come to the Windy City to participate in this exceptional meeting. As the world's largest radiologic science organization, ASRT is committed to the support and development of radiation therapists and medical dosimetrists. Your work to provide diverse patient populations with high-quality care motivates us to provide you with the best service possible.

### Radiation Therapists

First, this conference and its more than 40-year history is itself a testament to our profound responsibility to the ongoing support and advancement of the profession. Thousands of radiation therapists and medical dosimetrists have attended the conference since it began in 1976. Over the ensuing decades, it has emerged as the premier event for radiation therapy professionals. Known for its wide range of cutting-edge educational presentations, the conference is an essential experience for professionals who are committed to lifelong learning and career development.

### Radiation Therapist Journal

Our commitment and support is evident in our award-winning publications. This dedication is unmistakable in ASRT's only discipline-specific journal, *Radiation Therapist*.

For more than 25 years, ASRT has delivered this respected, biannual journal to radiation therapy professionals who care deeply about their work and their patients. Featuring peer-reviewed research,

continuing education articles and columns relevant to the advancement of radiation therapy professionals, it's the foremost scientific journal dedicated to research and workplace topics for radiation therapists and medical dosimetrists.

### Supporting You

The ASRT is an innovator in the field of continuing education with the world's largest offering of medical imaging and radiation therapy products. We're committed to providing radiation therapists with the most up-to-date online courses on the topics most valuable to their career advancement.

At the ASRT, we're very proud to stand shoulder to shoulder with more than 16,000 professional radiation therapists and medical dosimetrists. Together, our collective voice is strong.

*Please enjoy the conference  
and have a great time in Chicago!*



**Stephanie Johnston,**  
M.S.R.S., R.T.(R)(M)(BD)  
(BS), FASRT  
ASRT President

## Greetings from the PRESIDENT

Thanks for traveling to Chicago to attend the ASRT Radiation Therapy Conference. Whether you're here to expand your knowledge, find solutions to specific challenges or discover how to make yourself more valuable at work, I'm confident you'll find the events rewarding, challenging and fun.

One of the great things about this conference is it highlights the diversity of our profession. With nearly 1,000 radiation therapists on hand, the event underscores the wide range of personnel who care for diverse patient populations day in and day out. It's truly inspiring and I thank all of you for your hard work and dedication.

This year's continuing education courses and hands-on workshops are outstanding. They provide updates on treatment innovations, help you improve your workplace, offer insights into the evolving roles of radiation therapy and medical dosimetry, and much more.

While you're here, network with your peers, students and your counterparts who are attending the American Society for Radiation Oncology and the Society for Radiation Oncology Administrators meetings. In addition, don't forget to share your experience on social media. Use the hashtag **#ASRTRTC19** to post updates and follow the fun.

*Thanks for joining us and  
have a great conference!*



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# EXCITING Speakers, INSPIRING Topics

## Opening Session and General Sessions

On Sunday, Sept. 15, four sessions kick off the 43rd ASRT Radiation Therapy Conference. Join these experts as they share personal stories and discuss cancer survivorship, give updates on educating patients, responding to a natural disasters and protecting your mental health.



**Mack Dryden** leads the kickoff session with “**Laugh to the Top: A Hilarious Guide to Achieving Your Goals.**” Mack is a speaker, actor, comedian, karate champion and award-winning journalist in his home state of Mississippi. He has appeared in movies and on dozens of TV shows, including several appearances on “The Tonight Show.” A survivor of a stay in an African prison and two types of cancer, he has inspired people across the globe with his fascinating stories and hilarious delivery. Mack’s presentation will offer practical, proven techniques for setting, pursuing and achieving your professional and personal goals.



**Amy Heath, M.S., R.T.(T)**, is the educational director of the radiation therapy internship at University of Wisconsin Health and adjunct faculty for the radiation therapy program at University of Wisconsin, La Crosse. She served as the chairman of the Editorial Review Board for ASRT’s *Radiation Therapist* journal and continues to serve as a member. In her presentation, “**Evaluating and Updating the Patient Education Process,**” she’ll explore the topic of patient education material. How do you know it meets the health literacy standards and that patients are getting the information they need? Amy will answer these questions and more.



**Zachary Smith, M.B.A., R.T.(R)(T)**, has been a radiation therapist for more than 25 years. He’s the director of radiation oncology and respiratory care at Baton Rouge General Pennington Cancer Center. Zachary has given talks on cancer treatment, industry changes, genetic testing, palliative care and employee engagement. He has a Lean 6 Sigma Green Belt from General Electric and holds a master’s degree in health care administration. In his presentation, “**Using Emergency Charts to Communicate Vital Information in a Disaster,**” he’ll discuss how floods, fires, hurricanes and other natural disasters can displace patients and providers. Attendees will learn how to use disaster emergency charts to ensure that patients can restart and complete their therapy without significant delay.



**Timmerie Cohen, Ph.D., R.T.(R)(T), CMD**, serves as the clinical coordinator for the radiation therapy program at Virginia Commonwealth University and as director of clinical education for the Department of Radiation Sciences. She has served on numerous university committees. In Dr. Cohen’s presentation, “**Mental Health Matters,**” she’ll explain how radiation therapists’ mental health can impact their ability to deliver quality patient care. The lecture will focus on stress and how it can affect therapists’ personal and professional lives.

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# asrt SHUTTLE SCHEDULE

## What You Need to Know

This year, ASRT is proud to offer dedicated shuttle service between McCormick Place and the hotels offering ASRT's conference rate. Board an ASRT shuttle at Hyatt Regency Chicago's West Tower and about 20 minutes later (depending on traffic) you'll arrive at McCormick Place South

## Catching the Right Ride

ASTRO, the American Society For Radiation Oncology, shuttle buses will depart from the East Tower of the Hyatt Regency Chicago and drop its passengers off at McCormick Place West. If you board an ASTRO bus, you'll need to walk to McCormick Place South, and that might take some time. Be sure to look for the ASRT-designated shuttles.

Also, those who are staying at Radisson Blue Aqua Hotel should allow two or three minutes for the short walk to Hyatt Regency Chicago's West Tower.

Date and Time	Route	Frequency	Last Shuttle Departs
<b>Saturday, Sept. 14</b>			
9:30 a.m.-12:30 p.m.	Hyatt Regency Chicago → McCormick Place South	Every 20 minutes	4:30 p.m.
12:30-5:30 p.m.	McCormick Place South → Hyatt Regency Chicago	Every 20 minutes	5:30 p.m.
<b>Sunday, Sept. 15 &amp; Monday, Sept. 16</b>			
6:30-9:30 a.m.	Hyatt Regency Chicago → McCormick Place South	Every 15 minutes	4:30 p.m.
9:30 a.m.-3 p.m.	McCormick Place South → Hyatt Regency Chicago	Every 30 minutes*	
3-6 p.m.	McCormick Place South → Hyatt Regency Chicago	Every 15 minutes	6 p.m.
<b>Tuesday, Sept. 17</b>			
6:30-9:30 a.m.	Hyatt Regency Chicago → McCormick Place South	Every 15 minutes	1:30 p.m.
9:30 a.m.-12:30 p.m.	McCormick Place South → Hyatt Regency Chicago	Every 30 minutes*	
12:30-3 p.m.	McCormick Place South → Hyatt Regency Chicago	Every 15 minutes	3 p.m.

*\*On the hour and half hour*

*This information is subject to change, so please see the sign in the hotel lobby upon arrival for the most up-to-date information. If you have questions or need for a wheelchair-accessible ride, please call Kushner & Associates, 310-274-8819 Ext. 213.*

## Hashtags



**#ASRTRTC19**  
**#ASRTMember**  
**#OnlyAtASRT**

# KNOW YOUR #HASHTAGS

The right hashtags can weave together conversations, add meaning to your messages and help unite communities. Use these hashtags to connect and engage with other social media users at RTC.

### ◆ #ASRTRTC19

This is our primary event hashtag. Use it with all of your social media. Including the right hashtags will connect your posts to the broader conversation and increase the chance that someone interested in the event will engage with your post.

### ◆ #ASRTMember

Use this hashtag along with the other conference hashtags to show you're proud to be a member of the ASRT. This hashtag shows nonmembers what they're missing and the strength of a collective voice.

### ◆ #OnlyAtASRT

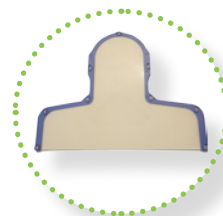
Save this tweet for special moments from the event. Discover a long-lost friend? Have a breakthrough insight at one of our presentations? This hashtag is perfect for moments like these. Combine with #ASRTRTC19 for even more impact!



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### Frequently Asked

## Continuing Education Credit Questions

**Q:** Are courses from the ASRT Radiation Therapy Conference approved for credit?

**A:** Almost all of the one-hour courses have been approved for American Registry of Radiologic Technologists Category A credit and Medical Dosimetrist Certification Board credit. However, it's best to check the ASRT Events app for up-to-date information.

**Q:** What is this 10-minute rule I've heard about?

**A:** The ARRT requires that you must be present and attentive for 50 minutes of every scheduled hour of a live CE activity. If you arrive late, leave early or slip out for a restroom break, that time is deducted from your attendance. Although speakers are instructed to speak for an hour, sometimes they finish early. If a course ends too soon, speak up! The question-and-answer period counts toward the 50-minute requirement.

**Q:** How do I get credit for the courses I attend?

**A:** The radio frequency identification tag in your badge holder tracks your educational sessions. As you walk through the classroom doors, the SmartGate records your attendance. To ensure you receive credit for the courses you attend, wear your badge in a visible location, stay for the entire presentation and leave through the same gates by which you entered the room. Please note that entrance or readmittance is not permitted without your badge.

**Q:** When will my credits from the ASRT Radiation Therapy Conference show up on my CE record?

**A:** Credits from the courses you attend will appear on your ASRT CE record within six weeks of the conference. We will send you an email confirmation when the credits are posted.

**Q:** Will I receive Category A CE credits if I attend American Society for Radiation Oncology courses?

**A:** No. The ASTRO educational program is not approved for Category A CE credits. However, the educational program of the ASRT Radiation Therapy Conference, held in conjunction with the ASTRO Annual Meeting, is approved for Category A CE credits.

**Q:** If I have two back-to-back classes in the same room, do I have to exit the room and re-enter to get the right credits?

**A:** No. The radio frequency identification tag system tracks when you enter and exit the room and matches that to the recorded course start and end time. However, you are welcome to leave between courses to take a break!

10

## Practical Tips

# TEN STRATEGIES

## To Make your Conference Count

Ace the Conference with These Practical Tips



- 1 Check the schedule.** Plan your day and give yourself plenty of time to arrive on time. Seating for educational sessions is available on a first-come, first-served basis.
- 2 Wear your ASRT badge.** Your badge holder has a unique radio frequency identification number to track your attendance. Be sure to exit through doors with radio frequency gates.
- 3 Be approachable and approach others.** Network during breaks and invite others to join you for dinner in the evenings.
- 4 Silence your cell phone.** If you must take a call, be considerate and exit the session if it's in progress.
- 5 Drink lots of water.** It's easy to forget to stay hydrated during a day of networking and sessions, so be sure to carry a bottle of water with you.
- 6 Use break time wisely.** Sessions start promptly, so ensure you have time to socialize, grab a snack or use the restroom before the break ends.
- 7 Take notes.** Jotting down tips, tricks and helpful resources makes it easy to share what you learn with colleagues back home and apply the information on the job.
- 8 Ask questions.** Asking a presenter questions can further your understanding of a topic and ensure your course lasts an hour so you receive full credit.
- 9 Explore.** You can discover exciting products and information in the ASRT and ASTRO exhibit halls.
- 10 Get the app.** Download the ASRT Events app on your mobile device to keep yourself up to date and organized.



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# PROGRAM AT A GLANCE

DATE	TIME	EVENT	ROOM
<b>Sunday, Sept. 15</b>	7-8 a.m.	ASRT-sponsored Morning Coffee	S100A
	7 a.m.-4 p.m.	ASRT Exhibits Open	S100A
	7 a.m.-4 p.m.	Registration and Tote Bag Pick-up	S100 Lobby
	8-11:50 a.m.	Opening Session and General Sessions*	S100BC
	11:50 a.m.-1:30 p.m.	Lunch on Own	
	1:30-2:30 p.m.	General Session*	S100BC
	2:45 p.m.	ARRT and JRCRT reports; Radiation Therapy Chapter, Medical Dosimetry Chapters, and Educators Meetings	S100BC
<b>Monday, Sept. 16</b>	7-8 a.m.	ASRT-sponsored Morning Coffee	S100A
	7 a.m.-4 p.m.	ASRT Exhibits Open	S100A
	7 a.m.-4 p.m.	Registration and Tote Bag Pick-up	S100 Lobby
	8-11:40 a.m.	Concurrent Sessions *	Various
	11:50 a.m.-1 p.m.	ASRT-Provided Lunch	S100BC
	1:10-4:50 p.m.	Concurrent Sessions *	Various
	7-8 a.m.	ASRT-sponsored Morning Coffee	S100A
<b>Tuesday, Sept. 17</b>	7-11:30 a.m.	ASRT Exhibits Open	S100A
	7-11:30 a.m.	Registration and Tote Bag Pick-up	S100 Lobby
	7:30 a.m.-1:45 p.m.	Concurrent Sessions*	Various

\*See Pages 20-25 for titles, descriptions and locations.



## Visit the ASRT & ASTRO Exhibit Halls

Here are a few reasons you should visit ASRT's exhibit hall and the ASTRO Innovation and Solution Showcase during RTC this year.

- ◆ ASRT's exhibitors represent radiologic science organizations, educational institutions, equipment and product manufacturers, and continuing education companies that support ASRT.
- ◆ ASRT's exhibit hall features technology, services and products from about two dozen companies.
- ◆ Astro's exhibit hall offers networking opportunities and the chance to see new technology and services.

ASRT's exhibit hall is in room S100A, and the hours are 7 a.m.-4 p.m. on Sunday and Monday, Sept. 15 and 16, and 7-11:30 a.m. on Tuesday, Sept. 17. To get to the ASTRO exhibit hall, go up to the third level and cross the sky bridge to the West Building to Halls F1 and F2. The ASTRO exhibit hall is open from 10 a.m.-5 p.m., Sunday to Tuesday, Sept. 15-17.

## ASRT's Events App

Access  
On the Go

ASRT's free app gives you course listings, speaker details and more — all available at your fingertips. Getting the app is easy. To get started, search for **"ASRT Events"** on the Apple App Store or Google Play Store, or visit <https://crowd.cc/rtc19> from a BlackBerry or Windows device or even a desktop computer. Download the app and you'll have access to the conference schedule, where you can build and customize your agenda.

### The ASRT Events app allows you to:

- ◆ Read about speakers and their courses
- ◆ Evaluate each course
- ◆ Learn about conference exhibitors
- ◆ Connect with other conference attendees
- ◆ Share your experiences on social media and send your conference photos directly to ASRT's social wall.

Looking for lunch ideas on Sunday? Tap the "Resources" icon on the app for a list of tasty options in the West Building of the convention center. Visit the ASTRO exhibit hall while you're there!

# Article Selected for *Prestigious Silverman Award*



**Cheryl S. Turner,**  
Ed.D., R.T.(R)(T)



**Kimberly Brown,**  
D.N.P., R.N., NEA-BC



**Robert D. Adams,**  
Ed.D., R.T.(R)(T), FASRT



**Melissa B. Jackowski,**  
Ed.D., R.T.(R)(M), FASRT



## Authors Recognized for Best Peer-reviewed Article in *Radiation Therapist*

Often shortened to just “the Silverman award,” it is a pinnacle achievement for those who publish scientific research in the field of radiation therapy. The full name of the prestigious honor is the *Radiation Therapist* Distinguished Author Award in Honor of Harold Silverman, and it recognizes the best peer-reviewed article published in the ASRT’s specialty journal each year. After a comprehensive review of every scholarly article published in *Radiation Therapist* during 2018, members of the journal’s Editorial Review Board identified their favorite.

**Cheryl S. Turner**, Ed.D., R.T.(R)(T); **Kimberly Brown**, D.N.P., R.N., NEA-BC; **Robert D. Adams**, Ed.D., R.T.(R)(T), CMD, FASRT; and **Melissa B. Jackowski**, Ed.D., R.T.(R)(M), FASRT, are the winners of the Silverman Award for their article “**How Do They Do It? Stress and Coping Among Radiation Therapists**,” which was published in the fall 2018 issue.

Dr. Turner contracts in the medical devices industry, conducts research and advocates on behalf of radiation therapists. Dr. Brown is associate professor for the School of Nursing at Liberty University. Dr. Adams is assistant professor for the University of North Carolina Department of Radiation Oncology, the program director for the UNC radiation

therapy and medical dosimetry education programs and a member of the UNC Healthcare Human Factors Engineering Division. Dr. Jackowski is a competency management development specialist for Siemens Healthineers, CX USA Education Services.

In an effort to better understand job-related stressors and coping mechanisms, the authors performed a qualitative study to explore the experiences of radiation therapists in select regional cancer centers. After individual interviews, online focus groups and personal journaling by the participants, they analyzed the data. Findings suggested that the radiation therapists experienced substantial stress at work, which they most often attributed to uncontrollable job situations.

In addition, radiation therapists struggled to apply coping methods that would alleviate the stress. The increased rate of burnout suggests that radiation therapists are unaware of coping strategies, reject these strategies or are unsure how to implement these strategies. The authors argued that allowing this situation to continue will ensure radiation therapists burn out in ever-higher numbers, risking their health and the quality of patient care.

The award is named in honor of radiation therapist Harold Silverman, an advocate for accreditation of radiation therapy educational programs. ASRT has published *Radiation Therapist* since 1992. The award was presented on June 21 during the ASRT Annual Governance and House of Delegates Meeting in Orlando.



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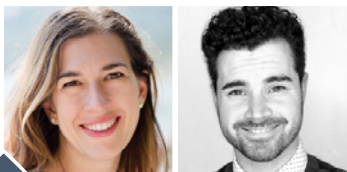
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# WORKSHOPS Sure to Inspire

In 2016, we introduced workshops to the line of ASRT Radiation Therapy Conference courses. Attendees overwhelmingly gave the workshops positive reviews, which made it easy for us to offer these hands-on opportunities in the successive years.



Eliza Larson, M.F.A., and Troy Mercier, M.F.A., present **“Dry Up: Dry Heat Ovens for Thermoplastic Mask Preparation.”** In 2014, the landmark study, “Risk of Patient Infection From Heating Appliances,” documented the risk of bacterial infection from water baths. Since then, dry heat ovens have become the new standard for thermoplastic mask preparation. Eliza and Troy will explore dry heat ovens and the best methods for mask preparation, as well as workflow adjustments. Attendees will have hands-on time to work with the ovens and explore how thermoplastics behave in dry heat. By the end of the session, you’ll be able to explain the similarities and differences between water baths and ovens in the clinical setting, identify workflow adjustments when switching to dry heat and gain hands-on experience using ovens for mask preparation.



Michelle Moniz, R.T.(R)(T), CMD, presents **“Advanced Support Cushion Molding Techniques for Patient Positioning.”** In this workshop, you’ll explore techniques for molding cushions for patient positioning to support the cervical spine for better reproducibility in head and neck treatments. In addition to exploring techniques for molding support cushions for the general population, the presenter also will show you how to use customized cushions for challenging positioning needs. You’ll also see how to give patients reproducible support and make the standard head cup more comfortable.



Hayley Petrarca, B.S., R.T.(T), and Joseph Rau, B.S., R.T.(T), present **“SGRT From Head to Toe.”** Get the details on the submillimetric patient setup abilities of AlignRT for multiple indications. Through the use of various immobilization devices, you will see demonstrations of recommended techniques and various treatment workflows. By the end of the session, you’ll be able to explain the recommended practice of immobilization device creation and use with surface-guided radiation therapy, describe efficient and accurate set-up and treatment workflows, and apply techniques for better patient care.

## WORKSHOP SCHEDULE ROOM S102BC

KLARITY WORKSHOP — **Dry Up: Dry Heat Ovens for Thermoplastic Mask Preparation**  
 Monday, Sept. 16 8-9 a.m.  
 10:40-11:40 a.m.

KLARITY WORKSHOP — **Advanced Support Cushion Molding Techniques for Patient Positioning**  
 Monday, Sept. 16 1:10-2:10 p.m.  
 3:50-4:50 p.m.

VISION RT WORKSHOP — **SGRT From Head to Toe**  
 Tuesday, Sept. 17 7:30-8:30 a.m.  
 10-11 a.m.

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To ensure you have a great experience, Chicago Concierge can point you to great restaurants, recommends fun experiences and offers exclusive discounts for restaurants, breweries and entertainment. Take advantage of these special offers just for ASRT Radiation Therapy Conference attendees and exhibitors.

### How it Works

Attendees can receive discounts, free appetizers and more at 19 establishments close to McCormick Place. Use the program for 15% off your bill when you sample beers at Motor Row Brewing, to score a free appetizer at Shaw's Crab House, to get 20% off your entire bill at Spin — a restaurant and bar with 20 Olympic-style ping pong tables — and much more.

To peruse the offerings and see how they work, just tap the Chicago Concierge icon on the ASRT Events app. Select ASRT Special Offers to find the complete list of participating establishments.



## COURSE EVALUATION

We Want to Hear From You

You can help us provide you with the best possible conference each year — and with the ASRT Events app, it's easier than ever.

### Here's how to evaluate each course:

- ◆ Launch the Events app.
- ◆ Select Schedule.
- ◆ Choose your course.
- ◆ Under Surveys, select RTC Course Evaluation.

You also have the opportunity to evaluate the entire conference. Check your email for details. The deadline for evaluations is Oct. 1.

*Thanks for sharing your thoughts with us!*



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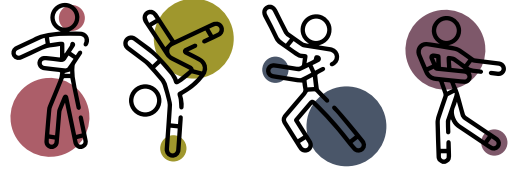


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# CHICAGO

S H U F F L E



The premier companies in radiation therapy are showcasing their latest products and services this week at RTC in exciting Chicago! The ASRT exhibit hall provides you with an opportunity to get to know some of our profession's best vendors and see the next wave of exciting technical advances in radiation therapy.

These radiologic science organizations, educational institutions, equipment and product manufacturers, and continuing education companies are here for two reasons: To support ASRT and for the opportunity to connect with committed practitioners like you! They're eager to find out about your workplace needs, answer questions and help make your job easier.

As an added bonus, while you visit exhibitors' booths, you'll be able to participate in our Chicago Shuffle Bingo Contest. Just like the 1985 Chicago Bears — the team that not only won the big game but also put out a classic rap song, "The Super Bowl Shuffle" — you're likely to come away a winner. You could go home with a fabulous prize, like an Apple Watch, an iPad Mini or Beats headphones. This year, Klarity donated dinner and two front-row tickets to a Second City comedy show on the night of Monday, Sept. 16, so you might even win dinner and a show!

## Chicago Shuffle Bingo Contest Instructions

It's really easy! Pick up a Chicago Shuffle Bingo Card at the table just inside the entrance to the exhibit hall and visit every exhibitor's booth. Then have each exhibitor stamp your card. When it's full, make sure you put your name on it and drop it off at the ASRT booth to be entered in our drawing

### Prize Drawings

Prize drawings will take place at the ASRT booth on **Monday, Sept 16 at 12:40 p.m.** & **Tuesday, Sept. 17 at 11:10 a.m.**  
*You must be present to win.*

**RELIEVE  
Minor Burns  
& Irritated Skin  
WITH BOIRON CALENDULA**

Boiron Calendula topicals combine the skin-healing properties of the Calendula officinalis flower with a cream or ointment to moisturize, soothe, and help heal irritated skin.<sup>1,2</sup> The paraben-free topicals do not contain artificial colors or fragrances.

**Visit our booth for more information and a FREE sample.**

**Web** BoironUSAhcp.com/ons | **Phone** 1.888.264.7668 | **Online Ordering** B2B.BoironUSA.com

<sup>1</sup>Chandran PK, Kuttan R. Effect of Calendula officinalis Flower Extract on Acute Phase Proteins, Antioxidant Defense mechanism and Granuloma Formation During Thermal Burns. *Journal of Clinical Biochemistry and Nutrition*, 2008; 43(2): 58-64.  
<sup>2</sup>Leach M.J. Calendula officinalis and wound healing: A systematic review. *Wounds*, 2008; 20(8): 1-7.

## INTERNATIONAL Speakers Exchange Award

Travel internationally and present your work in the radiologic sciences to a global audience.

- United Kingdom Imaging and Oncology Congress (UKIO)  
*Liverpool, England, June 1-3, 2020*
- CARO Annual Scientific Meeting  
*Toronto, Sept. 23-26, 2020*

Apply by **Oct. 31, 2019.**

foundation.asrt.org/isea  
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Ed Jerman

## SAVE THE DATE

### ASRT's 100th Anniversary is Right Around the Corner

**In 2020, the Society will celebrate a significant milestone: the ASRT Centennial. When Ed Jerman, D.Sc., gathered 13 radiographers in Chicago in 1920 to form the American Association of Radiological Technicians, no one imagined the society would grow to be the world's largest radiologic science association.**

Since that initial meeting 99 years ago, ASRT has shaped the profession and supported the technologists who provide patients with top-notch care every day. From practice standards and educational materials to advocacy efforts and research, ASRT continues to lead the way for all medical imaging and radiation therapy professionals.

The yearlong celebration starts Jan. 1, 2020. Anchored by a new Centennial logo and celebration theme, "Leading the Profession Into the Next Century," radiologic technologists can expect a number of programs, initiatives and events that will honor the ASRT's past, present and future.

Throughout the year, we'll have regular historical updates posted on our social media platforms, special issues of *Scanner*, *Radiologic Technology* and *Radiation Therapist*, a webpage dedicated to the Centennial and much, much more. Keep your eyes open for Centennial promotional items and make sure to spread the word.



In addition, we're gearing up for the 2020 ASRT Educational Symposium and Annual Governance and House of Delegates Meeting, which will be a celebration like no other. Hosted in Albuquerque, New Mexico, we're expanding the symposium to two days of educational courses. The first day of the symposium will have an international flavor with a number of speakers from around the world. Day two will include presenters highlighting topics on workplace trends, best practices, new technologies and much more.

On Friday evening, June 26, we'll take the festivities to the ASRT office in the Albuquerque foothills. Attendees will see the expanded ASRT Museum and Archives with new displays and exhibits, and two new films. One film highlights ASRT's history and the other is for children interested in learning about radiologic technology. The party will include special guests, a variety of activities and a full display highlighting ASRT's National Library Partnership

ASRT will also have two books for sale: the expanded *Shadowmakers: A History of Radiologic Technology* and our affiliate

history book, *Growing a Profession: A Chronicle of ASRT Affiliate Societies*. The limited edition, fully updated *Shadowmakers* picks up the history of the Society to the present day, so it's a must-have for all radiologic technology professionals. We captured another vital aspect of the Society's story in our affiliate history book. It's a keepsake that tells the story of ASRT's 54 affiliate societies and their role in supporting radiologic technologists at the state level through education, legislative advocacy efforts and community building. Both books will be available at the ASRT Expo Hall and during the celebration event at the ASRT office. All proceeds from book sales will go to support ASRT Foundation scholarships, grants and outreach programs.

We invite you to help us celebrate ASRT and the profession's successes and the progress we've made for the entire radiologic technology community. The Centennial is a great reminder that ASRT and its members have been the driving force behind high-quality patient care for a century, and we look forward to leading the charge into the next century.



# Precision Radiation Medicine for everyone, everywhere



**A prolonged, disease-free life is what cancer patients hope for.**

As clinics become more collaborative and treatments become more personalized, Elekta is using precision radiation medicine to work towards a future where everyone can benefit from precise and individually tailored radiotherapy treatments. Regardless of your need or location, Elekta has a solution for you.



## Elekta Unity

**See clearly every time you treat**

Elekta Unity is a state-of-the-art MR-Linac that is redefining a new standard for personalized radiation therapy based on real-time, high-resolution anatomical and biological MRI at the point-of-care.

Elekta Unity is CE marked and 510(k) cleared. Not available in all markets.



## Leksell Gamma Knife® Icon™

**Make the clear clinical choice to grow your intracranial program**

Addressing the growing radiosurgery market, Icon makes Leksell Gamma Knife radiosurgery more flexible and easier to use, allowing more clinics to build an intracranial radiosurgery program.



## Brachytherapy

**An indispensable part of radiation therapy**

Elekta brings cutting edge solutions to everyday clinical practice through the world's largest brachytherapy educational resource platform.

LADXX190719



Visit us at **ASRT (booth 25)** and **ASTRO (booth 3431)** to schedule a product demo.



# Addressing clinical needs **around the world**

**With a range of clinical workflows, our family of HD digital accelerators enables more patients to benefit from state-of-the-art cancer therapy.**



## **Elekta Synergy® HD**

**Proven technology for everyone, everywhere**

Synergy HD is proven, reliable technology that is simple and accessible. With Synergy, you can plan and deliver with accuracy. Synergy enables sophisticated image guidance, allowing confident treatment of simple or complex indications.



## **Elekta Infinity™ HD**

**Flexibility redefined, truly multifunctional**

Infinity HD gives you the clinical freedom to treat a diverse range of patients with simple and complex radiotherapy needs—so you can treat a wider range of patients optimally.



## **Elekta Versa HD™**

**Push the boundaries of your stereotactic capabilities**

Versa HD makes high definition dynamic radiosurgery possible every day, with every patient. Whether you're treating the brain, spine, lung, liver or prostate, Versa HD enables precision quality care in standard treatment slots.

## **Powered by MOSAIQ® Plaza**

Elekta's patient-centric, integrated software suite.



### **MOSAIQ® Treatment Management**

**A single integrated solution that captures the entire oncology chart**

MOSAIQ provides multidisciplinary teams across multiple locations a single interface to vital information by centralizing all the patient data gathered in radiation oncology, particle therapy and medical oncology.



### **Monaco® Treatment Planning**

**The only planning system you need to deliver fast, precise treatments for your patients**

Monaco uses the Monte Carlo algorithm, enabling superior plan quality with short delivery times—allowing you to maximize the capabilities of your Elekta digital accelerators.

MOSAIQ Plaza is not available in all markets.

**Focus where it matters.**



# RT asrt 2019 RADIATION THERAPY CONFERENCE COURSES

## SUNDAY, SEPT. 15

» Corporate support provided by Elekta

### Laugh to the Top: A Hilarious Guide to Achieving Your Goals

⌚ 8-9 a.m. (Novice), S100BC

👤 Presented by Mack Dryden, Cancer Survivor

Listen, laugh and learn at an entertaining and thought-provoking presentation that will be packed with practical, proven techniques for setting, pursuing and achieving your professional and personal goals. You'll be inspired to make yourself and your organization the very best they can be.

### Evaluating and Updating the Patient Education Process

⌚ 9:25-10:25 a.m. (Novice), S100BC

👤 Presented by Amy Heath, M.S., R.T.(T)

Who assesses patient education material? How do you know it meets the health literacy standards? How can you ensure that patients are getting the information they need? This course will answer those questions and more.

### Using Emergency Charts to Communicate Vital Information in a Disaster

⌚ 10:50-11:50 a.m. (Intermediate), S100BC

👤 Presented by Zachary Smith, M.B.A., R.T.(R)(T)

Floods, fires, hurricanes and other natural disasters can displace patients and providers. This course focuses on the use of disaster emergency charts to ensure that patients can restart and complete their therapy without significant delay.

### Mental Health Matters

⌚ 1:30-2:30 p.m. (Novice), S100BC

👤 Presented by Timmerie Cohen, Ph.D., R.T.(R)(T), CMD

Radiation therapists' mental health can impact their ability to deliver quality patient care. This lecture will focus on stress and how it can affect your personal and professional life.

## MONDAY, SEPT. 16

### Advancements in Palliative Radiation

⌚ 8-9 a.m. (Novice), S105A

👤 Presented by Samantha Skubish, M.S., R.T.(R)(T)

Recent advancements in palliative radiation research have shifted the focus from treating the disease to treating the whole person through multidisciplinary collaboration. Learn techniques for the palliative patient population based on recent data, mindful patient communication and essential patient safety protocols.

» Corporate support provided by Varian

### Change Management

⌚ 8-9 a.m. (Intermediate), S105BC

👤 Presented by Trena Taylor, B.A., R.T.(R)(T), CPC

This course will illustrate the effects of a strong change management structure and the benefits of a positive culture and consistent process. You'll come away with an understanding of and ideas pertaining to how you and others in your department can positively affect change.

» Corporate support provided by Accuray

» Faculty provided by Revenue Cycle

### Radiation Therapy and the 1.5-T Magnetic Resonance-Linear Particle Accelerator

⌚ 8-9 a.m. (Intermediate), S105D

👤 Presented by Grace Ungchusri, B.S., R.T.(T)(MR); Neil Hughes, B.S., R.T.(R)(T)(CT)(MR)

The speakers will draw on firsthand experiences with the 1.5-T MR-LINAC to identify workflow challenges and answer commonly asked questions. They will analyze workflows from initial screening through treatment completion and introduce attendees to online adaptive planning and its possible effect on the future of radiation therapy.

### The Design and Implementation of the Range Shifter Helmet in Proton Therapy

⌚ 8-9 a.m. (Novice), S103ABC

👤 Presented by Tracy Gadiant, B.S., R.T.(T)

This course will enhance your knowledge of the of the range shifter helmet and help you identify the need for and application of range shifter devices in proton therapy. Presenters will also discuss the range shifter helmet specifications and explore the complexities of treating with the helmet.

### Preparing Students for Internship

⌚ 8-9 a.m. (Novice), S103D

👤 Presented by Amanda Carpenter, B.S., R.T.(T)

Drawing on topics from the internship preparation course she teaches, the speaker will highlight and discuss various aspects that can help radiation therapy students have successful internships.

### Varian Treatment Planning Systems Workshop

#### Concurrent Multiple Primary Lung SBRT

⌚ 8-9 a.m. (Intermediate), S104AB

👤 Presented by Christy Stokes, R.T.(R)(T), CMD

Learn about creating arc fields, optimizing multiple targets and calculating final dose for a complex lung stereotactic body radiation therapy patient. The speaker will discuss the proton optimization algorithm inclusive of the multiple resolution levels, normal tissue objective parameters, avoidance structure and intermediate dose.

### Klarity Workshop

#### Dry Up: Dry Heat Ovens for Thermoplastic Mask Preparation

⌚ 8-9 a.m. (Novice), S102BC

👤 Presented by Eliza Larson, M.F.A.; Troy Mercier, M.F.A.

Explore dry heat ovens, the best methods for mask preparation and workflow adjustments. Attendees will have hands-on time to work with the ovens and explore how thermoplastics behave in dry heat.

### MacroMedics Presents

#### Ease of Implementing: A Year in Review of 'Double Shell' Devices

⌚ 8-9 a.m. (Novice), S102D

👤 Presented by Deborah Burton, CMD; Anthony Palin

At this presentation and demonstration of the Double Shell Positioning System, presenters will discuss implementation of the system, including staff training. In addition, they will review trial data for reproducibility and patient experience and explain treatment planning and dosimetric considerations and compatibility with existing equipment.

### Patient Repositioning to Limit Interfractional Motion

⌚ 9:20-10:20 a.m. (Novice), S105A

👤 Presented by Joshua Langer, B.S., R.T.(T)

This course will focus on basic musculoskeletal alignment and its interfractional variation. Using the head and neck treatment site as a touchstone, the course will examine the dosimetric effects when a patient's treatment position varies from simulation position.

» Corporate support provided by Varian

(Subject to change)

**MONDAY, SEPT. 16****Methods to Perfecting Multidisciplinary Handoff Communication to Enhance Patient Safety**

⌚ 9:20-10:20 a.m. (Intermediate), S105BC

👤 Presented by Danielle McDonagh, M.S., R.T.(T)

This course will identify practical tools that will enhance your ability to practice proper handoff communication. Using common methods often associated with nursing and aerospace specialties, this course will provide a comprehensive toolkit to advance multidisciplinary communication while improving patient care in their departments.

» Corporate support provided by Accuray

**Casting Leaders: Using Bolman and Deal Frames to Enhance Your Leadership Style**

⌚ 9:20-10:20 a.m. (Intermediate), S105D

👤 Presented by Maria Dimopoulos, M.B.A., R.T.(T)

This course will highlight the structural, symbolic, human resource and political frameworks associated with your leadership style. Through self-assessment and case discussion, you'll gain a better understanding of your leadership style and how to adapt appropriately.

**Quantitative Ultrasound Radiomic Biomarkers for Head and Neck Radiotherapy**

⌚ 9:20-10:20 a.m. (Intermediate), S103ABC

👤 Presented by William Tran, Ph.D., MRT(T)

Identifying QUS radiomic markers in metastatic lymph nodes is an a priori predictive indicator for response to radiation therapy in head and neck cancer. This course will enable you to describe clinical presentation of head and neck cancer, its clinical management using radiation therapy treatment, and radiomic biomarkers' use in radiation therapy treatment.

» Faculty recipient of the International Speakers Exchange Award

**Showcase of Educational Technology for Radiation Therapy Educators**

⌚ 9:20-10:20 a.m. (Intermediate), S103D

👤 Presented by Jessica Church, M.P.H., R.T.(R)(T), CMD; Sandra John-Baptiste, B.S., R.T.(R)(T), CMD

This course will provide educators with a list of educational technologies, categorized by broad methodology, with examples in each category. The speakers will review the available technologies within medicine and allied health and examine the advantages and limitations of each.

**Varian Treatment Planning Systems Workshop  
Concurrent Multiple Primary Lung SBRT**

⌚ 9:20-10:20 a.m. (Intermediate), S104AB

👤 Presented by Christy Stokes, R.T.(R)(T), CMD

Learn about creating arc fields, optimizing multiple targets and calculating final dose for a complex lung stereotactic body radiation therapy patient. The speaker will discuss the proton optimization algorithm inclusive of the multiple resolution levels, normal tissue objective parameters, avoidance structure and intermediate dose.

**Klarity Workshop****Dry Up: Dry Heat Ovens for Thermoplastic Mask Preparation (repeat)**

⌚ 10:40-11:40 a.m. (Novice), S102BC

👤 Presented by Eliza Larson, M.F.A.; Troy Mercier, M.F.A.

Explore dry heat ovens, the best methods for mask preparation and workflow adjustments. Attendees will have hands-on time to work with the ovens and explore how thermoplastics behave in dry heat.

**MacroMedics Presents****Ease of Implementing: A Year in Review of 'Double Shell' Devices (repeat)**

⌚ 10:40-11:40 a.m. (Novice), S102D

👤 Presented by Deborah Burton, CMD; Anthony Palin

At this presentation and demonstration of the Double Shell Positioning System, presenters will discuss implementation of the system, including staff training. In addition, they will review trial data for reproducibility and patient experience and explain treatment planning and dosimetric considerations and compatibility with existing equipment.

ACCURAY HOUR

**Treating Lung Cancer: To Move or Not To Move, That Is the Question**

⌚ 10:40-11:40 a.m. (Novice), S105BC

👤 Presented by Michael Wussow, M.B.A.

The speaker will discuss treating the leading cause of cancer-related deaths. Learn about novel technologies that enable motion synchronization and engender a better patient experience.

**Using Surface-guided Radiation Therapy for Prone Breast Positioning**

⌚ 10:40-11:40 a.m. (Novice), S105A

👤 Presented by Rachael Matula, B.S., R.T.(R)(T)

The use of SGRT is growing, specifically in breast radiation therapy treatments. After attending this course, you'll be able to discuss the effectiveness of SGRT for prone breast positioning and how it improves workflow and increases patient comfort, explain the benefits of using SGRT and describe how to implement SGRT in daily workflow.

» Corporate support provided by Varian

**Coding Updates and Examples for 2019 and 2020**

⌚ 10:40-11:40 a.m. (Intermediate), S105D

👤 Presented by Ronald DiGiaino, M.B.A., FACHE

Learn about correct coding, documentation and compliance for optimal reimbursement in 2019 and prepare for the complex coding changes possibly coming in 2020. The speaker will describe common services, complex scenarios, and billing code documentation and compliance risks in hospitals and free-standing physician-owned facilities.

» Faculty provided by Revenue Cycle

**Family Members as Caretakers: Unique Health Effects and Required Resources**

⌚ 10:40-11:40 a.m. (Intermediate), S103ABC

👤 Presented by Brianna Pelillo, B.S., R.T.(R)(T)

Explore the effect of stress, depression and anxiety on caregivers and discover helpful resources available to help. The presenter will also discuss stressors placed on family members and patients in a caretaking and cancer diagnosis scenario.

**Smooth Transitions: Optimizing Student Rotations in Radiation Oncology Departments**

⌚ 10:40-11:40 a.m. (Intermediate), S103D

👤 Presented by Maria Dimopoulos, M.B.A., R.T.(T)

This course will highlight the gaps in clinical rotations that were noted at the Mount Sinai Center for Radiation Therapy Education at Stony Brook University and offer a solution — the monthly intake form. Student monthly intake forms provide a seamless transition, encouraging students and staff to discuss the students' experience, goals for the rotation ahead and the team's expectations.

**Evolving Roles of Dosimetry and Radiation Therapy in the Adaptive Age**

⌚ 10:40-11:40 a.m. (Intermediate), S104AB

👤 Presented by Adam Moore, B.S., R.T.(T), CMD

Find out about the role of autoplanning and autocontouring in adaptive treatment, the evolution of job roles of dosimetrists and radiation therapists from adaptive therapy and how to prepare skill sets for the future. This course will help you define and discuss adaptive radiation therapy, as well as the consequences of unaccounted anatomical and target changes.

**Klarity Workshop****Advanced Support Cushion Molding Techniques for Patient Positioning**

⌚ 1:10-2:10 p.m. (Novice), S102BC

👤 Presented by Michelle Moniz, R.T.(R)(T), CMD

Discover techniques for using cushions to support the cervical spine for better reproducibility in head and neck treatments, explore techniques for molding support cushions for the general population and ways of using customized cushions for challenging positioning needs. Models will be provided for hands-on workshoping.

(Subject to change)



## MONDAY, SEPT. 16

MacroMedics Presents

### One Board, Infinite Solutions — An RT's Dream for

#### Patient Positioning

⌚ 1:10-2:10 p.m. (Novice), S102D

👤 Presented by Deborah Burton, CMD; Anthony Palin

At this lecture and demonstration for the OmniBoard patient positioning system, presenters will explain the key elements of the system and will discuss treatment planning, dosimetric considerations, the system's compatibility with existing equipment and more.

### Motion Management Technologies in the 21st Century

⌚ 1:10-2:10 p.m. (Advanced), S105A

👤 Presented by Linda Finn, M.Ed, R.T.(R)(T); Sarah Rapicano, M.H.A., R.T.(T)

Explore the use of motion management technologies to compensate for tumor motion. The speakers will provide clinical examples of motion management technologies and the corresponding reported clinical efficacies.

» Corporate and faculty support provided by Varian

### Pain Management Challenges in Radiation Oncology

⌚ 1:10-2:10 p.m. (Intermediate), S105BC

👤 Presented by Zachary Smith, M.B.A., R.T.(R)(T)

Studies show that up to 70% of all cancer patients experience pain, but the actual number might be even higher. Review the facts about cancer- and treatment-related pain, its identification, management and challenges.

» Corporate support provided by Accuray

### Daily Huddle — Improving Communication, Coordination and Patient Care

⌚ 1:10-2:10 p.m. (Novice), S105D

👤 Presented by Ryan Morooso, B.A., R.T.(R)(T), CMD

A daily huddle can improve communication, coordination and patient care in the department. Learn how to implement a daily huddle, topics to discuss, how long the huddle should be and the expectations of team members during the huddle.

### Mental Health in the Cancer Patient Population

⌚ 1:10-2:10 p.m. (Novice), S103ABC

👤 Presented by Kimberly LaGuardia, M.H.A., R.T.(T)

Examine mental health in the United States and in the cancer patient population. This course will focus on risk factors, the benefits of early detection, current and proposed screening practices and the negative effects of ignoring the mental health needs of the cancer patient population.

### Integrating Critical Thinking in the Classroom

⌚ 1:10-2:10 p.m. (Intermediate), A103D

👤 Presented by Julie Hollenbeck, M.Ed., R.T.(T)

This course will provide strategies for integrating critical thinking into the classroom. The presenter will also explain the importance of conducting evidence-based research to measure critical thinking in the classroom.

### A Comprehensive Look at Simultaneous Integrated Boost and Benefits

⌚ 1:10-2:10 p.m. (Novice), S104AB

👤 Presented by Adenike Olanrewaju, M.B.A., CMD

Review the simultaneous integrated boost that will increase the participants' understanding of this treatment technique. This course is for those interested in learning about the basic elements and principles of treatment planning.

### Vision for Adaptive Radiotherapy

⌚ 2:30-3:30 p.m. (Novice), S105A

👤 Presented by Drew Bullock, M.S., CMD

Improve your understanding and knowledge of Varian's newest radiation therapy platform, Halcyon. The presenter will give a background and description of the actual treatment machine and discuss various processes that may vary from traditional linear accelerator treatment workflow.

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### Treating Lymphoma With Proton Therapy

⌚ 2:30-3:30 p.m. (Novice), S105BC

👤 Presented by Kelsey Rocha, A.A.S., R.T.(T); Michelle Thompson, B.S., R.T.(T)

This course will share the benefits of proton therapy associated with Hodgkin and non-Hodgkin lymphoma. It also will discuss the epidemiology, etiology, prognostic factors and presentation of Hodgkin and non-Hodgkin lymphoma, the anatomy and physiology of lymphoma and more.

» Corporate support provided by Accuray

### Radiation Therapist to Manager: Navigating the Evolution

⌚ 2:30-3:30 p.m. (Novice), S105D

👤 Presented by Mia Gaines, R.T.(R)(T)

This course highlights the transition from radiation therapist to manager of a radiation oncology department. Attendees will learn about the challenges of this evolution and gain perspective on how to navigate it.

### RO-ILS and Safety Culture: Therapist's Role in Communication and Collaboration

⌚ 2:30-3:30 p.m. (Novice), S103ABC

👤 Presented by Taleah Tatum, M.H.A., R.T.(T); Sheri M. Weintraub, M.S., DABR

This discussion will be led by a member of the Radiation Oncology Healthcare Advisory Council, the multidisciplinary team that analyzes RO-ILS — Radiation Oncology Incident Learning System — events nationwide. The speaker will discuss case studies that exemplify the importance of a strong safety culture.

### Innovative Pedagogical Strategies for the Radiation Therapy Classroom

⌚ 2:30-3:30 p.m. (Intermediate), S103D

👤 Presented by Megan Trad, Ph.D., M.S.R.S., R.T.(T)

This presentation will explore two innovative teaching techniques. The first helps students gain skills in communicating with children and gain an appreciation of the effect cancer has on the family, and the second helps students use photography to reflect on their education.

### Myths, Opinions and Facts: How Do I Know What Is Correct?

⌚ 2:30-3:30 p.m. (Intermediate), S104AB

👤 Presented by James Hugh III, M.H.A., ROCC, CHBME

Medical dosimetry coding procedures and documentation have changed over the last 20 years, adding more responsibility to the medical dosimetrist to keep current. This course will assist the dosimetrist in the current understanding of charge capture in the electronic medical record.

» Faculty provided by American Medical Accounting & Consultants

### Klarity Workshop

#### Advanced Support Cushion Molding Techniques for Patient Positioning (repeat)

⌚ 3:50-4:50 p.m. (Novice), S102BC

👤 Presented by Michelle Moniz, R.T.(R)(T), CMD

Discover techniques for using cushions to support the cervical spine for better reproducibility in head and neck treatments, explore techniques for molding support cushions for the general population and ways of using customized cushions for challenging positioning needs. Models will be provided for hands-on workshoping.

MacroMedics Presents

### One Board, Infinite Solutions — An RT's Dream for

#### Patient Positioning (repeat)

⌚ 3:50-4:50 p.m. (Novice), S102D

👤 Presented by Deborah Burton, CMD; Anthony Palin

At this lecture and demonstration for the OmniBoard patient positioning system, presenters will explain the key elements of the system and discuss treatment planning, dosimetric considerations, the system's compatibility with existing equipment and more.

### Optimizing Contrast Administration in CT Simulation

⌚ 3:50-4:50 p.m. (Intermediate), S105A

👤 Presented by Mark Roytman, B.S., R.T.(T)

Review the rationale for intravenous, oral, rectal and vaginal contrast for various tumor sites, as well as procedures for safe administration of contrast agents. You'll be informed of methods to safely administer contrast agents while optimizing visualization of the GTV and organs at risk.

» Corporate support provided by Varian

(Subject to change)

**MONDAY, SEPT. 16****Creating a Culture of Continuous Improvement Using Quality Conversations**

🕒 3:50-4:50 p.m. (Intermediate), S105BC

👤 **Presented by Francois Gallant, MRT(T)**

Learn about quality conversations and weekly huddle to discuss and act on quality improvements, and to share ideas and celebrate accomplishments. This technique can create continuous quality improvement to increase patient outcomes, improve processes and augment staff engagement.

» *Corporate support provided by Accuray*

**Mergers and Integration: The Evolving Role of the Radiation Therapist in Patient-specific QA**

🕒 3:50-4:50 p.m. (Novice), S103ABC

👤 **Presented by Jason Stanford, Ph.D., R.T.(R)(T), DABR, CMD**

Mergers and integration in health care affect the role of radiation therapists. This course will focus on data-driven decisions from a single institution pilot program for IMRT/VMAT.

**Integrating Components of Professionalism into Radiation Therapy Education**

🕒 3:50-4:50 p.m. (Novice), S103D

👤 **Presented by Amy Heath, M.S., R.T.(T);**

**Melissa Weege, M.S., R.T.(T), CMD**

The speaker will discuss career advancement, research and publishing, service learning, professional involvement and quality improvement. Concrete examples will be used to illustrate how to teach the concept of professionalism.

**Automatic Deformable Image Registration and Patient-specific QA**

🕒 3:50-4:50 p.m. (Intermediate), S104AB

👤 **Presented by Kris Huang, M.D., Ph.D.**

This high-level overview of conventional and deep learning deformable image registration methods will explore recent advances in machine perception technology and their impact on clinical workflow.

**TUESDAY, SEPT. 17****Using Surface-guided Radiation Combined With Deep Inhalation Breath Hold**

🕒 7:30-8:30 a.m. (Novice), S105A

👤 **Presented by Cynthia Vavasis, A.A.S., R.T.(T)**

Learn the importance of deep inhalation breath hold as it applies to left-sided breast cancer, decreasing short-term and long-term heart risk. The course will cover treatment planning techniques and key patient selection guidelines to establish a high-quality DIBH program.

**The Role of the Radiation Therapist in Veterinary Medicine v. 2.0**

🕒 7:30-8:30 a.m. (Intermediate), S105BC

👤 **Presented by Brandy Banks, R.T.(T)**

This course will enhance your knowledge of the role of the radiation therapist in veterinary medicine. Learn about the role of radiation therapy in the treatment of canine and feline cancer, the clinical trials available through a veterinary cancer center and more.

**Back to Basics: Fundamentals of the Medicare Payment Systems**

🕒 7:30-8:30 a.m. (Intermediate), S105D

👤 **Presented by Tamara Syverson, B.S., R.T.(T)**

The speaker will review the basics of the Medicare Physicians Fee Schedule and Hospital Prospective Payment System and the key terms and concepts that apply to each system.

» *Faculty provided by Revenue Cycle*

**Setting the Bar: Reducing Unwarranted Couch Overrides in Radiation Therapy**

🕒 7:30-8:30 a.m. (Intermediate), S103ABC

👤 **Presented by Rachel Natter, M.B.A.; Harmon MacDonald Jr., B.S., R.T.(R)(T); Paige Nitsch, M.S., DABR; Eva Birring, M.B.A., R.T.(T)**

The Division of Radiation at The University of Texas MD Anderson Cancer Center undertook a process improvement project to address override fatigue and subsequent adverse events. This course will focus on the project initiation and interventions that reduced unwarranted overrides, improved overall situational awareness and a culture of safety.

**Using Technology to Cultivate an Interactive Learning Environment**

🕒 7:30-8:30 a.m. (Advanced), S103D

👤 **Presented by Cheryl Young, M.S., R.T.(T)**

Learn about the uses of technology-based practices and innovative classroom technologies to teach and connect with students. By using new and fun teaching techniques, instructors can improve classroom discussion through enhanced participation.

**Vision RT Workshop****SGRT From Head to Toe**

🕒 7:30-8:30 a.m. (Novice), S102BC

👤 **Presented by Hayley Petrarca, B.S., R.T.(T); Joseph Rau, B.S., R.T.(T)**

The speaker will describe the submillimetric patient setup abilities of AlignRT for multiple indications. Vision RT clinical applications support specialists will demonstrate recommended techniques and allow attendees to partake in treatment workflows.

**CIVCO Presents****Advancements in 3D Printing Use in Radiation Therapy**

🕒 7:30-8:30 a.m. (Novice), S102D

👤 **Presented by Brian Overshiner, B.S., R.T.(T); Erin Brown, M.B.A.**

The use of 3D printing is on the rise in radiation therapy. During this overview of 3D bolus fabrication and high-dose-rate surface brachytherapy applicators, presenters will explain how 3D printing can improve treatment and the patient experience.

**Accuray Presents****Making Robotic Radiosurgery Easy for Everyone**

🕒 7:30-8:30 a.m. (Intermediate), S104AB

👤 **Presented by Bill Vogel, B.A., R.T.(T)**

Accuray's CyberKnife VOLO Optimizer is the next generation treatment planning optimizer for the CyberKnife System. Learn about the CyberKnife System and how to develop a clinically acceptable and efficient radiosurgery plan.

**Implementation of MR-only Simulation, Planning and Treatment for APBI**

🕒 8:45-9:45 a.m. (Intermediate), S105A

👤 **Presented by Areti Marko, M.B.A., R.T.(T)**

The speaker for this course will describe the clinical experience of establishing magnetic resonance imaging-based simulation, planning and treatment for accelerated partial breast irradiation.

**The Evolutionary Role of Radiosurgery for Intracranial Lesions**

🕒 8:45-9:45 a.m. (Advanced), S105BC

👤 **Presented by Fatima Do, B.S., R.T.(T)**

Optical surface monitoring system and Exactrac software — in conjunction with cone beam computed tomography imaging — have led to accurate and safe stereotactic radiosurgery treatments using the frameless system. By attending this course, you'll learn the advantages and disadvantages of a frame-based system and a frameless system.

**Using Creative Innovation to Increase Patient Safety**

🕒 8:45-9:45 a.m. (Intermediate), S105D

👤 **Presented by Robert D. Adams, Ed.D., R.T.(T), CMD, FASRT**

Learn about the University of North Carolina Department of Radiation Oncology's 10-year journey to increasing patient safety. The speaker will describe of the problems, successes, failures, trends and issues.

(Subject to change)

## TUESDAY, SEPT. 17

### Improving Radiation Therapy in Developing Countries

🕒 8:45-9:45 a.m. (Novice), S103ABC

👤 Presented by **Samantha Zeitner-Janesian, B.S., R.T.(T)**

Radiation oncology professionals like you are making a difference all over the world. Learn about opportunities to improve radiation therapy clinics in developing countries.

### Implementing Radiation Therapy Research

🕒 8:45-9:45 a.m. (Intermediate), S103D

👤 Presented by **Carol Scherbak, M.S.R.S., R.T.(T)**

Are you interested in adding to the body of knowledge in radiation therapy, establishing scientific research methodology and practicing in radiation therapy educational programs? This course will be useful for those who want to create working relationships for research or have a desire to explore the profession.

CIVCO Presents

### Advancements in 3D Printing Use in Radiation Therapy (repeat)

🕒 8:45-9:45 a.m. (Novice), S102D

👤 Presented by **Brian Overshiner, B.S., R.T.(T); Erin Brown, M.B.A.**

The use of 3D printing is on the rise in radiation therapy. During this overview of 3D bolus fabrication and high-dose-rate surface brachytherapy applicators, presenters will explain how 3D printing can improve treatment and the patient experience.

Accuray Presents

### Making Robotic Radiosurgery Easy for Everyone (repeat)

🕒 8:45-9:45 a.m. (Intermediate), S104AB

👤 Presented by **Bill Vogel, B.A., R.T.(T)**

Accuray's CyberKnife VOLO Optimizer is the next generation treatment planning optimizer for the CyberKnife System. Learn about the CyberKnife System and how to develop a clinically acceptable and efficient radiosurgery plan.

### Does Service Recovery Impact the Patient Experience in Radiation Oncology?

🕒 10-11 a.m. (Novice), S105A

👤 Presented by **Charles Washington, M.A., R.T.(R)(T), FASRT**

The speaker will explain how patients' experiences and satisfaction relate to service recovery. You'll also learn about the design, implementation and maintenance of service recovery practices in radiation oncology.

### Prostate Cancer and the Complications It Leaves Behind

🕒 10-11 a.m. (Intermediate), S105BC

👤 Presented by **Katie McNeill, B.S., R.T.(R)(T)(CT); Andrew Peterson, M.D., FACS**

Pubic bone osteomyelitis as a result of a pubosymphseal urinary fistula is a newly recognized complication occurring in prostate patients, including the speaker's father. This presentation will include a discussion of the long-term effects of radiation therapy and cryotherapy and leave you with a better understanding of the causes, symptoms and management of the bone infection and the urinary fistula.

### Where Do I Find the Facts? Code Capture, Supervision and Documentation

🕒 10-11 a.m. (Intermediate), S105D

👤 Presented by **James Hugh III, M.H.A., ROCC, CHBME**

Therapists have a lot of responsibility regarding correct charge capture. Join in this review industry standards and explore resources for authoritative guidance to help establish a filter for advice and direction from various sources.

» Faculty provided by American Medical Accounting & Consultants

### Leveraging Mobile Device App Technology for Patient Education and Communication

🕒 10-11 a.m. (Intermediate), S103ABC

👤 Presented by **Bryan Schmalhofer, M.B.A., R.T.(R)(T), ACHE**

The Radiation Oncology Mobile App allows for symptom tracking and graphing, the ability to embed patients' reported symptoms into physicians' OTV notes, push notifications and more. Learn about an easy-to-use app that enables patients to take control of their cancer journey at their convenience.

### Patient Engagement in Research: How to Make Your Projects Meaningful

🕒 10-11 a.m. (Novice), S103D

👤 Presented by **Lisa DiProspero, M.Sc., MRT(T)**

Engaging our patients, families and community is integral to understanding changes and priorities that are meaningful and of value. The speaker will discuss the principles of patient engagement in research and how it can improve health research, clinical practice, health outcomes and more.

» Faculty provided by Radiation Therapist Editorial Review Board

### Metrics-driven Treatment Planning Timelines

🕒 10-11 a.m. (Intermediate), S104AB

👤 Presented by **Kham Nguyen, M.B.A., R.T.(T), CMD; Matthew Ning, M.D.**

The speaker will provide an overview of a metrics-driven approach to setting time frames and category criteria for scheduling radiation treatment to optimize quality, safety and efficiency in radiation treatment delivery.

Vision RT Workshop

### SGRT From Head to Toe (repeat)

🕒 10-11 a.m. (Novice), S102BC

👤 Presented by **Hayley Petrarca, B.S., R.T.(T); Joseph Rau, B.S., R.T.(T)**

The speaker will describe the submillimetric patient setup abilities of AlignRT for multiple indications. Vision RT clinical applications support specialists will demonstrate recommended techniques and allow attendees to partake in treatment workflows.

CIVCO Presents

### Enhancing the Patient Experience Through Product Innovations for Breast Treatment

🕒 10-11 a.m. (Novice), S102D

👤 Presented by **Nicole Ottaviani, R.T.(T); Felicity Achong, B.S., R.T.(R)(T); Annelies Maas; Holly Seymour B.S. R.T.(T)**

Explore new breast cancer treatment products and practices that can improve patient outcomes and the patient experience.

### Managing Staff Burnout and its Effect on Patient Satisfaction and Safety

🕒 11:30 a.m.-12:30 p.m. (Intermediate), S105A

👤 Presented by **Angela Oliveira, M.P.A., M.H.A., R.T.(T)**

Explore the connection between the common elements of staff burnout and how they affect patient care. Staffing levels, staff retention plans, wellness programs and establishing a culture of safety will be reviewed, and strategies to improve employee engagement, increase job effectiveness and job satisfaction, and improve quality will be provided.

### Pelvis MR Anatomy Refresher for Radiation Therapy Practice

🕒 11:30 a.m.-12:30 p.m. (Intermediate), S105BC

👤 Presented by **Laura D'Alimonte, B.Sc., MRT(T); Mikki E. Campbell, M.H.E., MRT(T)**

The speaker will review male and female pelvic anatomy and use an interactive component to demonstrate the use of pelvic magnetic resonance scans across the radiation therapy workflow (simulation, planning and treatment delivery) to cultivate good clinical decision making.



**TUESDAY, SEPT. 17****Triple Negative Breast Cancer — Treatment and Tribulations**

⌚ 11:30 a.m.-12:30 p.m. (Intermediate), S105D

👤 Presented by **Cherri Eggleston, M.B.A., R.T.(T)**

Get a refresher on the various types of breast cancer, with an emphasis on triple negative breast cancer, and what differentiates triple negative breast cancer from other breast cancers. The discussion also will include treatment regimens for all stages of triple negative breast cancer, from radiation therapy and chemotherapy to surgery.

**High Reliability in a Large Academic Radiation Oncology Practice**

⌚ 11:30 a.m.-12:30 p.m. (Novice), S103ABC

👤 Presented by **Rachel Natter, M.B.A.; Ivy Robinson, A.A.S., R.T.(R)(T)**

The speakers will share their successes and challenges on the journey toward high reliability. You'll gain an understanding of the application of the pillars of leadership, culture of safety and robust process improvement.

**Proton Global Training and Education Solution**

⌚ 11:30 a.m.-12:30 p.m. (Intermediate), S103D

👤 Presented by **Laura Kendrick, M.H.A., R.T.(T); Courtney Misher, M.P.H., R.T.(T)**

Learn about the proton therapy education program at the Penn Medicine Roberts Proton Therapy Center. The course offers three components: web-based training modules created by experts in proton therapy, hands-on training at the Roberts Proton Therapy Center and onsite facility support.

**Dosimetry 101: Back to the Basics**

⌚ 11:30 a.m.-12:30 p.m. (Intermediate), S104AB

👤 Presented by **Adam Brown, B.S., R.T.(T), CMD; Jennifer Buchanan, B.S., R.T.(R)(T)**

In this course, presenters will discuss the coding differences when using planning modalities such as 2D (conventional), 3D conformal, intensity-modulated radiation therapy, stereotactic radiosurgery, stereotactic body radiotherapy and brachytherapy. Sample cases will be presented to illustrate coding patterns and potential payer edits.

» Faculty provided by Revenue Cycle

Vision RT Presents

**Less is More: Using Surface-Guided Radiation Therapy in Your Clinic**

⌚ 11:30 a.m.-12:30 p.m. (Novice), S102BC

👤 Presented by **Rachael Francis, M.B.A., R.T.(T)**

This course introduces attendees to surface-guided radiation therapy via AlignRT. The presenter will discuss how to implement AlignRT into a routine to reduce or eliminate external marks, as well as demonstrate how AlignRT can aid in patient positioning and monitoring.

CIVCO Presents

**Enhancing the Patient Experience Through Product Innovations for Breast Treatment (repeat)**

⌚ 11:30 a.m.-12:30 p.m. (Novice), S102D

👤 Presented by **Nicole Ottaviani, R.T.(T); Felicity Achong, B.S., R.T.(R)(T); Annelies Maas; Holly Seymour B.S. R.T.(T)**

Explore new breast cancer treatment products and practices that can improve patient outcomes and the patient experience.

**Reporting Near Misses to Increase Efficiency and Improve Patient Safety**

⌚ 12:45-1:45 p.m. (Intermediate), S105A

👤 Presented by **Katherine Sorensen, M.S.H.C.A., R.T.(R)(T)**

Patient safety and delivery of high-quality care are at the forefront of health care organizations throughout the country. The speaker will offer conceptual proposals and guidance for leadership and staff on how to seek best practice for the future of health care stakeholders.

**Fifty Shades of Protons: Everything You Want to Know but Are Afraid to Ask**

⌚ 12:45-1:45 p.m. (Intermediate), S105D

👤 Presented by **Kristin Callicotte, B.S., R.T.(T)**

Because conventional radiation therapy still dominates in the United States, therapists lack the opportunity to learn proton therapy and to ask questions about it. This course will address the most frequently asked questions, including the "taboo" questions many are afraid to ask.

**Billing and Coding: What You Need to Know but They Don't Want You to Know**

⌚ 12:45-1:45 p.m. (Intermediate), S103ABC

👤 Presented by **Jordan Johnson, M.H.A., R.T.(R)(T)**

Codes tell a story and have consequences and outcomes that affect the therapist, the department and the facility. The speaker will explain your influence on the department and institution, discuss the focus of the institution regarding radiation therapist coding knowledge and provide insight into the financial operation of a radiation oncology department.

» Faculty provided by Legion Healthcare Partners

**Teaching in the Age of Anxiety**

⌚ 12:45-1:45 p.m. (Intermediate), S103D

👤 Presented by **Kelly Ebert, M.P.A., R.T.(T)**

This course will explore some of the reasons students are anxious, then the audience will break into groups and share their own ideas. The session will conclude with a brainstorming session, where participants will discuss ways to manage student anxiety.

**Left Breast Deep Inspiration Breath Hold Radiation Therapy — Tangents vs. VMAT**

⌚ 12:45-1:45 p.m. (Intermediate), S104AB

👤 Presented by **Arthur Santos, A.A.S., R.T.(R)(T), CMD**

This session will cover the advantages of the deep inspiration breath hold technique for left-sided breast cancers. Learn which patients are suitable for this treatment technique and how to implement, dosimetrically and clinically, methods to improve the patient's clinical outcome.

Vision RT Presents

**Less is More: Using Surface-Guided Radiation Therapy in your Clinic (repeat)**

⌚ 12:45-1:45 p.m. (Novice), S102BC

👤 Presented by **Rachael Francis, M.B.A., R.T.(T)**

This course introduces attendees to surface-guided radiation therapy via AlignRT. The presenter will discuss how to implement AlignRT into a routine to reduce or eliminate external marks, as well as demonstrate how AlignRT can aid in patient positioning and monitoring.

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Please find references at [VisionRT.com/References](http://VisionRT.com/References).  
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# ASRT National Library Partnership

## Finding New Ways To Tell Our Story

The ASRT National Library Partnership is a unique opportunity to tell the story of our profession through a collaboration with one of America's most trusted institutions — the public library. The program offers financial grants to public library systems to purchase books on the radiologic sciences. It's part of ASRT's ongoing commitment to educate the public about radiologic technologists' role in health care, patient safety measures and the science behind radiation therapy and medical imaging procedures. Libraries across the U.S. exhibit books and information during National Radiologic Technology Week®. Many of the libraries received grants through recommendations from ASRT members.

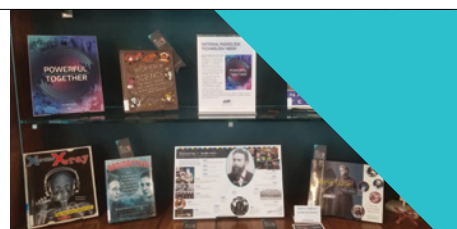
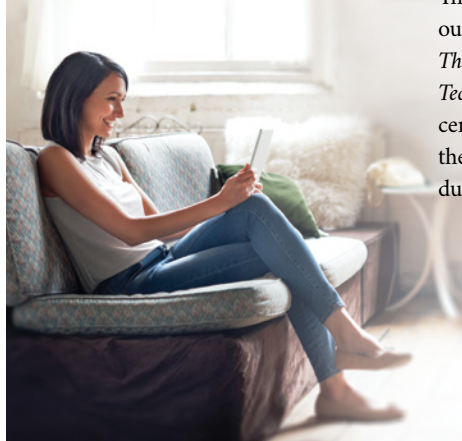
Why focus our communication efforts on libraries? According to a report from the Pew Research Center, support for public libraries is on the rise, and many believe libraries have a positive and inspiring influence on the community. Surprisingly, millennials are the most

likely generation to use public libraries, and all generations say they can trust the information they find there. What an ideal environment in which to introduce Americans to the wonders of radiologic science and the importance of radiation therapists and medical imaging professionals in health care!

This year, we'll expand the project and develop metrics to evaluate our success. The ultimate goal is to have 100 or more displays with at least one in each state by 2020. And we're already closing in on that ambitious goal.

Using funds provided by ASRT, libraries may purchase any of about three dozen titles. The list includes children's books, such as *Jessica's X-ray* and *Marie Curie for Kids*, as well as best-sellers like *The Bright Hour* and *The Radium Girls*. The works are of general interest and present radiation therapy and medical imaging professionals as compassionate, knowledgeable and vital to today's health care environment.

The library program also ties into our project to update ASRT's book *The Shadowmakers: A History of Radiologic Technology*, which chronicles the century-long history of ASRT and the profession and will be available during ASRT's Centennial in 2020.



# EXHIBITOR NEWS

The ASRT exhibit hall is where you'll find the profession's best vendors and see the next wave of exciting technical advances. However, you don't have to take our word for it. We reached out to some of the corporate sponsors and asked them why you should visit their booths and what they can do for you. Here are their answers.

## WHY GO TO YOUR BOOTH?



*We at Accuray also believe in patients being first. Customers tell us there is a clear difference in our culture than that of other companies — that we are focused on the details of enhancing patient experiences and improving quality of life; that we truly act as partners in helping our customers achieve these outcomes. That commitment is reflected in our technologies.*

*Our patient-first innovations help improve patient setup, comfort and enhance your patients' experience. Our highly personalized and precise treatment plans maximize dose delivery to the target while preventing healthy organ damage and minimizing side effects. We want to discuss these solutions that allow your teams to work faster and smarter and improve throughput, without cutting corners or negatively impacting patient care.*



*Visitors to Elekta's booth at RTC will meet their Elekta partners and learn how we are a leading innovator of precision radiation medicine, which means more than our innovative product offerings. Since our inception, we have taken an "outside-in" approach to innovation that is based on close collaboration with those devoted to caring for cancer patients. We design our products to meet their needs. Then, we support collaborative forums and educational events to foster shared insights and to advance knowledge and skills essential for success and the improved quality of patient care in the clinic.*

*We look forward to visiting with our current colleagues and meeting new ones. See you there!*



*Stopping by the Bionix Booth is an opportunity to learn about Accutatt, a sterile, single use medical tattoo device that will change the way your practice administers tattoos. Accutatt allows you to standardize and safely administer tattoos to patients undergoing radiation therapy.*

*For over 35 years, Bionix has provided effective simple and easy to use devices, and we are committed to enhancing the patient experience.*



*As a professional manufacturer, Guangzhou Renfu Medical Equipment Company regards this as a great chance to interact with radiation therapists and increase our knowledge of advanced techniques. In return, we'd like to share the experience of thermoplastic positioning products. We hope attendees will gain a deeper understanding of Guangzhou Renfu Medical and the products we offer.*



*Stop by our booth if you or someone you know is interested in becoming a medical dosimetrist. Our unique hybrid program and part-time track set us apart from other schools, creating a strong community and allowing students to continue working.*



*The ASRT Conference is where we launch our most important products each year. It is the best opportunity for us to share the hands-on applications of our latest technologies. We hope to show attendees that Klarity is working to make their jobs easier and improve their patients' lives by providing products that are thoughtful, well-designed and better in every way.*



## varian

*The field of radiation therapy has never been more exciting. The time for adaptive therapy is now, and the two groups most impacted by this innovative technology are medical dosimetrists and radiation therapists. As professionals, we should grasp the opportunity and rise to the challenge of taking cancer treatments to a whole new level. What is being shown by Varian will revolutionize patient care. Radiation therapists and dosimetrists should be front and center participating in this change.*

*We are passionate about ensuring all patients and their families have access to the best cancer care and we are committed to our vision of a world without fear of cancer.*



*We know that RTC attendees are looking to find solutions and gain actionable insights to take back to their facilities. A visit to the Mirion Technologies/Instadose booth will arm you with a better way to safeguard your health and reduce radiation exposure risks. Instadose dosimeters represent the latest in personal radiation monitoring technology. They offer on-demand Bluetooth-enabled dose reads, anytime access to dose data and reports, automatic high-dose alerts, and online account management and badge reassignments. Best of all, you keep your badge! No more collecting, returning and redistributing badges every wear period.*

*We hope you come away from our booth with a better understanding of how the Instadose dosimetry platform can help safeguard your health, and create a more efficient, effective and compliant radiation dosimetry monitoring program — saving time and money.*

## visionrt

*You are invited to our booth to see how artificial intelligence supports patient satisfaction through the entire radiation treatment journey. Come see how Vision RT's products are making the jobs of radiation therapists easier while elevating patient care.*



*Staying up-to-date with radiation oncology billing and coding is vital to the success of your business. With our clinical backgrounds, our team is well-equipped to guide you through the ever-changing health care landscape and make sure your billing and compliance goals are met.*

*We have supported ASRT and its membership for 12 years. With many of our team members being clinically trained, we understand the challenges radiation therapists and medical dosimetrists face on a daily basis. We welcome the opportunity to share our knowledge and experiences with other oncology professionals to ensure proper and up-to-date documentation, accurate coding, billing and compliance is being followed.*

*In addition, Revenue Cycle Coding Strategies is a trusted resource for answers to your reimbursement questions. Our consulting team provides a wealth of knowledge, which it shares through an array of educational opportunities designed to integrate compliance with performance and efficiency.*




*Radii is modern patient positioning. Before we bring a new product to market, it must first improve upon what is currently available in the industry. This ensures that we are not focused on radiation therapy's past and outdated patient positioning, but rather its future.*

*Radii provides features and benefits not available anywhere else. See how with the Serenity Series SBRT Platform that allows you to adjust the platform to your patient, not your patient to the platform.*




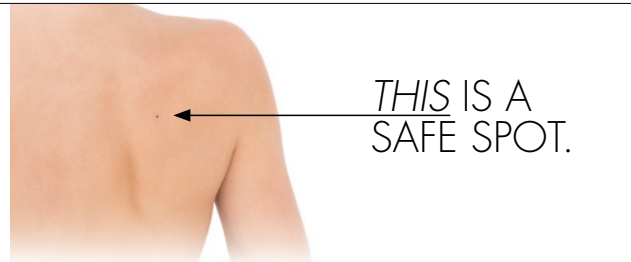
*Our innovative products will not only help you provide better treatments for your patients, they will make your job easier. Stop by the MacroMedics booth and see for yourself; you'll leave wondering why no one thought of these products before.*



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### Call for Abstracts



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Visit [asrt.org/speak](http://asrt.org/speak) to offer your ideas. You can send in your abstract between Oct. 1, 2019, and Feb. 17, 2020. We'll let you know by May 1, 2020, whether you were selected to present. If you aren't ready to take the plunge but know a radiation therapist, medical dosimetrist, oncologist, physicist or other professional dedicated to cancer care who would make a good presenter, send his or her contact information to [abstracts@asrt.org](mailto:abstracts@asrt.org). We're open to all submissions.



# 5 P O P Career-Boosting Programs To Make Your Résumé

## 1 International Speakers Exchange Award

Each year, the International Speakers Exchange Award program provides the opportunity for two outstanding ASRT members to travel to a conference in the U.K. or Canada and present their work to an international audience of their peers and other related health care professionals. Award recipients have attended the United Kingdom Radiological Congress in Liverpool, England, as well as the CARO-COMP-CAMRT Joint Scientific Meeting in Montreal.

ISEA 2020 applications are currently open and must be submitted by Oct. 31, 2019.

## 2 Research Grants

We support new ideas and practices to strengthen your profession. As a result, we've developed a three-tiered research grant program to serve the needs of both the seasoned researcher and those who are new to scientific research and writing.

Experienced researchers have the flexibility of applying for a grant in one of two funding levels, up to \$10,000 or up to \$25,000.

For aspiring researchers who haven't received a previous research grant and who haven't been a first author on a research publication, we offer the New Researcher Grant. This grant provides awards of up to \$3,000 and professional development resources to help boost writing skills. The Emerging Researcher Grant is available for a researcher who has received up to one previous grant. This grant provides awards up to \$4,000.

The Foundation continually accepts letters of intent and applications. These submissions are considered for funding twice annually.

To apply for funding in the spring, submit your application by Jan. 25, 2020. To apply for funding in the fall, submit your application by June 27, 2020.

## 3 Education Scholarships

Being on the front lines of rapidly changing protocols, radiation therapists and medical dosimetrists must commit themselves to being lifetime learners.

The Foundation offers distinct scholarship programs focused on funding continuing education for radiation therapy and medical dosimetry professionals.

These include the Marie L. A. Racine Scholarship, the Radiation Therapy Pioneers Scholarship, the Elekta Radiation Therapy Scholarship and the Varian Radiation Therapy Advancement Scholarship.

With the support of our corporate sponsors, the Foundation was able to award more than \$100,000 in scholarships to radiation therapists and medical dosimetrists just this past year, making it possible for students and career professionals to work toward their educational dream.

Scholarship applications will be accepted from Nov. 1, 2019 to Jan. 31, 2020.

## 4 Professional Growth Programs

The Foundation currently offers two specific programs – the ARRT Advancing Your Profession: Education and Professional Growth Grant and the Siemens Healthineers Education Journey Award – to help offset the cost of continuing education.

The Advancing Your Profession Grant awards up to a \$500 reimbursement to a member of an active affiliate each year that can be used for continuing education products, educational conferences, or ARRT primary or secondary certification exams. Additionally, affiliate membership fees are reimbursed. Each year, the Siemens Healthineers Education Journey Award gives three lucky ASRT members \$4,000 to attend a conference from a select list.

The ASRT Foundation is here to support and empower you in your professional development. Our professional growth programs stand out on your résumé and can help differentiate your expertise from that of other job applicants, giving you a better shot at that coveted position



## 5 International Outreach Fellowships

Our international outreach programs provide the opportunity for radiation therapists and medical imaging technologists to participate in medical relief projects in underserved communities around the world. The International Outreach Fellowship grants provide funding for airfare, visas, hotels, immunizations and more, allowing participants to focus on making critical improvements in hospitals around the world.

Through our partnership with RAD-AID International, the Foundation has helped send radiation therapists and radiologic technologists to cancer clinics around the globe.

For more information about Foundation programs, stop by the ASRT Foundation booth or visit [foundation.asrt.org/programs](http://foundation.asrt.org/programs).



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# Intelligent Cancer Care

## Intelligent Adaptive Therapy Coming to the Clinic

**New cancer cases are projected to increase to 24 million annually by 2030.** It is estimated that about half of cancer patients can benefit from radiation therapy as part of their treatment, yet access to advanced radiation therapy is not available in much of the world because of resource limitations.\* Making safe, effective, and personalized radiation therapy easier to plan and deliver is essential to closing the gap between mounting need and constrained access.

The solution lies in intelligence—intelligence that automates routine and repetitive tasks, helps machines and software learn and adapt to new information, and makes systems satisfyingly easy and efficient to use, as well as more affordable. Varian is working closely with partners around the world to discover and develop the smartest ideas in cancer care because we are committed to bringing intelligence to the point of care from diagnosis to survivorship.

## Intelligent Adaptation During Radiation Therapy

Clinicians have wanted the ability to adapt radiation therapy treatments to changes in patient anatomy over time. Until now, adaptive treatment has required time-consuming re-planning between treatment sessions, or keeping the patient on the table and monopolizing a delivery system while new plans are generated. Neither of these alternatives is practical at scale. The process takes too much time and is too complex. Clinics often do not have the resources despite having the tools. However, the barrier to adaptive therapy is about to be eliminated.

Varian is introducing a new intelligent adaptive therapy that would, if cleared by the US Food and Drug Administration (FDA), involve the use of artificial intelligence and machine learning to create contours and adapted plans for physician review in minutes while a patient is on the treatment couch. The Varian solution is being designed to allow a physician to choose which plan to deliver, and the treatment, from beginning to end, would be deliverable within a regularly scheduled appointment timeslot.

"Varian's intelligent adaptive therapy is envisioned to cover the breadth of the radiation therapy process from capturing the prescription to delivering and monitoring the treatment so that the clinician can be confident that therapy is progressing as expected," said Yves Archambault, director of strategic initiatives at Varian.

To advance the worldwide adoption of intelligent adaptive therapy, Varian supports the work of an Adaptive Intelligence Consortium, a community of clinicians and scientists from leading cancer clinics across the globe. The consortium will lead clinical trials to develop evidence-based clinical protocols for Varian's coming adaptive intelligence therapy solution and minimize the need for individual clinics to develop their own methods and practices. This fits with Varian's goal of bringing intelligence to every important point on a cancer patient's journey towards survivorship.

**varian**

*This discussion of Varian's potential intelligent adaptive solution involves a work in progress for which there is no guarantee of ultimate commercialization or, if marketed, what features will be available in any commercial product.*

\* Atun R, Jaffray DA, Barton MB, et al. Expanding global access to radiotherapy. *Lancet Oncol.* 2015;16(10):1153-1186. doi: 10.1016/S1470-2045(15)00222-3



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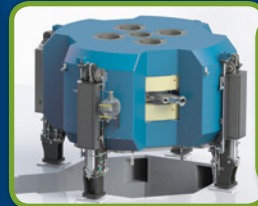
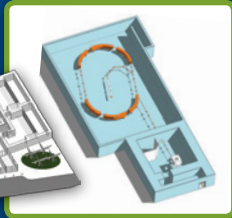


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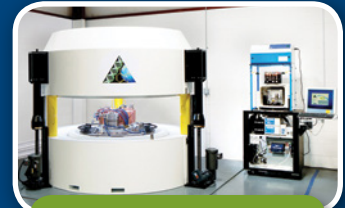
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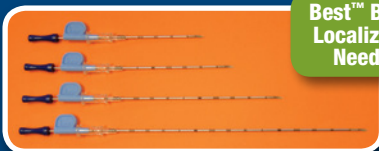
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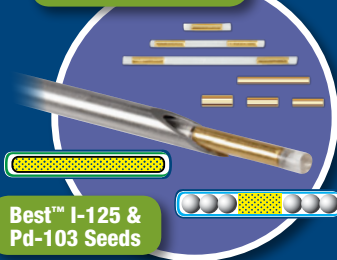


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