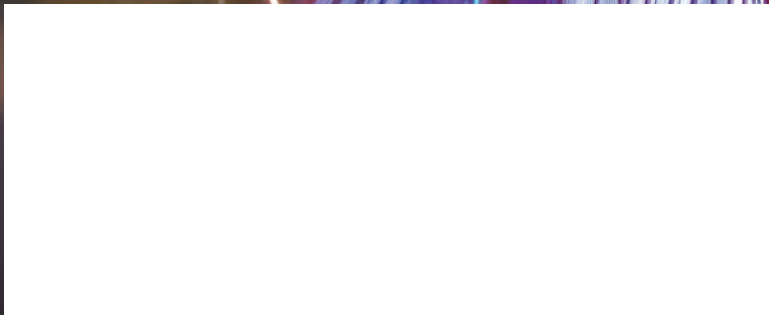


# ASTRO *news*

FALL 2022

YOUR GUIDE TO THE

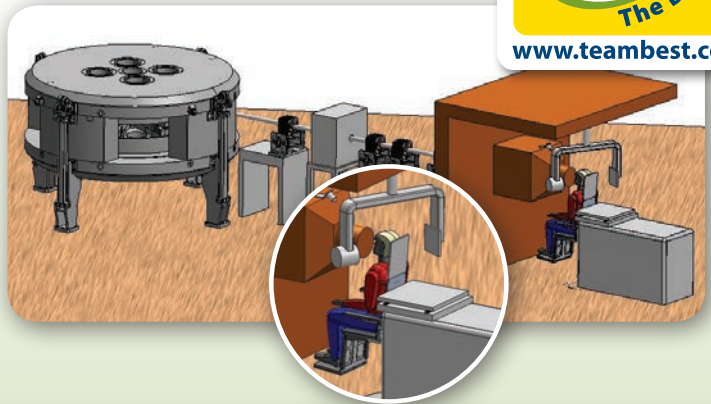
**2022 ANNUAL MEETING**





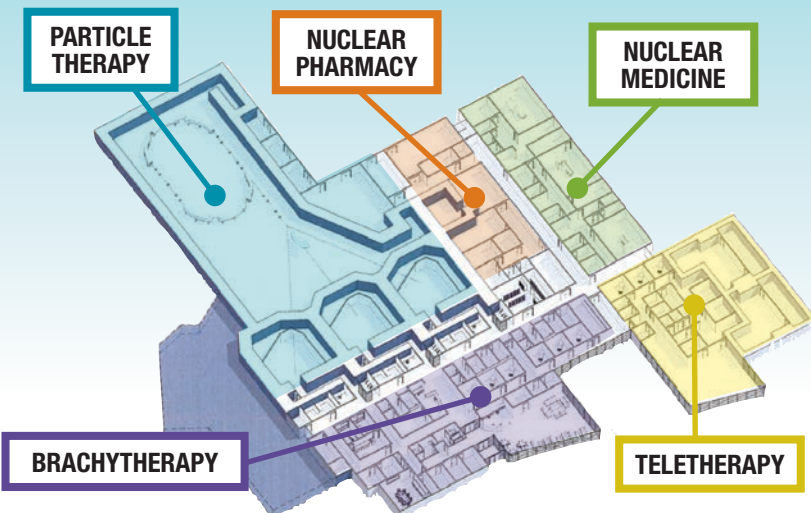
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<b>NEW Best Cyclotrons</b>	<b>1–3 MeV</b>	Deuterons for materials analysis (Patent Pending)
	<b>70–150 MeV</b>	For Proton Therapy (Patent Pending)
	<b>3–90 MeV</b>	High current proton beams for neutron production and delivery (Patent Pending)
<b>Best 15p Cyclotron</b>	<b>1–15 MeV</b>	Proton only, capable of high current up to 1000 Micro Amps, for medical radioisotopes
<b>Best 20u/25p Cyclotrons</b>	<b>20, 15–25 MeV</b>	Proton only, capable of high current up to 1000 Micro Amps, for medical radioisotopes
<b>Best 35p/35adp Cyclotrons</b>	<b>15–35 MeV</b>	Proton or alpha/deuteron/proton, capable of high current up to 1000 Micro Amps, for medical radioisotopes
<b>Best 70p Cyclotron</b>	<b>35–70 MeV</b>	Proton only, capable of high current up to 1000 Micro Amps, for medical radioisotopes
<b>Best 150p Cyclotron</b>	<b>From 70 MeV up to 150 MeV</b>	For all Medical Treatments including Benign and Malignant Tumors, Neurological, Eye, Head/Neck, Pediatric, Lung Cancers, Vascular/Cardiac/Stenosis /Ablation, etc. (Patent Pending)

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**WELCOME!**

TO ASTRO'S 64TH ANNUAL MEETING

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# Your Clear Choice



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Craniospinal



Whole  
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Breast



SBRT



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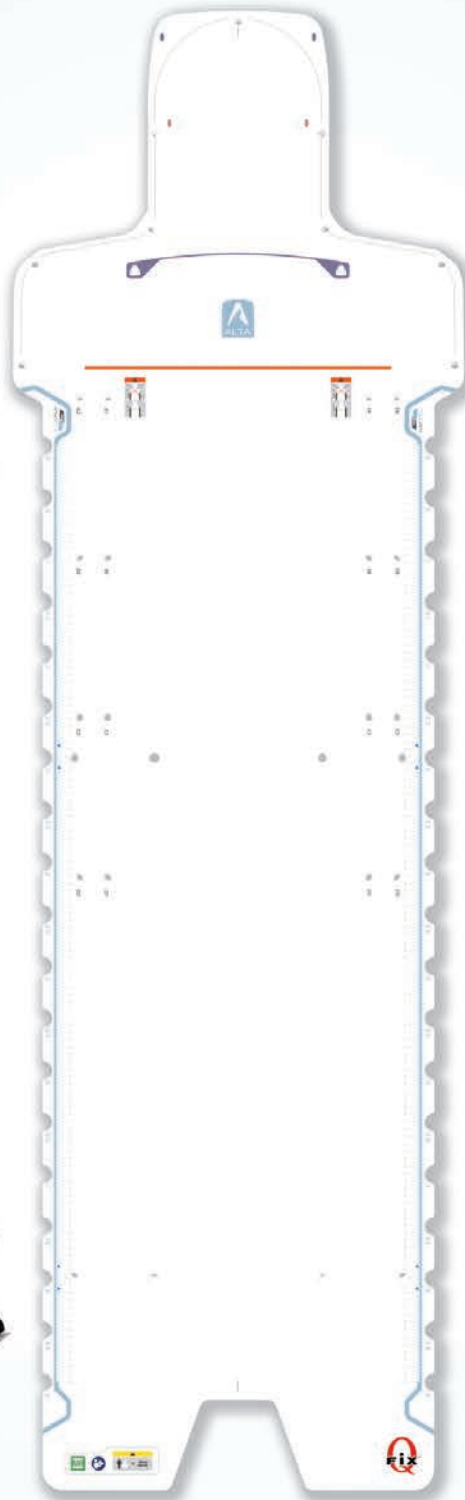
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# ASTRO news

AMERICAN SOCIETY FOR RADIATION ONCOLOGY

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## Editor's Notes

BY NAJEEB MOHIDEEN, MD, FASTRO, SENIOR EDITOR, *ASTROnews*

### Back Together Again

**IT TAKES A VILLAGE** to put together the ASTRO Annual Meeting. A vast effort goes into planning, coordination, evaluating the science, curating the educational content and much more to make the Annual Meeting a reality. For us, the radiation oncology community, it's an opportunity to convene under a "Big Tent," to hear about exciting new research and discuss and debate the future of our discipline. To be sure, as America faces up to the consequences of the overturning of the *Roe vs. Wade* ruling, having San Antonio as this year's host city has sparked controversy, given the position of the state of Texas on abortion.

In an unprecedented move, the Red Journal published a series of editorials to address the key health care issues on the *Dobbs vs. Jackson* Supreme Court decision. The ASTRO Board of Directors has sought to clarify the view of the Society and answer questions about the Annual Meeting location. See the editorials at [www.redjournal.org](http://www.redjournal.org). Decisions about meeting locations are made years in advance and it's near impossible to move the largest radiation oncology meeting in the world at short notice for a variety of reasons.

In consideration of the reservations, and in order to accommodate everyone, ASTRO is expanding the virtual offering to give complete access to the entire meeting, which will be fully livestreamed for the first time this


year. Going through this issue of *ASTROnews* I can see that we have an outstanding meeting in store for us. Plus, the ASTRO Bistro is back!

ASTRO President Geraldine Jacobson's Presidential Symposium will focus on the meeting theme of AI and EI: Caring for the Patient in a Wireless World with sessions highlighting scientific advances in artificial intelligence and biology, alongside a session that highlights the importance of emotional intelligence. It will be fascinating to see how we can leverage technology to help improve patient experience and outcomes. Are we any closer to the holy grail of being able to perceive, understand and empathize with human emotions in a psychological context with AI, so that it enhances patient care? A dazzling array of experts will enlighten us. (I'm especially intrigued about a talk on "digital empathy.") The Practical Radiation Oncology (PRO) and ARRO programs will provide content addressing issues specific to clinicians and residents. This year, the popular PRO program is open to all registrants — the sessions start the morning of October 22.

We have exciting keynote speakers such as Ruha Benjamin, PhD, and Richard Deming, MD (see Key Sessions and Highlights, page 14, for details). I am also looking forward to the Speed Mentoring event on Tuesday afternoon; be sure to stop by a table to meet and talk with different

mentors (details on page 19).

The Award ceremony is always a highlight. Congratulations to the 2022 ASTRO Gold Medalists — Tim R. Williams, MD, FASTRO and Wendell Lutz, PhD. Tim, one of my mentors and a former ASTRO president and chair, championed the Target Safely initiative and the ASTRO Strategic Plan and is a health policy expert who did yeoman's work to refine the specialty's practice expense inputs. Dr. Lutz is a medical physicist who is known for his pioneering effort in the development of a linac-based stereotactic radiosurgery system that has been adopted worldwide for quality assurance in radiation therapy. Felicitations also to all the newly minted ASTRO Fellows. Sadly, we lost Dr. Herman Suit, a giant in our field. Anthony Zietman writes about his outstanding contributions and inspiring life in a poignant tribute on page 11.

I hope you will consider attending ASTRO 2022, virtually or in person. There is something to be said for getting back together again after more than two years of a health crisis, the likes of which the world hasn't witnessed for a long time. If nothing else, the pandemic showed how vital medicine and research are to the health of the world. Do come to San Antonio, meet up with old friends, welcome new ones to the community, and above all be enthralled by the science. See you there! 



## Chair's Update

BY LAURA A. DAWSON, MD, FASTRO, CHAIR, BOARD OF DIRECTORS

### A Year in Review in a Changing World

**AS THE ASTRO 2022** Annual Meeting approaches, I smile as I remember the ASTRO 2021 Annual Meeting, which was the highlight of my presidential year. The 2021 meeting tagline, Embracing Change, Advancing Person-Centered Care, has been a backbone behind decisions that have been made in the past year at ASTRO. There are benefits to accepting a culture of continuous change to improve how we treat patients, rethink how we function, educate, innovate, fund research and complete practice changing clinical trials more effectively.

Change and uncertainty are uncomfortable for many of us (myself included), in part because they are associated with a risk of “failure,” a term that is shunned in our field. Rather than aiming for perfection, perhaps we should have more tolerance for risk and consider unanticipated results as opportunities. This is easier said than done, especially as workplace turnover and wellness continue to be a challenge, and since we may be overwhelmed by outside uncontrollable change, such as war, climate change and inflation.

By sticking together and supporting each other in our radiation oncology family, we are more likely to come out stronger following challenging times. ASTRO is working on being more transparent, building trust and welcoming opinions that challenge the status quo. We continue to work on communicating through various channels and appreciate feedback on initiatives such as the ASTRO infographics and blogs.

Some initiatives and changes that ASTRO has made in the past year include:


- A Workforce Task Force was created.
- A Council on Health Equity, Diversity, and Inclusion (HEDI) was initiated with two seats on the Board of Directors.
- A new position of ASTRO HEDI director was created (welcome Kirsta Suggs!).
- An ASTRO Early Career committee was approved, with an ex-officio seat on the Board of Directors.

- Collaborations with other societies are being enhanced (e.g., AAPM, NRG, ACS, etc.).
- The number of ASTRO research and summer studentship awards has increased.
- For the first time, two women were awarded the ASTRO Gold Medal: Colleen Lawton MD, FASTRO, and Lori Pierce, MD, FASTRO.

In order to foster the Society's Core Value of Diversity and Inclusion and the Board-supported efforts of our new HEDI Council, I encourage all ASTRO members to update the demographic profile in their member account. Demographic categories are being continuously refined and updated to better understand the representation and inclusion of all our communities.

The ASTRO 2022 theme, AI and EI: Caring for the Patient in a Wireless World, is so timely as advances and benefits of artificial intelligence (AI) in a digital world are just starting to come to fruition, and many are experiencing some burnout and/or moral injury after these challenging past few years.

I look forward to seeing many of you in San Antonio at the ASTRO 2022 Annual Meeting focusing on AI and emotional intelligence (EI) and interacting virtually for those who will not be traveling to the meeting in person. There were more than 40 late breaking abstracts submitted to the meeting (wow!), so the Plenary and Clinical Trials sessions are sure to be exciting. I am particularly looking forward to Master Classes on Leading Up and Unconscious Bias.

Improving our EI and having empathy for each other is as important as ever, as we never know what others may be experiencing in their personal, family or work lives that may alter their mood or actions. Let us make time to share experiences and ideas, and professionally and respectfully debate how to best improve how we treat our patients. Safe travels! 



# President's Update

BY GERALDINE JACOBSON, MD, MPH, MBA, FASTRO, ASTRO PRESIDENT

## Welcome to San Antonio

### WELCOME TO ASTRO'S 64TH ANNUAL MEETING

in San Antonio! 2022 has been another year of unprecedented change, with reverberations of the pandemic, supply chain and travel disruptions and policy changes that impact our travel plans. To meet the needs of our members, registration for both the in-person and virtual meeting will include access to all SA-CME sessions, the Practical Radiation Oncology (PRO) program, and the entire meeting onDemand.

The theme of this year's meeting is Artificial Intelligence and Emotional Intelligence: Caring for the Patient in a Wireless World. The daily practice of radiation oncology has been transformed by technological innovation and will continue to evolve in ways we can only imagine. The core of our practice, to provide care for our patients, will continue to be enhanced by our human skills of communication and empathy. The future of our specialty and our role in cancer care will be impacted by our human skills of collaboration, communication and advocacy. This year's meeting will explore multiple aspects of these interrelated themes, presented by a diverse and amazing group of speakers.

We will open with the popular PRO program on Saturday and Sunday, designed to accommodate the schedules of our community practice radiation oncologists. We will continue our Annual Meeting tradition of presenting the top science in the field, practice changing research and a full educational program.

The Presidential Symposium on Sunday afternoon will explore the meeting themes in depth. The artificial intelligence (AI) sessions will include applications of AI to the radiation oncology clinic, frameworks for ethical AI in medicine, how AI can improve diversity and access in clinical trials, and its impact on education.

The session on prevention and mitigation of radiation toxicity will discuss factors associated with risks of late effects, normal tissue injury in the cardiovascular and central nervous system and countermeasures, and clinical trials of risk assessment. The fourth and final session of the Presidential Symposium will focus on the role of our human interactions in enhancing health outcomes. We will hear about doctor-patient communication, the sexual

self and quality of life in cancer patients, and how to project empathy in our current medical environment. A role-play panel will highlight cognitive biases and emotional intelligence in radiation oncology. The closing talk will discuss the role of hope, meaning and quality of life.

Our keynote speakers

exemplify the dual focus of our meeting theme. Ruha Benjamin, PhD, a sociologist and professor at Princeton University, will discuss the potential for clinical algorithms and technology to inadvertently deepen discrimination and amplify inequalities. Richard Deming, MD, a private practice radiation oncologist and founder of the non-profit foundation Above + Beyond Cancer will talk about optimal living in survivorship.

Master Classes, Storytelling, Quick Pitch and Poster sessions offer additional educational opportunities in varied formats. The in-depth Master Classes will include three new offerings as well as an updated course on radiopharmaceutical therapy. Clinical Trial Design-Noninferiority Trials may serve as a "guide for the perplexed" for the non-statisticians among us. Goalsetting, Difficult Conversations, and Leading "Up" should be valuable for navigating our professional lives. Centering on Equity: Reflecting on Unconscious Bias, Dominant Culture and Privilege will educate us about the invisible and powerful impact of bias in our society and relationships.

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"The core of our practice, to provide care for our patients, will continue to be enhanced by our human skills of communication and empathy."

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The Storytelling Sessions will cover an array of professional topics of interest to our attendees, including education, equity, physician burnout and patient safety.

For those attending virtually, we hope you find this a rewarding and convenient experience and take advantage of your access to the livestreaming and onDemand materials.

For those attending in person, welcome to San Antonio! It has always been one of my favorite cities to visit. It is lively, multicultural and easy to navigate. The River Walk, in the heart of the city, is full of dining, walking and cultural experiences. The Alamo, a historic Spanish mission, is an iconic historical site located in downtown San Antonio. The city has excellent museums, gardens and restaurants. I always enjoy exploring the Pearl, a community just north of downtown and named after a historic brewery. It's home to shops, restaurants and a campus of the Culinary Institute of America. This is a city you can enjoy on your own, with family or friends and colleagues.

Best wishes for a great meeting experience! 

*ASTRO leadership appreciates our members' concerns regarding the location of the Annual Meeting. Decisions about meeting locations are made nearly 10 years in advance and attempting to move the Annual Meeting to a new city at this late date would have significant financial implications, in addition to the near impossible task of finding a location that could accommodate the size and scope of our meeting. ASTRO leadership is holding ongoing discussions on future meeting locations and continues to keep these considerations at the forefront of our decision-making process. For those of you who choose to not travel to Texas, we respect your decision and hope you take advantage of our expanded virtual offering to give you complete access to the entire meeting, which will be fully livestreamed.*

# San Antonio



## HISTORIC MISSIONS

San Antonio Missions National Historical Park includes the city's four southernmost Spanish colonial missions: Concepción, San José, San Juan and Espada.

## THE ALAMO

Originally known as Misión San Antonio de Valero, and part of Missions National Historical Park, offering interactive tours and exhibits.



## HISTORIC MARKET SQUARE

A three-block outdoor plaza lined with shops and restaurants, Historic Market Square is the largest Mexican market in the United States.

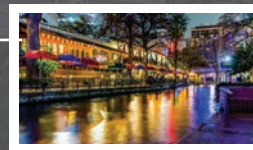
## SPANISH GOVERNOR'S PALACE

A National Historic Landmark, the last visible trace of the Presidio San Antonio de Bexar and the only remaining example in Texas of an aristocratic 18th-century Spanish Colonial town house.



## RIVER WALK

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# SOCIETY NEWS

## ASTRO elects new leadership for 2022-2023

Seven new officers have been elected to serve on the ASTRO Board of Directors. The new officers' terms will begin on October 25, 2022, immediately following the Annual Business Meeting. The new members of the Board are:



### **PRESIDENT-ELECT**

**Howard Sandler, MD, MS, FASTRO**  
*Cedars-Sinai Medical Center, Los Angeles*



### **SECRETARY/TREASURER-ELECT**

**Michael Kuettel, MD, PhD, MBA, FASTRO**  
*Roswell Park Cancer Institute, Buffalo, New York*



### **HEALTH EQUITY, DIVERSITY AND INCLUSION (HEDI) COUNCIL CHAIR**

**Iris C. Gibbs, MD, FASTRO**  
*Stanford Medicine, Stanford, California*



### **HEALTH EQUITY, DIVERSITY AND INCLUSION (HEDI) COUNCIL VICE-CHAIR**

**Curtiland Deville Jr., MD**  
*Johns Hopkins Medicine, Kimmel Cancer Center, Washington, DC*



### **CLINICAL AFFAIRS AND QUALITY COUNCIL VICE-CHAIR**

**Douglas Martin, MD, FASTRO**  
*Ohio State University Wexner Medical Center, Columbus, Ohio*



### **EDUCATION COUNCIL VICE-CHAIR**

**Chelsea Pinnix, MD, PhD**  
*The University of Texas MD Anderson Cancer Center, Houston*



### **GOVERNMENT RELATIONS COUNCIL VICE-CHAIR**

**Casey Chollet-Lipscomb, MD**  
*Tennessee Oncology, Nashville, Tennessee*

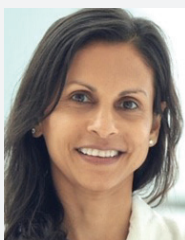
ASTRO leadership is in the process of updating our Strategic Plan to better reflect today's environment and guide ASTRO in the coming years. We are pleased to announce the updated Mission and Vision.

#### **MISSION**

ASTRO's mission is to advance the specialty of radiation oncology through promotion of equitable, high-quality care for people with cancer, cultivating and educating a diverse workforce, fostering research and innovation, and leading policy development and advocacy.

#### **VISION**

Improving the lives of people with cancer with radiation therapy.



### Treasurer's Report

Although the coronavirus pandemic continued into 2021, with careful planning and the safety of all at the forefront, I am pleased to report that ASTRO held a 2021 in-person Annual Meeting in Chicago, highlighting the importance of embracing change and the rapid advancements in radiation oncology to provide high-quality patient care. The enthusiasm of being together again in person was extraordinary, and those who were unable to travel to Chicago had an opportunity to learn about the latest science and participate in educational offerings through the virtual meeting.

Through its strong leadership, ASTRO was able to mitigate the fiscal impact of the operating loss to -8%. After accounting for strong investment returns, an accrued 2020 Annual Meeting event cancellation insurance claim, Board designated activities, and qualified government stimulus funds, ASTRO produced a profit of \$6.25 million, or 34%, in 2021.

In 2021, ASTRO engaged a new financial advisor, Marquette Associates, and continued to maintain a diverse investment portfolio. Together with the prudent decisions from the Finance/Audit Committee to overweight equities, underweight fixed income and increase exposure to real estate, ASTRO's portfolio earned \$6.0 million or a 15.1% return (net of fees).

ASTRO re-engaged its previous auditor, Marcum, to perform an independent audit of ASTRO's 2021 consolidated financial statements (ASTRO, ROI and ASTRO PAC). The auditors expressed an unmodified, "clean opinion," the highest opinion available. ASTRO's Finance/Audit Committee, which meets regularly to discuss investment and other financial matters, reviewed the report in detail with the auditors. The report was submitted and approved by ASTRO's Board of Directors in June 2022.

### Profit and loss statement

Operating income was \$18.3 million, with meeting income representing 45% or 8.3 million (including Annual Meeting at \$7.5 million); membership dues of 21% or \$3.8 million; and journals revenue representing 16% or \$3.0 million of the total 2021 operating revenue. With operating expenses of \$19.7 million, ASTRO posted a \$1.4 million loss from operating activities. However, ASTRO's investment portfolio performed well, generating \$6.0 million or a 15.1% return net of fees, during 2021. In addition, the \$1.3 million in estimated proceeds for ASTRO's 2020 Annual Meeting event cancellation insurance claim submission and \$405 thousand from its 2020 Employee Retention Tax Credit (ERTC) submission helped ASTRO post a \$6.25 million profit for 2021.

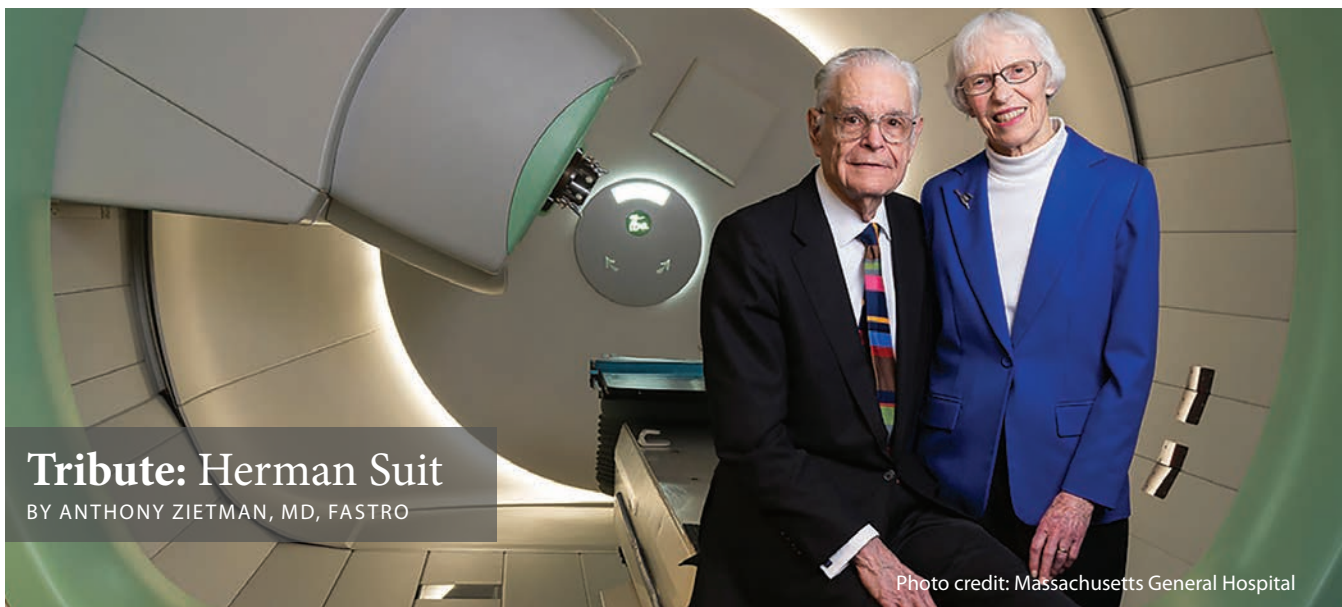
### Balance sheet

As of December 2021, ASTRO's net assets were \$41.8 million, including \$17.5 million or 42% in Board designated funds and was comprised of \$51.9 million in assets and \$10.1 million in liabilities. As of December 31, ASTRO's long-term portfolio value was \$44.6 million, representing 86% of total assets. Accounts Payable, the largest component of liabilities, was \$3.3 million and included a \$1.74 million Paycheck Protection Plan loan, which was completely forgiven during the second quarter of 2022. Deferred revenue represents \$3.0 million of liabilities, as ASTRO members and exhibitors made prepayments toward 2022 membership dues and exhibit booths.

As the world continues to transition into new and hopefully more manageable phases of the pandemic, ASTRO maintains its strong commitment to serve members and to continue to invest in programs and services that meet the needs of our specialty. ASTRO is pleased to be holding the 64th Annual Meeting in San Antonio in October 2022, which will highlight AI & EI: Caring for the Patient in a Wireless World. I look forward to seeing you there.

**Neha Vapiwala, MD, FASTRO**

*ASTRO Secretary/Treasurer*



## Tribute: Herman Suit

BY ANTHONY ZIETMAN, MD, FASTRO

Photo credit: Massachusetts General Hospital

**HERMAN SUIT, MD, FASTRO**, passed away in July at the age of 93. Herman was the great father figure of the Department of Radiation Oncology at Massachusetts General Hospital (MGH) in Boston, and one of the colossi of American oncology. He lost his beloved wife and partner Joan in 2021 and, since then, relocated to an assisted living community close to family in California.

Herman was born in Waco, Texas, went to medical school at Baylor University, and then, in the 1950s, made the trans-Atlantic leap to Oxford University where he was trained in oncology by the charismatic Frank Ellis. He returned to Texas and the MD Anderson Cancer Center three years later, before coming to MGH in 1972 as chief of the Department of Radiation Oncology, a role he served for more than a quarter of a century. He served as President and Chair of ASTRO from 1980-1982, leading the Society through its first strategic plan and a large growth period.

Herman's legacy is so large and pervasive that it cannot be measured. He developed much of the evidence, from both animal and human studies, that has underpinned the safe use of radiation therapy in the modern era. His concern about late effects drove him to search out techniques that are now such a standard part of our practice that we almost give them no thought at all. These include judicious fractionation, radiation doses that relate to tumor volume and type, shrinking fields and the integration of radiation with surgery or chemotherapy. Soft tissue sarcomas,

previously only amenable to radical surgery, became candidates for combination therapy, and the sparing of young limbs went from dream to norm. Most of all, he will be remembered for his maverick vision that the use of proton beams stood to move radiation therapy and cancer care forward, not incrementally, but in a great bound.

In the 1970s, Herman was the first to use protons in a fractionated fashion on patients at the old Harvard Cyclotron in Cambridge, Massachusetts. During that time, he recruited another brilliant mind, the physicist Michael Goitein, PhD, FASTRO, and together they developed the systems necessary to employ proton beam routinely in the clinic. They pushed, they cajoled, they never took "no" for an answer, but above all else, they used

evidence to shake the inertia of the traditionalists and naysayers. Herman gathered around him an extraordinary stable of young clinicians. These trainees became "evangelists" for his philosophy of precision radiation therapy and advocates for the use of proton beam. Half a century

later, this therapy has become standard around the globe, and Herman remained, to the last, its very proud parent.

A particularly enchanting aspect of Herman's character was his complete disregard for national boundaries. He traveled the world and wherever he found bright young investigators he immediately sought to recruit them to the MGH. England, Australia, Yugoslavia, Egypt, Japan,

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"Herman's legacy is so large and pervasive that it cannot be measured."

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*Continued on following page*

# CORPORATE AMBASSADORS

ASTRO PROUDLY RECOGNIZES  
THE ONGOING COMMITMENT OF OUR CORPORATE  
AMBASSADORS FOR THEIR OUTSTANDING  
YEAR-ROUND LEADERSHIP AND PROMOTIONAL  
SPONSORSHIP OF RADIATION ONCOLOGY.

ACCURAY

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## SOCIETY NEWS

it didn't matter. The tougher the visa, the better. He was a team scout seeking talent in improbable places. The clinic, the lab, even the residency program, were like the United Nations, with heavily accented English the lingua franca. Some stayed in the U.S., many returned to their own countries, but almost all went on to become international leaders in radiation oncology.



Carlos Perez passes the gavel to Herman suit at the 1981 Annual Meeting in Miami.

He and Joan never had children themselves; their trainees were their family. They were extraordinarily generous, but never made a show of this side of their character. Thanksgiving at the Suits' brought together the international fellows and the waifs and strays among the residents who had no family nearby. They regularly gave front row theater and ballet tickets to the trainees, and many of us had our introduction to the arts through them. So dedicated were they to the primacy of science and education that they funded a laboratory for middle and high schoolers at the Museum of Science.

Herman has left an indelible stamp as an oncologist, taking the practice of radiation therapy from infancy to maturity. He was a "larger than life" figure, and all who were touched by him as colleagues, trainees or patients have come away blessed. Herman will now join his beloved Joan, and may they forever rest in peace. 🇺🇸

## *In Memoriam*

ASTRO has learned that the following members have passed away. Our thoughts go out to their family and friends.

**William C. Dewey, PhD, FASTRO**  
*San Francisco*

**Jerome Landry, MD, MBA**  
*Atlanta*

**Herman D. Suit, MD, FASTRO**  
*Boston*

The Radiation Oncology Institute (ROI) graciously accepts gifts in memory of or in tribute to individuals.

For more information, visit [www.roinstitute.org](http://www.roinstitute.org).






## New committee to focus on needs of early career radiation oncologists and physicists

**TO BETTER UNDERSTAND** and fulfill the needs of early career radiation oncologists and physicists, defined as up to eight years post-training, the ASTRO Board of Directors unanimously approved the recommendation of the Early Career Work Group, led by Austin Sim, MD, JD, to establish an ASTRO Early Career Committee. This committee will identify and develop resources targeted to support the unique needs of this membership cohort, represent early career membership on other ASTRO committees and create a space for peer mentorship and networking.

A call for volunteers was issued this summer and approximately 12 volunteers representing the diverse population of this cohort will be selected to serve as inaugural committee members. These committee members will elect a chair and vice chair. The chair will be invited to attend ASTRO Board of Directors meetings as an ex-officio representative.

Additionally, a peer community will be set up on the *ROhub* to keep early career members apprised of and engaged in the workings of this committee. 

**UK HealthCare**  
MARKEY CANCER CENTER  
An NCI-Designated Cancer Center

**A CANCER-FREE TOMORROW. TOGETHER.**

Researchers working hand-in-hand with clinicians. Groundbreaking clinical trials. Innovative new treatments. That's how we're providing nationally-ranked care for Kentuckians—and shaping the future of cancer care.

See how we're creating a cancer-free future at [ukhealthcare.com/markey](https://ukhealthcare.com/markey).



# WELCOME!

TO ASTRO'S 64TH ANNUAL MEETING

HENRY B. GONZÁLEZ  
CONVENTION CENTER

## Key Sessions and Highlights

**ASTRO'S 64TH ANNUAL MEETING** will bring you a premium program of educational sessions and the latest research and science in radiation oncology. Some highlights are noted below to help you plan your time at the meeting most effectively, whether you are in San Antonio or attending virtually.

### KEYNOTES

Our keynote speakers will bring together the meeting theme of AI & EI: Caring for the Patient in a Wireless World, providing an opportunity to inform the bigger picture of the rapidly changing health care environment beyond radiation oncology.



**Ruha Benjamin, PhD**, professor, Department of African American Studies, Director of Graduate Affairs, Princeton University, will speak on "Race to the Future? Reimagining the Default Settings of Technology & Society," **Monday, October 24, at 9:15 a.m.** Her talk will discuss the themes outlined in her book "Race After Technology,"

including the social dimensions of data science, discriminatory design in technology, and how digital tools can replicate existing hierarchies and propagate racist

policies. Dr. Benjamin's specialty is in the interdisciplinary study of science, medicine and technology; race-ethnicity and gender; knowledge and power. She is also the author of the book "People's Science: Bodies and Rights on the Stem Cell Frontier" and editor of "Captivating Technology: Race, Carceral Technoscience, and Liberatory Imagination in Everyday Life," as well as numerous articles and book chapters.

**Richard Deming, MD**, medical director at MercyOne Des Moines Cancer Center, will follow on **Tuesday, October 25 at 9:15 a.m.**

with "Above and Beyond Cancer: Optimal Living in Survivorship."

Dr. Deming is a radiation oncology specialist with over 41 years of experience in the medical field, and founder of Above and Beyond Cancer foundation. Above and Beyond Cancer takes cancer survivors and their families on international adventures to places like the Mount Everest Base Camp or the top of Mount Kilimanjaro. He will share his and his patients' experiences with Above and Beyond Cancer foundation.





## CLINICAL TRIALS AND PLENARY SESSIONS

Hear updates from top-rated studies in radiation oncology on **Sunday, October 23 at 9:30 a.m. in the Clinical Trials Session.** Topics include response adapted ultra-low-dose radiation therapy for definitive management of orbital indolent b-cell lymphoma, the seven-year outcomes of the phase III PCS5 trial on conventional versus hypofractionated radiation therapy for high-risk prostate cancer, quality of life outcomes after low-dose-rate or high-dose-rate prostate brachytherapy boost combined with EBRT, the first in human study of proton FLASH RT, and phase III results of examining the impact of direct patient care for medical physicists.

Attend the **Plenary Session on Monday, October 24 at 1:30 p.m.** for a showcase of abstracts of scientific significance. Results from the NRG RTOG 1005 phase III trial on hypofractionated whole breast irradiation with concurrent boost versus conventional plus sequential boost will be presented as well as prostate cancer risk stratification in NRG Oncology phase III trials using multimodal deep learning with digital histopathology.

Check the Conference Planner at [www.astro.org/conferenceplanner](http://www.astro.org/conferenceplanner) for newly added abstracts from the late-breaking abstract submissions and see page 24 for more details on the science sessions.

## CANCER BREAKTHROUGHS

We are excited to bring back the Cancer Breakthroughs session on **Wednesday, October 26 at 9:15 a.m.** This session brings together several medical societies, ASCO, AAPM and AACR, in a collaborative effort to provide a summary of this year's groundbreaking cancer studies.

## MASTER CLASSES

Master Classes are deeper dives into a particular topic that require additional time and instruction. They require separate registration and an additional fee. Please note, space is limited, so register early.

### ► Centering on Equity: Reflecting on Unconscious Bias, Dominant Culture and Privilege

**Saturday, October 22 | 1:00 p.m. - 3:00 p.m.**

\$25 - Members/Nonmember/Residents/Students

This class will provide an interactive experience where participants will learn important skills they can use in their clinical practice. A keynote presentation by Daniel Velasco, EdD, from Latinos for Education, will help participants understand racism and discrimination in America and how it contributes

toward social determinants of health. Exercises will focus on addressing health disparities in your community through topics that include building trust, working with community partners and performing health equity research with vulnerable populations. The program will also focus on building an equitable culture within your hospital or department, through topics that include engaging faculty, staff and trainees and building an effective pipeline program.

### Clinical Trial Design - Noninferiority Trials

**Saturday, October 22 | 1:00 p.m. - 4:00 p.m.**

► \$25 - Members/Nonmember/Residents/Students

This course will empower participants to critically evaluate the design, analysis and interpretation of noninferiority clinical trials. Findings from prospective randomized clinical trials can directly impact patient care and treatment paradigms. It is important to understand the benefits and limitations of non-inferiority trials and assess the quality from protocol design and abstract presentation to final publication. After an overview of key statistical considerations, time will be devoted to review of high-profile trial examples, presented by the clinicians and statisticians who developed them. Participants will learn the strengths and limitations of noninferiority trials, determine if and when to change practice based on published trials and how to decide whether and when to open a noninferiority trial.

### Radiopharmaceutical Therapy

**Saturday, October 22 | 1:00 p.m. - 5:30 p.m.**

► \$150 - Members/Nonmember

Free - Residents/Students

Radiopharmaceutical therapies (RPTs) are increasingly utilized for treatment of prostate, neuroendocrine, thyroid and other cancers. Radiation oncologists are experts regarding the benefits and risks associated with various cancer radiotherapeutic options and are thus uniquely positioned to evaluate radiation treatment options for patients, including the use of RPTs. Radiation oncologists are designated authorized users for RPTs, but do not frequently prescribe RPTs or pursue development of RPT programs due to lack of training, infrastructure and knowledge of how to establish a program. The lack of training may affect patient safety and access to care, especially for new RPTs since few practitioners are actively developing RPT programs. Attendees will learn the basics of

*Continued on following page*

the physics and biology of RPTs and the clinical indications for Radium-223, Lu-177-PSMA and Lu-177-Dotatate, followed by case presentations.

### Goalsetting, Difficult Conversations and Leading "Up"

► **Sunday, October 23 | 3:00 p.m. - 6:00 p.m.**  
\$25 - Members/Nonmember/Residents/Students

Lack of professional development training in residency can lead to physicians having difficulty transitioning to practice, with failure to proactively set career goals and prioritize work/life schedules. In today's fast-paced changing health care environment, this can lead to communication breakdown with organizational leaders and an increased potential for difficult conversations. This class will help attendees proactively set goals to achieve the wanted type of clinical practice structure/research opportunities and then appropriately "lead up" to achieve them. Tools to help navigate high stakes conversation will be provided, along with a panel discussion with national leaders in academic and private practice radiation oncology.

See the full line-up of speakers for each class at [www.astro.org/masterclasses](http://www.astro.org/masterclasses).

## SESSIONS OF INTEREST

### Breast Cancer Sessions

- **Considerations for Risk-Stratified, Multidisciplinary Management of the Axilla in Breast Cancer**  
Tuesday, October 25, 4:00 p.m. – 5:00 p.m.
- **Deciding Between Nothing and Everything: Boost, Bolus and Fraction Numbers in Breast Radiotherapy**  
Wednesday, October 26, 8:00 a.m. – 9:00 a.m.

### Head and Neck Cancer Sessions

- **Oropharynx Tumor Board: Controversial Decisions in Every Day Cases**  
Sunday, October 23, 8:00 a.m. – 9:00 a.m.
- **Artificial Intelligence in Head and Neck Cancer Management: Current Applications and Future Directions**  
Wednesday, October 26, 8:00 a.m. – 9:00 a.m.

### Hematologic Cancer Sessions

- **All About Dose: From 400cGy to 5000cGy - What Influences Dose and Schedule Across the Spectrum of Lymphomas?**  
Monday, October 24, 8:00 a.m. – 9:00 a.m.
- **Challenging Cases in Lymphoma - Modern RT for the CAR-T and Advanced Imaging Era |**  
Tuesday, October 25, 2:30 p.m. – 3:45 p.m.

### Prostate Cancer Sessions

- **Boosting High-Risk Prostate Cancer: What are the Options?**  
Monday, October 24, 3:00 p.m. – 4:00 p.m.
- **The Radiation Oncologist's Role in Locally Recurrent Prostate Cancer: "Never Gonna Give You Up"**  
Tuesday, October 25, 5:15 p.m. – 6:15 p.m.

### Sarcoma and Cutaneous Tumors Sessions

- **Sarcoma Tumor Board: Real-Time Management of Challenging Cases in Adult Sarcoma**  
Monday, October 24, 10:45 a.m. – 12:00 p.m.
- **Patient Selection and Radiation Techniques in the Management of Cutaneous Malignancies**  
Tuesday, October 25, 2:30 p.m. – 3:45 p.m.


### Technology

- **Exploring Ethical Challenges in Artificial Intelligence**  
Sunday, October 23, 8:00 a.m. – 9:00 a.m.
- **The Application of Artificial Intelligence in the National Cancer Institute's Clinical Trials Network**  
Monday, October 24, 3:00 p.m. – 4:00 p.m.

### Thoracic Cancer Sessions

- **Difficult Cases in Lung SBRT**  
Monday, October 24, 5:00 p.m. – 6:00 p.m.
- **Multidisciplinary Management of Locally Advanced Non-Small Cell Lung Cancer (NSCLC)**  
Wednesday, October 26, 12:30 p.m. – 1:45 p.m.

### Workforce Session

- **ASTRO Workforce Study: An Interim Report**  
Monday, October 24, 5:00 p.m. – 6:00 p.m. 

# PRESIDENTIAL SYMPOSIUM PREVIEW

BY GERALDINE JACOBSON, MD, MPH, MBA, FASTRO, ASTRO PRESIDENT

If we could travel back on a time machine to 2021, 2020 or 2019, we would find ourselves in worlds that seem similar but are quite different from the world we experience today. It's hard for us to remember the world of the early 2000s, before we had smartphones, or the world of the 1990s, when email was a novelty. As we look to the future, how do we imagine the practice of radiation oncology and what can we do to shape the profession for our practitioners and our patients?

The idea for my Presidential Symposium occurred while thinking about the changes in the field of radiation oncology over the last few decades. Our specialty has been totally transformed by technological development, virtual communication, accelerating computer power and the growing role of artificial intelligence. While these improve our treatment capabilities, we should be aware that the tools we use to work and communicate shape our world view. What does this mean for doctors taking care of patients? If we spend most of our time interacting with a computer and evaluating data, will we think of our

patients as a collection of data, rather than people who come to us for care? Will we ignore our unique human capacity to listen to our patients, to provide explanation, encouragement and care during their cancer treatment?

The Presidential Symposium will explore some of these questions. We will discuss the potential role of artificial intelligence (AI) in our daily practice of radiation oncology and the possible use of AI to address meta issues in oncology. We will highlight aspects of doctor-patient communication and patient quality of life and include a session on the prevention and mitigation of radiation toxicity, an important issue for optimal survivorship oncology.

I would like to thank Catherine C. Park, MD, FASTRO, for her role in planning and organizing the two AI sessions and Brian Marples, PhD, for his role in planning and organizing the session on Prevention and Mitigation of Radiation Toxicity. Special thanks to each of our presenters in the Presidential Symposium.

## PRESIDENTIAL SYMPOSIUM SCHEDULE OF EVENTS | SUNDAY, OCTOBER 23

**Introduction** | 12:00 p.m. – 12:05 p.m.

**Speaker:** Geraldine Jacobson, MD, MPH, MBA, FASTRO, ASTRO President

**Session I • AI Opportunities in Today's Patient's Journey — Cutting Edge AI in Radiation Oncology** | 12:05 p.m. – 1:00 p.m.

**Moderators:** Sanjay Aneja, MD; Catherine C. Park, MD, FASTRO; Todd Pawlicki, PhD, FASTRO

Introductions	Catherine C. Park, MD, FASTRO
Current Progress of Machine Learning in Radiation Oncology	Sanjay Aneja, MD
The State of the Art in Digital Pathology and AI: Progress in Prostate Cancer	Osama Mohamad, MD, PhD
Who is Making Decisions About Our Care Plan: Doctors or Machines	Patient Speaker
Clinical Integration of Machine Learning for Curative-Intent Radiation Treatment of Patients with Prostate Cancer	Ale Berlin, MD, MS
Wide-Scale Clinical Adoption of Automated Knowledge-Based Planning	Kevin L. Moore, PhD
Panel Discussion - How Will AI Tools Be Presented	Todd Pawlicki, PhD, FASTRO Catherine C. Park, MD, FASTRO

*Continued on following page*

**Session II • Prevention and Mitigation of Radiation Toxicity | 1:00 p.m. – 2:00 p.m****Moderator:** Brian Marples, PhD

Introductions	Brian Marples, PhD
Inherited Susceptibility to Normal Tissue Toxicity: Towards Personalized Radiotherapy and Radioprotection	Sarah L. Kerns, PhD, MPH
Normal Tissue Injury, Specifically in the Cardiovascular System	Carmen Bergom, MD, PhD
Radiation-Induced CNS Damage: Potential Strategies for Preserving Cognitive Function	Catherine M. Davis-Takacs, PhD
Patient-Centered Clinical Trials on Radiation Toxicity: How the Patient Experience Guides Study Design	Ryan T. Hughes, MD
Panel Discussion	Moderator and all speakers

**Session III • The “Meta” Vision — How Can AI Help Solve Issues of Equity/Access/Value in Radiation Oncology |**

2:00 p.m. – 3:00 p.m

**Moderator:** Julian C. Hong, MD, MS

Introductions	Julian C. Hong, MD, MS
Social Determinants of Health and How That Can Fit Into Bringing DEI and Access to our Patients and Practices	Charles Mayo, PhD, FASTRO
AI and Medical Knowledge	Nadine Housri, MD
AI Based Clinical Trials	James Zou, PhD
Using AI to Benefit Our Patients: Clinical Trials, Implementation and Beyond	Julian C. Hong, MD, MS
Impact of AI on Quality of Care, Clinical Practice and Training	Erin F. Gillespie, MD
Panel Discussion	Moderator and all speakers

**Session IV • Human Doctors, Human Patients | 3:00 p.m. – 4:00 p.m****Moderator:** Geraldine Jacobson, MD, MBA, MPH, FASTRO

Introductions	Geraldine Jacobson, MD, MBA, MPH, FASTRO
Looking in the Mirror: What I Didn't Know as an Oncologist Until I Became a Cancer Patient	Rachel Abrams Rabinovitch, MD, FASTRO
Quality of Life and the Sexual Self in Cancer Patients	Sage Bolte, PhD
Digital Empathy	Sarah Hoffe, MD
Panel Role Play - Understanding What's Really Going on: Cognitive Biases and Emotional Intelligence in Radiation Oncology	Sarah Hoffe, MD Benjamin William Corn, MD, FASTRO Ronald D. Ennis, MD, FASTRO Neha Vapiwala, MD, FASTRO Sarah Krug, Patient Advocate and Advisor
Closing/Hope	Benjamin William Corn, MD, FASTRO



# NEW THIS YEAR

- ▶▶ This year's ASTRO Annual Meeting has a wealth of new opportunities, no matter how you are joining us. The meeting promises a vibrant showcase of new science, education and information, along with a newfound appreciation for interactive engagement — both in person and virtually. Below is a glimpse of some new features this year!



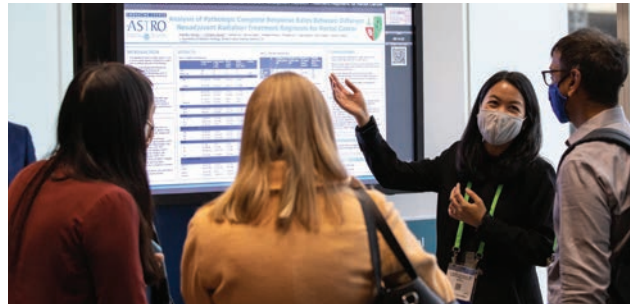
## NEW SCHEDULE CHANGES

Based on past years' participation trends and attendee feedback, we've incorporated schedule changes to improve your meeting experience. These changes include moving the Clinical Trials session to Sunday morning and the Presidential Symposium to Sunday afternoon. Longer breaks, including an extended Sunday afternoon break in the Exhibit Hall and a Monday afternoon Exhibit Hall Networking Reception from 4:00 p.m. to 5:00 p.m. will give you more time to explore the latest in radiation oncology and meet with exhibitors. Finally, the meeting will end on Wednesday at 1:45 p.m., so you can attend the full meeting and still fly out the same day.



## CAREER CENTER

The Career Center has a few new features this year, allowing employers to schedule interviews with job seekers, and semi-private interview rooms will be available for those conversations. Additionally, the on-site Job Board will include copies of job postings that have been flagged for the ASTRO Annual Meeting Career Fair.



## POSTER WALKS

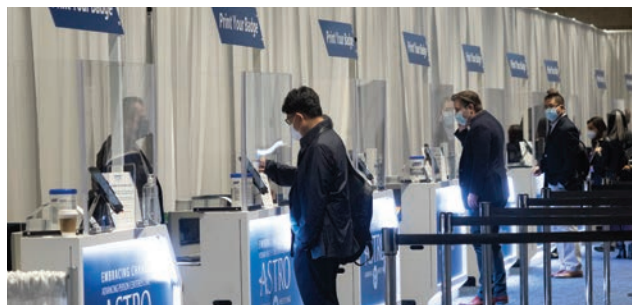
Over 1,300 posters will be presented in person and virtually at this year's meeting. To facilitate engagement, this year's meeting will feature Poster Walks. During each poster viewing session, abstract reviewers will serve as Poster Walk leaders. The leaders will choose a selection of posters to visit during the poster session and will take their group of attendees around the poster hall to hear abstract authors present their work. The Poster Walk will conclude with the leader and attendees engaging in a discussion of the posters they reviewed, answering questions and discussing the impact.



## SPEED MENTORING

Test out your networking agility and meet potential mentors this year at our Speed Mentoring event on Tuesday, October 25, 12:45 p.m. to 2:45 p.m. in the front of Hall 2 near posters. Speed mentoring is a series of short, focused conversations on specific topics. Mentees can rotate to different mentors during allotted time periods. ASTRO will invite mentor volunteers to staff tables to discuss specific topics.

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## REGISTRATION OPTIONS

New for this year, both the in-person and live virtual registration options include access to all SA-CME sessions, the Practical Radiation Oncology (PRO) Program and the entire meeting onDemand (available shortly after the live sessions) for no extra charge.

The Virtual Full Conference registration package is designed for those who are unable to attend in person. The virtual registration option provides access to all meeting sessions (except Master Classes) livestreamed in real time October 22-26, 7:45 a.m. - 6:15 p.m.

Central time. Watch sessions live with the opportunity to submit questions for presenters. Learn more at [www.astro.org/AMvirtual](http://www.astro.org/AMvirtual).


onDemand offers the opportunity to extend the educational experience with more content and time beyond the live participation dates. Full in-person and virtual attendee registration includes seven months of onDemand access with credit claiming for all meeting sessions (except Master Classes). Session recordings will be available within 24 hours of the end of the session. Attendees can access the recordings and claim CME credits until June 1, 2023. Learn more at [www.astro.org/AMonDemand](http://www.astro.org/AMonDemand).



## ORIGAMI CRANES

As a nod to the important contributions of this year's Survivor Circle grant recipients, Breast Cancer Resource Center and ThriveWell Cancer Foundation, tables will be set up for attendees to fold cranes for an art installation to share a message of strength and healing. In Japanese folklore, a crane is believed to live for a thousand years, and consequently, folding 1,000 cranes will allow for a wish to be granted, often in the form of healing.

This legend sparked the young ambitions of Sadako Sasaki, a girl who had contracted leukemia attributed to the atomic bomb dropped in Hiroshima. Sadako tried to fold that many birds to survive for longer but passed away in 1955.<sup>1</sup> Her story lived on, even inspiring one of her friends and ASTRO member Ritsuko Komaki, MD, to become a professor of radiation oncology at The University of Texas MD Anderson Cancer Center.<sup>2,3</sup>

We invite you to stop by the Survivor Circle booth to meet this year's grant recipients and to help us reach our goal of 1,000 cranes and make a wish for the comfort and healing of all cancer patients. 

## REFERENCES:

1. National Park Service. The Story of Sadako Sasaki. nps.org. Accessed July 28, 2022. <https://www.nps.gov/articles/000/the-story-of-sadako-sasaki.htm>.
2. Komaki, R. Radiation has always been part of my life. cnn.com. Published March 17, 2011. Accessed July 28, 2022. <http://www.cnn.com/2011/OPINION/03/17/komaki.hiroshima.survivor.japan/index.html>.
3. American Society for Radiation Oncology. An Interview with Ritsuko Komaki. astro.org. Published January 23, 2018. Accessed July 28, 2022. <https://www.astro.org/About-ASTRO/History/Ritsuko-Komaki>.

### Employers and Job Seekers – Register for the Annual Meeting Career Fair

#### Job Seekers

- Registering for the Career Fair lets employers know that you will be in San Antonio.

#### Employers

- Registering for the Career Fair gives you access to job seeker resumes and highlights those who will be in San Antonio.\*
- New this year, included in the Career Fair is the opportunity to schedule semi-private interview rooms.

The Career Center connects leading employers with top talent.

Register for the ASTRO Career Fair at ASTRO 2022. Private and semi-private interview rooms are available.

\*Active job posting is required.

Learn more and get started: [astro.org/careercenter](http://astro.org/careercenter)



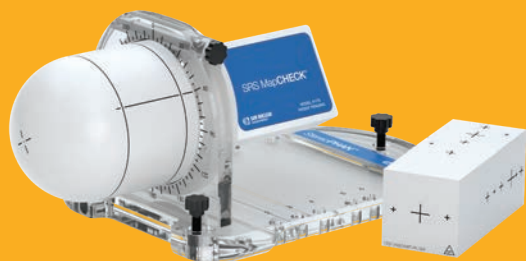
# Explore a Stronger Sun Nuclear

at ASTRO 2022

NEW



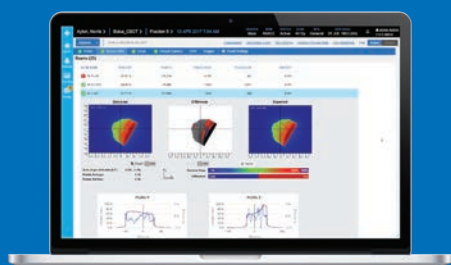
SunSCAN™ 3D Water Scanning System



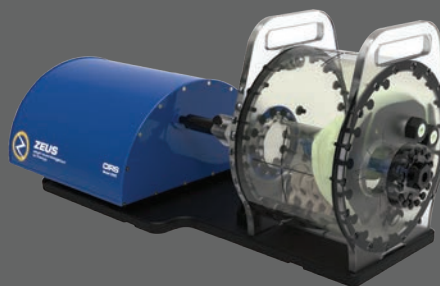
Stereophan™, SRS MapCHECK®, MultiMet-WL Cube

At the ASTRO Annual Meeting, October 23 - 25, Sun Nuclear and CIRS will combine to feature our portfolio of smarter Quality Management solutions. Join us in booth #980 for daily in-booth talks and product demonstrations.

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# ASTRO DIVERSITY, HEALTH EQUITY AND INCLUSION:

## Annual Meeting and Beyond

### DIVERSITY, EQUITY AND INCLUSION TRACK FOR EDUCATION AND SCIENCE SESSIONS

ASTRO continues its commitment to creating Annual Meeting initiatives and education on diversity, health equity, inclusion and belonging. This year, the dedicated diversity, equity and inclusion (DEI) track is built around important topics in this space with four educational sessions, more than 40 poster presentations, Storytelling sessions and a Master Class (see page 15 for details on the class). Be sure to pick up a Journey Map from the ASTRO Resource Center in San Antonio for a complete list of sessions.

#### Educational Sessions on DEI

- EDU 05 - Examining Our Past and Present Diversity to Achieve a More Equitable and Inclusive Future for Radiation Oncology
  - Monday, October 24, 8:00 a.m. - 9:00 a.m.
- Joint 02 - ASTRO-ECOG-ACRIN Joint Session – Addressing LGBTQ+ Health Equity and Disparities in Cancer Care
  - Monday, October 24, 10:45 a.m. - 12:00 p.m.
- EDU 27 - A Toolkit for Promoting Diversity, Equity and Inclusion in Your Practice
  - Tuesday, October 25, 5:15 p.m. - 6:15 p.m.
- Panel 24 - Data-Driven Approaches to Promoting Enrollment of Women, Racial, Ethnic, Sexual and Gender Minorities and Elderly Patients in Clinical Trials: Pathway for Future Success
  - Wednesday, October 26, 8:00 a.m. - 9:00 a.m.

#### DEIH Abstracts

Attend these sessions to hear abstract authors present their work and ask questions related to their research:

- Poster Q&A Session: Lung Cancer and DEIH
  - Sunday, October 23, 4:45 p.m. - 6:00 p.m.
- SS24 - Oral Abstracts on DEIH: Advancing Health Equity Along the Cancer Care Continuum
  - Tuesday, October 25, 4:00 p.m. - 5:00 p.m.

#### Master Class

- Centering on Equity: Reflecting on Unconscious Bias, Dominant Culture and Privilege
  - Saturday, October 22, 1:00 p.m. - 3:00 p.m.

#### Storytelling

- Creating an Anti-Harassment Culture in Radiation Oncology
  - Monday, October 24, 11:00 a.m. – 12:00 p.m.
- Approaches to Overcoming Barriers to Providing High-Quality Radiation Therapy in Rural Communities
  - Monday, October 24 5:00 p.m. - 6:00 p.m.
- Understanding the New ACGME DEI Standards: Historical Perspectives, Data-Driven Approaches, and Psychological Safety
  - Wednesday, October 26, 10:30 a.m. – 11:30 a.m.

#### Leadership Pipeline Program

We would like to recognize our Leadership Pipeline Protégés who have been working throughout the year on various projects with ASTRO Councils. Please give a warm welcome to our 2021-2023 class of protégés selected for the ASTRO Leadership Pipeline Program.

#### 2021 – 2023 Protégés

- Rachel Jimenez, MD, Massachusetts General Hospital, Education Council
- Sophia Kamran, MD, Massachusetts General Hospital, Clinical Affairs and Quality Council
- Jolinta Lin, MD, Emory University, Government Relations Council
- Michelle Ludwig, MD, PhD, MPH, Baylor College of Medicine, Health Policy Council
- Ray Mailhot-Vega, MD, MPH, University of Florida Proton Therapy Institute, Science Council

#### Minority Summer Fellowship Awards

Lastly, please help us continue to spread the message to medical students underrepresented in medicine that applications for the 2023 Minority Summer Fellowship (MSF) are due February 3, 2023. We would like to acknowledge the 2022 MSF Awardees and welcome the 2021 MSF who will be presenting their research in San Antonio. The 2022 Minority Summer Fellowship program is funded in part by Varian.

*Continued on page 30*



## INTERNATIONAL SESSIONS *of Interest*

The Annual Meeting is an excellent opportunity for national and international radiation oncologists to get up to speed with the most current advances in radiation oncology. ASTRO is pleased to offer a variety of sessions for international meeting attendees or those with interest in global oncology.

Tamer Refaat Abdelrhman, MD, PhD, MSCI, chair of the ASTRO International Education & Training Subcommittee shares “International sessions have been carefully selected by ASTRO International Committee leadership to guarantee a representation of the work of our international colleagues and to choose topics that should be of interest to international attendees.”

When on site in San Antonio, pick up a Journey Map from the ASTRO Resource Center for a comprehensive list of recommended sessions for international attendees.

- **International 01** - Latin America ASTRO 2022  
Saturday, October 22 | 2:00 p.m. - 6:00 p.m.
- **International 02** - Opportunities and Challenges in Global Radiation Oncology - Factors Affecting Success  
Sunday, October 23 | 8:00 a.m. - 9:00 a.m.
- **International 03** - Peer Review for Global Interobserver Variations in Delineation and Plan Quality Assessment  
Sunday, October 23 | 4:45 p.m. - 6:00 p.m.
- **International 04** - International Efforts in Radiation Oncology AI: Lessons Learned from Around the Globe  
Monday, October 24 | 8:00 a.m. - 9:00 a.m.
- **International 05** - Human Microbiome Project and Radiation: Rationale, Clinical Implication, and Future Perspective  
Monday, October 24 | 3:00 p.m. - 4:00 p.m.
- **Joint 03** - ASTRO/ESTRO – Personalized Care: Learning from the Patient  
Tuesday, October 25 | 8:00 a.m. - 9:00 a.m. 

## 2022 ANNUAL MEETING PROMOTIONAL SPONSORS

Current as of August 25, 2022

Thank you to our promotional sponsors for your generous support of ASTRO's Survivor Circle.



# SCIENTIFIC SESSIONS AT THE 64TH ANNUAL MEETING

BY ANDREA NG, MD, MPH, FASTRO, CHAIR, ANNUAL MEETING SCIENTIFIC PROGRAM COMMITTEE

## THE ANNUAL MEETING SCIENTIFIC COMMITTEE

is excited to see everyone in San Antonio! ASTRO's Annual Meeting is the premier scientific radiation oncology event of the year, and the Annual Meeting Scientific Committee has created another exceptional program for 2022.

Sessions at the meeting will highlight the potential of AI, Big Data and scientific advances, in addition to showcasing the central role of human interaction in caring for and curing our patients.

The meeting will offer an array of scientific sessions featuring cutting-edge research that will impact patient care and practice. Abstracts will also explore challenges and changes in radiation oncology practice in response to the global pandemic, approaches to improving the care of patients from underrepresented minority groups and underserved communities, and effective practices to reduce treatment side effects.

The scientific program will encompass abstracts presented in a variety of different formats: Plenary and Clinical Trial sessions, which showcase abstracts of scientific significance deemed to have the highest merit and greatest impact on radiation oncology research and practice; interactive Oral Scientific and Quick Pitch sessions; Science Highlight sessions, which feature expert discussants to provide an overview of the abstracts that each track/disease site has selected to best represent the research for their disease site; Digital Posters with audio narration from the abstract author; and a Cancer Breakthroughs session, featuring top 2022 breakthroughs from ASTRO's oncology partner organizations.

The Annual Meeting will also include multiple workshops, panels and educational sessions, but to see the latest scientific research, don't miss the scientific sessions. At the meeting this year, there will be over 300 abstracts as part of Oral Scientific and Quick Pitch sessions and over 1,300 as digital posters covering all the major disease sites as well as Physics, Biology, Palliative Care, Digital Innovations and Diversity, Equity and Inclusion in Health Care.

For those unable to attend in person, the meeting will be livestreamed. Additionally, new this year, both in-person and virtual full conference registration will include seven months of onDemand session access, with CME credit available for most meeting sessions. So, if you miss

any sessions in San Antonio, you will be able to view that content after the meeting at your leisure.

Although abstracts are embargoed until the start of the meeting, you can preview the schedule, which includes abstract titles, in our Conference Planner at [www.astro.org/conferenceplanner](http://www.astro.org/conferenceplanner). We look forward to seeing you in San Antonio!

Here are some of the top-scoring abstracts that will be presented:

<p><b>Frank Vicini, MD, FASTRO</b> <i>Michigan Healthcare Professionals</i></p>	<p><b>NRG RTOG 1005: A Phase III Trial of Hypofractionated Whole Breast Irradiation with Concurrent Boost Versus Conventional Whole Breast Irradiation Plus Sequential Boost following Lumpectomy for High Risk Early-Stage Breast Cancer</b></p>
<p><b>Jonathan Tward, MD, PhD, FASTRO</b> <i>Huntsman Cancer Institute, University of Utah</i></p>	<p><b>Prostate Cancer Risk Stratification in NRG Oncology Phase III Randomized Trials Using Multi-Modal Deep Learning with Digital Histopathology</b></p>
<p><b>Chelsea Pinnix, MD, PhD</b> <i>University of Texas MD Anderson Cancer Center</i></p>	<p><b>Response Adapted Ultra Low Dose Radiation Therapy for the Definitive Management of Orbital Indolent B-cell Lymphoma</b></p>
<p><b>Tamim Niazi, MD,</b> <i>Jewish General Hospital</i></p>	<p><b>Conventional vs. Hypofractionated, Radiotherapy for High-Risk Prostate Cancer: 7-year Outcomes of the Randomized, Non-Inferiority, Phase 3 PCS5 Trial</b></p>
<p><b>Nikitha Moideen, MD</b> <i>BC Cancer Agency</i></p>	<p><b>A Randomized Phase III Trial Comparing Health-Related Quality of Life after Low Dose Rate (LDR) or High Dose Rate (HDR) Prostate Brachytherapy Boost Combined with External Beam Pelvic Radiotherapy (EBRT)</b></p>
<p><b>Emily Daugherty, MD</b> <i>University of Cincinnati Medical Center</i></p>	<p><b>FAST-01: Results of the First-In-Human Study of Proton FLASH Radiotherapy</b></p>
<p><b>Todd Atwood, PhD</b> <i>University of California, San Diego</i></p>	<p><b>Examining the Impact of Direct Patient Care for Medical Physicists: A Randomized Prospective Phase III Trial</b></p>



# LIVE SA-CME OFFERINGS AND CONTINUING EDUCATION CREDITS

**THIS YEAR'S ANNUAL MEETING** offers 10 Live SA-CME sessions with full conference registration to help attendees meet the requirements of the American Board of Radiology's Part II Maintenance of Certification program. Registration for the PRO weekend program will include one Live SA-CME session. Participants will access their Live SA-CME assessment through the ASTRO Academy at [academy.astro.org](http://academy.astro.org) to receive immediate feedback, peer comparison and SA-CME certificates. For more information, visit [www.astro.org/amlivesacme](http://www.astro.org/amlivesacme).

The following sessions have been selected for Live SA-CME:

- **EDU 02:** Overview of ASTRO's Radiation Therapy for Endometrial Cancer Guideline: A Multidisciplinary Case-Based Interactive Discussion
- **EDU 06:** Rectal Cancer Nonoperative Management: Tools for the Clinician to Enable Patient-Centered Decisions
- **EDU 13:** Difficult Cases in Lung SBRT
- **EDU 14:** Managing Challenging Cases: Bladder Cancer
- **Joint 01:** ASTRO/ASCO/SNO Joint Session - Brain Metastases: A Case-Based Interactive Overview of the 2022 ASTRO and ASCO/SNO/ASTRO Practice Guidelines
- **Joint 05:** ASTRO/AANS Joint Session - Collaborative Approaches for Challenging CNS Cases: Neurosurgeons & Radiation Oncologists in Practice
- **Panel 10:** Boosting High-Risk Prostate Cancer: What Are the Options?
- **Panel 15:** Challenging Cases in Breast Cancer: Rare Breast Cancer Histologies and Presentations
- **Panel 17:** Challenging Cases in Palliation
- **PRO Session 8:** Oligometastatic Disease

## CONTINUING EDUCATION CREDITS


The American Society for Radiation Oncology (ASTRO) is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians. Credit amounts are subject to change with changes in the program.

**Live Meeting (In Person/Virtual):** ASTRO designates this live course activity for a maximum of 36.75 *AMA PRA Category 1 Credits*<sup>™</sup>. Physicians should claim only the credit commensurate with the extent of their participation in the activity. CME credits must be claimed by June 1, 2023.

**Meeting on Demand:** ASTRO designates this enduring material activity for a maximum of 187.00 *AMA PRA Category 1 Credits*<sup>™</sup>. Physicians should claim only the credit commensurate with the extent of their participation in the activity. CME credits must be claimed by June 1, 2023.

**Live SA-CME Sessions:** ASTRO is awarded Deemed Status by the American Board of Radiology to provide Self-Assessment CME (SA-CME) as part of Part II Maintenance of Certification. These sessions offer a maximum of 11.25 American Board of Radiology®, MOC Part II, SA-CME. Physicians and physicists should claim only the credit commensurate with the extent of their participation in the activity. SA-CME credits must be claimed by December 1, 2022.

**Dosimetrists:** Dosimetrists should only claim credit for their participation in the in-person meeting in San Antonio and should not claim credit for sessions watched on Demand or via the livestream. An application will be submitted to the Medical Dosimetrist Certification Board for MDCB credits. MDCB credits must be claimed by December 1, 2022.

**Physicists:** Physicists should only claim credit for their participation in the in-person meeting in San Antonio and should not claim credit for sessions watched on Demand or via the livestream. An application will be submitted to the Commission on Accreditation of Medical Physics Education Programs (CAMPEP) for Medical Physics Continuing Education Credits. CAMPEP credits must be claimed by December 1, 2022. 



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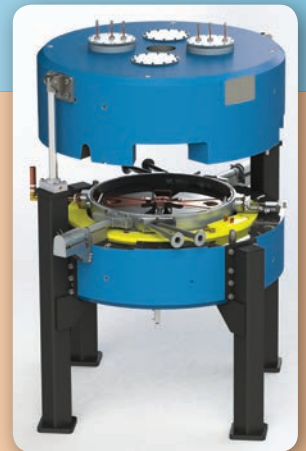
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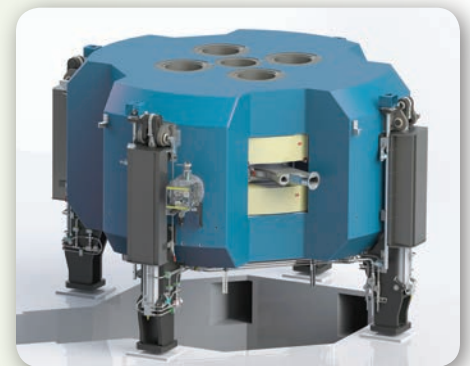
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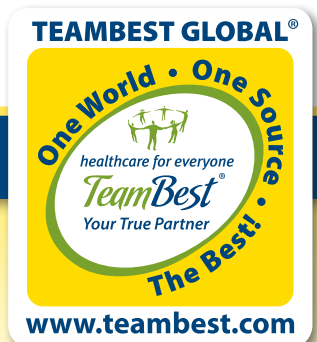
- Proton Particle Beam: 1000  $\mu\text{A}$  Beam Current up to 35 MeV Energy
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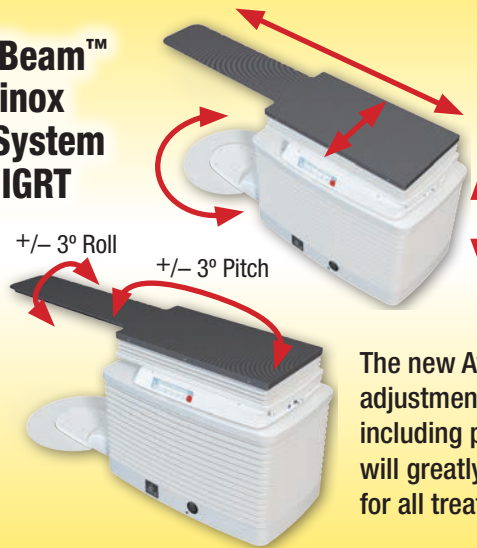
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## Lace up your running shoes for the ROI 5k!

Get your running (or walking!) shoes ready to join hundreds of your colleagues for a fun event during the ASTRO Annual Meeting! Whether you challenge yourself or join a team, you'll enjoy a beautiful morning along the San Antonio River Walk.

All funds raised will benefit the Radiation Oncology Institute (ROI), ASTRO's research foundation. Since its founding as a 501c3 charity more than 15 years ago, ROI has funded more than \$4 million in research to improve the outcomes for cancer patients and to drive the field of radiation oncology forward. Thanks to our race sponsors Varian, Elekta and RefleXion!

During the Annual Meeting, visit the ROI booth near registration to pick up your race bib, learn more about the innovative researchers who have received grants from

ROI, and support the work of ROI with your annual donation. You can give \$100 via credit card at our fast-pass donation jar, or join the President's Circle with your gift of \$1,500.



Register online at  
[www.roinstitute.org/5k](http://www.roinstitute.org/5k)

## ROI RESEARCH RESULTS AT THE ANNUAL MEETING

### Sunday, October 23

#### 4:45 p.m. Poster Q&A 01 – Lung Cancer and DEIH

- 2310: Assessing the Impact of Diverse Approaches of Promoting Virtual Radiation Oncology Educational Content to Medical Students
- 2311: Impact of a Virtual Introduction to Radiation Oncology Lecture on Stimulating Specialty Interest among Diverse Medical Students at Multiple Institutions
- 2312: Pilot Study Exploring the Feasibility and Value of Introducing Diverse Students in Premedical Programs to Multidisciplinary Oncology

#### 4:45 p.m. Scientific Session 05 – Novel Approaches to Palliative Supportive Care: Improving Toxicity, Efficacy, and Equity

- 126: Natural Language Processing of Symptoms Preceding Diagnosis and Palliative Radiotherapy for Bone Metastases

### Monday, October 24

#### 8:00 a.m. Scientific Session 06 – Exploring Multiple and Evolving Trajectories of AI into Health Care

- 129: Social Media Sentiments and Treatment Choices for Breast Cancer
- 132: Machine Learning-Based Prediction of Hospitalization Using Daily Step Counts for Patients Undergoing Chemoradiation

#### 8:00 a.m. Scientific Session 07 – Genomics and Molecular Biomarkers

- 137: Genomic Determinants of Response to Trimodality Therapy for Muscle-Invasive Bladder Cancer

#### 5:00 p.m. Poster Q&A 04 – Biology and PRO

- 3008: Patient Reported Outcomes and Financial Toxicity in Head and Neck Cancer (PaRTNer): Longitudinal Assessment of Financial Toxicity and an Educational Intervention from a Pilot Study
- 3021: Prospective Pilot Study to Measure Baseline Anxiety Prior to Radiotherapy after Standard Education at Consultation

### Tuesday, October 25

#### 4:00 p.m. Poster Q&A 07 – Hematologic Malignancies and Digital Health Innovation

- 2281: Leveraging Serial MRI Radiomics and Machine Learning to Predict Risk of Radiation Necrosis in Patients with Brain Metastases Managed with Stereotactic Radiation and Immunotherapy

#### 4:00 p.m. Scientific Session 24 – Advancing Health Equity Along the Cancer Care Continuum

- 229: Development of gRADient: An Inclusive Tool for Objective Measurement of Radiation Acute Skin Toxicity Across Skin Tones in Breast Cancer
- 230: A Comprehensive Overview of Academic Radiation Oncology Departmental Efforts in Diversity, Equity, and Inclusion

## 2022 ARRO Annual Seminar

### Residents and Faculty Return to Full In-Person ARRO Programming

BY AMISHI BAJAJ, MD, ARRO EXECUTIVE COMMITTEE CHAIR, ON BEHALF OF THE ARRO EXECUTIVE COMMITTEE

#### THE ASSOCIATION OF RESIDENTS IN RADIATION ONCOLOGY (ARRO)

Executive Committee is excited for the return of the first full in-person ARRO Annual Seminar (often referred to as “ARRO Day”) since 2019. ARRO Day is comprised of a full day of programming at the ASTRO Annual Meeting geared toward activities of great interest to ASTRO members-in-training. This year’s Annual Seminar is on Saturday, October 22 from 10:00 a.m. to 5:00 p.m. and will be followed by an evening reception. Additionally, during the following evening on Sunday, October 23 from 4:45 p.m. to 5:45 p.m., residents will have the opportunity to join invited faculty for a free form, intimate networking event. This networking reception was held in a similar format at last year’s ASTRO Annual Meeting and was met with great enthusiasm by those in attendance.

This year’s Annual Seminar will bring a great deal of valuable content to residents, fellows and medical students. The morning will begin with Opening Remarks by the ARRO Executive Committee: ARRO Chair Amishi Bajaj, MD, who also serves as

Chair of Communications for the organization; Vice-chair of Education Bailey Nelson, MD; Vice-chair of Equity & Inclusion Gabriel Vidal, MD; and Vice-chair of Global Health Dakim Gaines, MD, PhD. The ARRO Executive Committee will provide details regarding ARRO’s recent accomplishments and a brief discussion about residents’ contributions to the future of the field of radiation oncology.

The academic session of ARRO Day will follow from 10:30 a.m. to 11:30 a.m. on the subject of Abstract and Manuscript Design and Review. This session will be led by Nicholas Zaorsky, MD, MS, and Pippa Cosper, MD, MPH, leading national experts in clinical research and basic science research, respectively. Before the lunch break at noon, this session will be followed by a brief overview of radiation oncology resources available to residents, including those procured by ARRO as well as peer groups including but not limited to the American College of Radiation Oncology (ACRO), American Radium Society (ARS) and Radiation Oncology Virtual Education Rotation (ROVER).

Following the lunch break, at 12:45 p.m., ARRO Vice-chair of Global Health Dakim Gaines, MD, PhD, will present the ARRO Global Health Award, and Vice-chair of Equity & Inclusion Gabriel Vidal, MD, will present the Equity & Inclusion Subcommittee (EISC) Faculty Award.

This award presentation will be followed at 1:00 p.m. by an in-person “Mentorship Meet & Greet” networking session featuring a number of esteemed academic and community practice radiation oncologists who have been awarded the role of ARRO-designated faculty for the 64th ASTRO Annual Meeting. These include Chelain Goodman, MD, PhD; Avinash Chaurasia, MD; Matthew Katz, MD, FASTRO; Matthew Spraker, MD, PhD; Simul Parikh, MD; Brian Kavanagh, MD, MPH, FASTRO; Howard Sandler, MD, MS, FASTRO; Casey Chollet-Lipscomb, MD; William Small, MD, FASTRO; Brandon Mancini, MD, MBA; Anna Laucis, MD, MPhil; Hina Saeed, MD; J. Ben Wilkinson, MD; Jenna Kahn, MD; Erin Gillespie, MD;

*Continued on following page*

Catheryn Yashar, MD, FASTRO; Curtiland Deville, MD; Neil Newman, MD; Emma Holliday, MD; Malika Siker, MD; Amanda Walker, MD; Miriam Knoll, MD; and Join Luh, MD. The ARRO Executive Committee is extremely grateful to be joined by more than 20 excellent radiation oncologists who are all thrilled to impart their wisdom to their trainee mentees.

The remainder of the afternoon is packed with even more excitement! At 2:00 p.m., a session oriented toward excellence in community practice entitled “Fundamentals of Private Practice” will be delivered by Join Luh, MD. From 2:35 p.m. to 3:35 p.m., we will hold ARRO’s annual Job Panel Discussion, moderated again

this year by Brian Kavanagh, MD, MPH, FASTRO, featuring Austin Sim, MD, JD; Kosj Yamoah, MD, PhD; Amanda Walker, MD; Brandon Mancini, MD, MBA; Vinita Takiar, MD, PhD; Casey Chollet-Lipscomb, MD; and Victor Mangona, MD. We are pleased to have broad representation on this year’s panel, with these radiation oncologists having served in leadership roles in community practice, industry and in academic departments.

As the theme of this year’s ASTRO Annual Meeting is AI & EI: Caring for the Patient in a Wireless World, this year’s keynote address at 3:40 p.m. will jointly feature leading emotional intelligence and palliative care

expert Tracy Balboni, MD, MPH, as well as esteemed artificial intelligence researcher Clifton Dave Fuller, MD, PhD.

To culminate the day’s activities, at 4:30 p.m., ARRO Chair Amishi Bajaj, MD, will present the eagerly awaited, annual ARRO Graduating Resident Survey results for the radiation oncology residency graduating class of 2022.

We are extremely proud of ARRO’s accomplishments and are excited to be joined by numerous attending radiation oncologists for this year’s Annual Seminar in-person programming. We look forward to seeing you in San Antonio! 🇺🇸

CONTINUED FROM [ASTRO DIVERSITY, HEALTH EQUITY AND INCLUSION](#)

### 2022 Awardees

- Justin Chestang, Columbia University Irving Medical Center
- Matthew Eximond, Lincoln Memorial University DeBusk College of Osteopathic Medicine
- Omar Guerrero, A.T. Still University of Health Sciences
- Andjie Jeudy, St. George’s University – Grenada
- Valeria Londono, Georgetown University School of Medicine
- Jacob Mapp, The University of Arizona Health Sciences Center
- Aliah McCalla, Central Michigan University College of Medicine
- Judith Njoroge, Des Moines University-Osteopathic Medical Center
- Miguel Noy, Albany Medical College
- Sonile Peck, University of Florida College of Medicine

### 2021 Awardees Presenting at ASTRO 2022

- Valencia Henry, MS, Edward Via College of Osteopathic Medicine - Carolinas Campus
  - [SCI 51180](#): Improving Cancer Care in the HIV Population: Qualitative Research to Identify Provider Knowledge, Attitudes and Practices
- Jazmyne Tabb, University of South Alabama
  - [SCI 50265](#): Reduced Gray Matter Volumes among Long Term Survivors of Head and Neck Cancer Treated with Radiation Therapy 🇺🇸

### Did You Know?

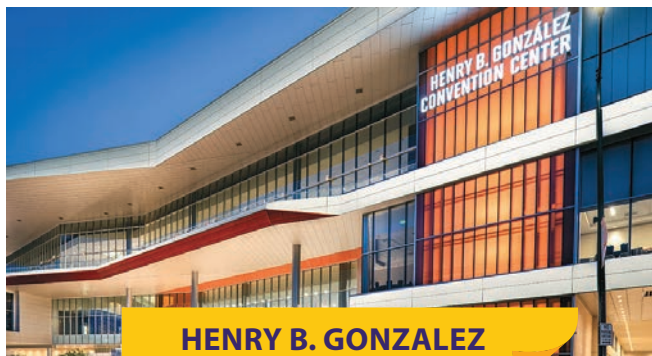
ASTRO has a long-lasting history of providing education and training to students and trainees to encourage them to choose careers in radiation oncology. To this end, the Aspiring Scientists and Physicians Program aims to expose undergraduate and medical students who are underrepresented in medicine to the field and the Society by inviting them to participate in ASTRO events specifically tailored to their interests and professional development. Students meet and network with radiation oncology faculty, residency program directors, residents and medical students on their career journey. They learn more about radiation oncology, cancer treatment and cancer research as they consider their career options. Students also have access to posters and other scientific sessions taking place during the day. The program concludes with a specialized tour of the Exhibit Hall.

**Join us in welcoming our local San Antonio students to ASTRO 2022 on Sunday, October 23!**



# ANNUAL MEETING GENERAL INFORMATION

Times listed in Central time



## HENRY B. GONZALEZ CONVENTION CENTER

900 E. Market Street  
San Antonio, TX 78205

[www.sahbgcc.com](http://www.sahbgcc.com)

All activities take place at the Henry B. Gonzalez Convention Center unless otherwise stated. All information is correct as of August 25, 2022, and is subject to change. All listed times are in Central time.

### ATTENDEE REGISTRATION

📍 Hall 1, Street Level

#### Attendee registration hours:

Saturday, October 22	7:00 a.m. – 5:00 p.m.
Sunday, October 23	6:30 a.m. – 6:00 p.m.
Monday, October 24	6:30 a.m. – 6:00 p.m.
Tuesday, October 25	7:00 a.m. – 6:00 p.m.
Wednesday, October 26	7:00 a.m. – 1:00 p.m.

### EXHIBITOR REGISTRATION

📍 Hall 1, Street Level

#### Exhibitor registration hours:

Thursday, October 20	8:00 a.m. – 5:00 p.m.
Friday, October 21	8:00 a.m. – 5:00 p.m.
Saturday, October 22	7:00 a.m. – 5:00 p.m.
Sunday, October 23	6:30 a.m. – 5:00 p.m.
Monday, October 24	7:00 a.m. – 5:00 p.m.
Tuesday, October 25	7:00 a.m. – 5:00 p.m.

### IMPORTANT!

There will be no on-site registration in San Antonio. However, online registration will be open and available throughout the meeting at the late registration rates. Attendees who plan to attend the in-person meeting and have not registered in advance should register online before arriving to the Henry B. Gonzalez Convention Center. Once registered online, you will be able to pick up your meeting badge and registration materials in the registration area, located in Hall 1 at the Henry B. Gonzalez Convention Center.

### AFFILIATED MEETINGS

**American Society of Radiologic Technologists (ASRT)  
2022 Radiation Therapy Conference (RTC)**

**October 23-25 | Marriott Rivercenter**

The American Society of Radiologic Technologists (ASRT) Radiation Therapy Conference (RTC) will take place at the Marriott Rivercenter. ASTRO-registered attendees may attend the Radiation Therapy Conference by paying a reduced registration fee. Proof of ASTRO Annual Meeting registration (registration confirmation or badge) is required to receive this reduced rate. For more information about the ASRT Radiation Therapy Conference and registration rates, visit [www.asrt.org](http://www.asrt.org).

**39th Annual Meeting of the Society for Radiation  
Oncology Administrators (SROA)**

**October 23-26 | Hyatt Regency San Antonio Riverwalk**

The 39th Annual Meeting of the Society for Radiation Oncology Administrators (SROA) will take place at the Hyatt Regency San Antonio Riverwalk. ASTRO-registered attendees may attend the SROA general sessions by paying a reduced registration fee. Proof of ASTRO Annual Meeting registration (registration confirmation or badge) is required to receive this reduced rate. For more information about the SROA Annual Meeting and registration rates, visit [www.sroa.org](http://www.sroa.org).

## ABSTRACTS AND EMBARGO POLICY

All abstracts to be presented at the ASTRO Annual Meeting are embargoed until 5:00 p.m. Central time on Friday, October 21, 2022. The embargo for all posters at the meeting will also lift at that time. For abstracts selected for oral presentation, information beyond what is included in the abstract, such as updated or additional results, is embargoed until the date and time of scientific presentation or presentation at an ASTRO news briefing, whichever occurs first. The embargo policy applies to all abstracts regardless of whether information is obtained from another source.

Embargo violations by media professionals may result in suspension of credentials at ASTRO's Annual Meeting and may impact access to advance media materials for future meetings. Embargo violations by abstract authors and/or sponsors may result in removal of the abstract from the scientific program. Abstract authors are responsible for notifying financial and other sponsors about this embargo policy. Questions about the embargo policy may be directed to [press@astro.org](mailto:press@astro.org).

The full text of the abstracts selected for oral and poster presentation will be available online in the Conference Planner and MyASTROApp at 5:00 p.m. Central time on Friday, October 21, 2022. Abstracts will also be published online in the *International Journal of Radiation Oncology • Biology • Physics* (Red Journal) at that time.

## ASTRO RESOURCE CENTER

📍 Main Lobby, Street Level

ASTRO representatives will be available to answer questions about the Annual Meeting, ASTRO membership, continuing education, MOC requirements, session and meeting evaluations, and provide information on any of ASTRO's products and services. They can also assist with MyASTROApp, the Conference Planner and setting up a social media account. Additionally, badge ribbons will be available for pick up for 25-year members, APEX participants, RO-ILS participants and *ASTROnews* Editorial Board members.

### Hours of operation:

Saturday, October 22	7:00 a.m. – 5:00 p.m.
Sunday, October 23	6:30 a.m. – 5:00 p.m.
Monday, October 24	7:00 a.m. – 5:00 p.m.
Tuesday, October 25	7:00 a.m. – 5:00 p.m.
Wednesday, October 26	7:00 a.m. – 2:00 p.m.



## ASTRO ANNUAL MEETING CAREER CENTER

📍 Room 212, Meeting Level

Employers and job seekers: Check out the new ASTRO Career Center! Employers attending the Annual Meeting will want to take advantage of the updated Annual Meeting job posting and appointment scheduling features. Job seekers, be sure to post your résumé on the ASTRO Job Board. Whether attending the Annual Meeting as an employer or a job seeker, don't miss the opportunity to connect with potential candidates or your new employer!

## ASTRO JOB BOARD

📍 Outside Room 213, Meeting Level

Employers who are attending the Annual Meeting can flag job postings online prior to the meeting and connect with job seekers on site. Copies of job postings will be available on site. Job seekers may bring copies of their résumés to post on the on-site job board, located outside room 213, in addition to posting it online.

## ASTRO PRIVATE AND SEMI-PRIVATE INTERVIEW ROOMS

Private interview rooms are available for rent. These rooms are ideal if you have multiple interviews to conduct or prefer to interview applicants in a private setting. A limited number of private interview rooms are available for three-hour periods. For more information, contact Todd Karstaedt at [todd.karstaedt@astro.org](mailto:todd.karstaedt@astro.org). On site, stop by the ASTRO Resource Center located in the Main Lobby to check availability. Semi-private interview booths are also available and can be scheduled on the ASTRO Career Center website.

## ASTRO Bistro

The ASTRO Bistro is back and will once again be offered in the Exhibit Hall. The Bistro menu includes buffet-style meals with different cuisine options offered each day. The ASTRO Bistro provides a comfortable place to eat, meet and network with colleagues and exhibitors. View sample menus at [www.astro.org/astrobistro](http://www.astro.org/astrobistro).

ASTRO Bistro tickets are valid for lunch only on the day requested. ASTRO Bistro tickets are only redeemable at the ASTRO Bistro and cannot be used at other concessions within the Henry B. Gonzalez Convention Center. Unredeemed ASTRO Bistro tickets cannot be used on the following day. ASTRO Bistro tickets are nonrefundable.

**Location:** Exhibit Hall, front of Hall 4

**Dates:** Sunday, October 23 – Tuesday, October 25

**Time:** 11:00 a.m. – 2:30 p.m.

**ASTRO Bistro Lunch Ticket (per person/day):** \$30

ASTRO Bistro tickets can be purchased online via the registration process at [www.astro.org/amregister](http://www.astro.org/amregister) until Friday, October 14. After October 14, a limited number of tickets may be available for purchase on site at the ASTRO Bistro on a first-come, first-served basis. Advance ticket purchase is strongly encouraged.



### ASTRO PAC POD

📍 Main Lobby, Street Level

ASTRO's political action committee (PAC) pod allows members to get information on ASTRO's advocacy and political giving, contribute on site and charge their electronic devices. ASTRO PAC provides ASTRO with the opportunity to more fully participate in the political process and ensure our members' voices are being heard by key policymakers on Capitol Hill. Stop by the ASTRO PAC pod to get the most recent legislative updates. For more information, please email [colin.whitney@astro.org](mailto:colin.whitney@astro.org) or visit [www.astro.org/astropac](http://www.astro.org/astropac).

### Hours of operation:

Sunday, October 23 – Tuesday, October 25  
10:00 a.m. – 5:00 p.m.

### BUSINESS CENTER

📍 Off the Main Lobby, Street Level

A UPS Store is conveniently located on the Street Level of the Henry B. Gonzalez Convention Center. Here you can ship, mail, fax, copy or create last minute presentations. This location also has self-service computers and copiers. To contact the business center, please call 210-258-8950.

### Hours of operation:

Saturday, October 22	8:30 a.m. – 5:00 p.m.
Sunday, October 23	8:30 a.m. – 5:00 p.m.
Monday, October 24	8:30 a.m. – 5:00 p.m.
Tuesday, October 25	8:30 a.m. – 5:00 p.m.
Wednesday, October 26	8:30 a.m. – 3:00 p.m.

Connect with attendees.  Tweet #ASTRO22



SPONSORED BY:  AstraZeneca

### ASTRO GAME ZONE

📍 Back of Hall 2

New this year! Need a brain break or just want to crush your colleague in a spirited game of shuffleboard? The ASTRO Game Zone is a place for attendees and exhibitors to take a break from their day and have a little fun. There will be a variety of activities offered in this area such as corn hole, Jenga and Operation, to name a few. Don't miss out on the fun!

## BUSINESS MEETING AND LUNCHEON

📍 Hemisfair Ballroom C2/3,

Tuesday, October 25 | 11:30 a.m. – 12:45 p.m.

ASTRO voting members (Active, Affiliate and International members) are invited to attend the annual Business Meeting. Leaders of the Society will discuss topics of interest to ASTRO members. Lunch will be served.

## CHILD CARE SERVICES

We recognize that it can be difficult to balance parenting and the need for child care while attending a conference. If you plan to bring your children to San Antonio as you attend the Annual Meeting, please visit our website at [www.astro.org/childcare](http://www.astro.org/childcare) for local child care services. Please note that COVID-19 has significantly changed the child care industry in San Antonio and ASTRO was only able to identify one provider for this year and care needs to be arranged in advance of the meeting.

As a registration reminder, because of the nature of the programs and forums, no one under the age of 18 will be admitted to any official ASTRO function. This includes, but is not limited to, all sessions and the Exhibit Hall. View the complete list of Annual Meeting policies at [www.astro.org/policies](http://www.astro.org/policies). If you have questions while at the meeting, please stop by the ASTRO Resource Center, located in the Main Lobby of the Henry B. Gonzalez Convention Center, and speak with one of our staff.

## COVID-19 SAFETY

**Your safety is our priority!**

We are closely monitoring federal, state and local recommendations and will update our safety protocols based on the current conditions at the time of the meeting. For more information about ASTRO's health and safety protocols and any updates, visit [astro.org/safety](http://astro.org/safety).



## EXHIBIT HALL

📍 Halls 2-4

Learn more about the latest products in cancer treatment and care in the Exhibit Hall.

### Hours of operation:

Sunday, October 23 – Tuesday, October 25  
10:00 a.m. – 5:00 p.m.

**NEW!**

### Exhibit Hall Networking Reception

All registered attendees are invited to the Exhibit Hall Networking Reception hosted by ASTRO and participating exhibiting companies on Monday, October 24, from 4:00 p.m. to 5:00 p.m. This is a great opportunity for you to meet with industry partners over a beverage and refreshments while learning about the latest products, technology and services. You will receive a complimentary drink ticket on site when you check in to receive your registration materials.

## EXHIBITOR PRODUCT INFORMATION

Your registration badge will include a scan code that contains your contact information. This code can be scanned by exhibitors in the Exhibit Hall so that you may request information on products and services offered by the company. Your contact information will include your email address, unless you opted not to include it during the registration process. Please stop by Attendee Registration, located in Hall 1, if you would like to change your contact information.

## ASTRO 2022 UNRESTRICTED EDUCATIONAL GRANT SUPPORTERS

\*Current as of August 25, 2022

Merck & Co., Inc.

Novocure, Inc.

Pfizer, Inc.

**FACULTY/VIP OFFICE**

📍 Room 221A, Meeting Level

Faculty members and VIPs should check in at the Faculty/VIP Office to pick up registration materials and receive last-minute updates and program changes. The Faculty/VIP Office is conveniently located next to the Speaker Ready Room. Faculty and VIPs are welcome in the Faculty/VIP Office throughout the meeting.

Faculty and VIPs include:

- Educational session chairs and speakers
- Panel moderators and speakers
- Scientific program moderators and discussants
- Presidential Symposium speakers
- Keynote speakers and introducers
- International symposium speakers
- 2022 ASTRO Fellows
- 2022 ASTRO Gold Medalists

*Note:* Presenters of abstracts, including poster presenters, are not classified as faculty and should follow attendee registration instructions.

**Hours of operation:**

Saturday, October 22	6:30 a.m. – 6:00 p.m.
Sunday, October 23	6:30 a.m. – 6:00 p.m.
Monday, October 24	7:00 a.m. – 6:00 p.m.
Tuesday, October 25	7:00 a.m. – 6:00 p.m.
Wednesday, October 26	7:00 a.m. – 1:45 p.m.

**LOST AND FOUND**

📍 ASTRO Resource Center, Street Level

To report a missing item or turn in a lost item, stop by the ASTRO Resource Center located in the Main Lobby.

Hours of operation:

Saturday, October 22	7:00 a.m. – 5:00 p.m.
Sunday, October 23	6:30 a.m. – 5:00 p.m.
Monday, October 24	7:00 a.m. – 5:00 p.m.
Tuesday, October 25	7:00 a.m. – 5:00 p.m.
Wednesday, October 26	7:00 a.m. – 2:00 p.m.

**FIRST AID**

📍 Room 1109, Street Level

First Aid and Building Emergency: 210-207-7773 or extension 7773 from a house phone.

First Aid is in Room 1109 at the Henry B. Gonzalez Convention Center. In an emergency, please dial 210-207-7773 to contact First Aid or go to ASTRO Registration, located in Hall 1, and have a staff person contact security.

**Hours of operation:**

Monday, October 17	8:00 a.m. – 5:00 p.m.
Tuesday, October 18	8:00 a.m. – 5:00 p.m.
Wednesday, October 19	8:00 a.m. – 5:00 p.m.
Thursday, October 20	8:00 a.m. – 8:00 p.m.
Friday, October 21	8:00 a.m. – 8:00 p.m.
Saturday, October 22	8:00 a.m. – 8:00 p.m.
Sunday, October 23	6:30 a.m. – 6:00 p.m.
Monday, October 24	7:00 a.m. – 7:00 p.m.
Tuesday, October 25	7:00 a.m. – 12:00 a.m.
Wednesday, October 26	7:00 a.m. – 8:00 p.m.
Thursday, October 27	8:00 a.m. – 12:00 p.m.

**General Safety Tips for Travelers**

All attendees are encouraged to follow general safety guidelines when traveling.

- Share your travel itinerary with someone you trust.
- Travel with a buddy throughout the city.
- Stay aware of your surroundings.
- Remove your Annual Meeting Badge when away from convention center.
- In case of emergency, dial 911. For convention center security and first aid, dial 210-207-7773 or extension 7773 from a house phone.

**LUGGAGE/COAT CHECK**

📍 West Registration, Street Level

Luggage and coat check will be available at the Henry B. Gonzalez Convention Center in West Registration on the Street Level for \$2.00 per item.

**Hours of operation:**

Saturday, October 22	7:30 a.m. – 6:00 p.m.
Sunday, October 23	6:00 a.m. – 6:30 p.m.
Monday, October 24	7:00 a.m. – 7:00 p.m.
Tuesday, October 25	7:00 a.m. – 6:30 p.m.
Wednesday, October 26	7:00 a.m. – 3:00 p.m.

## MEDITATION ROOM

📍 Room 215, Meeting Level

A meditation room is available in Room 215 on the Meeting Level for those that need a place for prayer and contemplation.

### Hours of Operation:

Saturday, October 22	7:00 a.m. – 5:00 p.m.
Sunday, October 23	6:30 a.m. – 6:00 p.m.
Monday, October 24	6:30 a.m. – 6:00 p.m.
Tuesday, October 25	7:00 a.m. – 6:00 p.m.
Wednesday, October 26	7:00 a.m. – 2:00 p.m.

## MOTHER'S LOUNGE

📍 Room 1212 on Street Level and Room 2137 on Meeting Level

There will be two dedicated Mother's Lounges available for individuals who need to pump, nurse or have quiet time with their baby. Each room will have a privacy lock on the door, comfortable seating, power outlets and other amenities. Access to both Mother's Lounges will be available Saturday to Wednesday on a first-come, first-served basis. If you have questions during the meeting, please stop by the ASTRO Resource Center located in the Main Lobby, Street Level of the convention center.

### Hours of Operation:

Saturday, October 22	7:00 a.m. – 6:00 p.m.
Sunday, October 23	6:30 a.m. – 6:00 p.m.
Monday, October 24	6:30 a.m. – 6:00 p.m.
Tuesday, October 25	7:00 a.m. – 6:00 p.m.
Wednesday, October 26	7:00 a.m. – 2:30 p.m.

## NEWS BRIEFINGS AND PRESS OFFICE

📍 Rooms 225C and 225D, Meeting Level

Registered media professionals are provided with press materials and access to cover ASTRO's 64th Annual Meeting. ASTRO news briefings will highlight abstracts presented at the Annual Meeting and topical issues that impact cancer care. For more information about ASTRO's press program, news briefings and press policies, visit [www.astro.org/annualmeetingpress](http://www.astro.org/annualmeetingpress) or email [press@astro.org](mailto:press@astro.org).

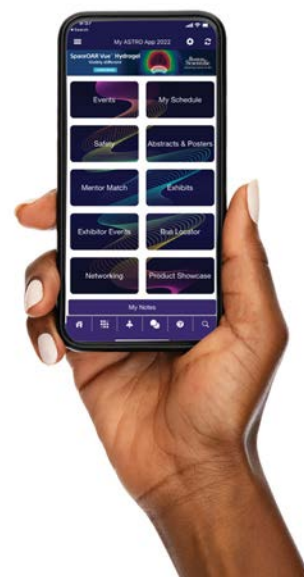
# MyASTROApp

YOUR ANNUAL MEETING RESOURCE

MyASTROApp, the official ASTRO 2022 meeting app, provides you with access to the meeting program and the ability to customize your experience with maps and planners. You can search sessions by day, track, session type or speaker; search exhibitors by name or product/service category and locate them on the interactive Exhibit Hall floor plan; view full abstracts and posters, listen to narration and much more!

The app is integrated with the Conference Planner, at [www.astro.org/conferenceplanner](http://www.astro.org/conferenceplanner), so you can start your planning early. On the Conference Planner, you can add sessions to your schedule and bookmark exhibitors, abstracts and posters.

MyASTROApp is available for iOS and Android devices and can be downloaded from your device's app store. *Note to iPhone users:* This app works best on iOS10 or newer and may not be supported on older operating systems.



## PARKING

While there are no parking facilities at the Henry B. Gonzalez Convention Center, there are several parking garages located close to the convention center. Nearby parking includes the parking garage at 850 E. Commerce directly across from the Lila Cockrell Theatre, as well as at the Grand Hyatt Hotel at 600 E. Market Street. For more information on parking options and current rates, visit the Henry B. Gonzalez Convention Center website at [www.sahbgcc.com](http://www.sahbgcc.com). All parking is available for public use for a fee.

Please note that ASTRO does not validate for parking. Parking rates are subject to change at any time.



## POSTERS

📍 Hall 1

Over 1,300 posters will be presented at this year's meeting. We have expanded the in-person program to include 10 poster sessions to allow attendees more time to visit all posters of interest and ask poster authors questions. Poster Q&A sessions will provide presenters with five minutes for presentation and Q&A followed by open Q&A time. Poster Q&A sessions will only be included as part of the in-person program. However, poster authors can add audio narration to their posters, so virtual meeting attendees can listen to those presentations and ask questions through the Virtual Poster Library.

**Important!** Attendees are encouraged to view and listen to narrated posters prior to attending Poster Q&A sessions and come to sessions with questions for presenters. Posters can be viewed on the Conference Planner at [www.astro.org/conferenceplanner](http://www.astro.org/conferenceplanner), the MyASTROApp, and the ASTRO website.

## POSTER CONCIERGE DESK

📍 Hall 1

Poster Q&A presenters may check in at the Poster Concierge Desk, located in Hall 1, 24 hours prior to their presentation time. **Presenters should use the Hall 1 entrance that is located behind the Market Café and adjacent to the Exhibit Hall entrance in the Main Lobby.** Staff will be available to assist presenters with uploading any last-minute changes and to help presenters find their assigned station.

### Poster Hall Hours:

Sunday, October 23	10:00 a.m. – 6:00 p.m.
Monday, October 24	8:45 a.m. – 6:00 p.m.
Tuesday, October 25	8:45 a.m. – 6:15 p.m.
Wednesday, October 26	8:45 a.m. – 1:45 p.m.

## POSTER Q&A SESSIONS

Poster Q&A sessions will be held during the times below. If you are looking for a specific poster author or institution, more information can be found on the Conference Planner at [www.astro.org/conferenceplanner](http://www.astro.org/conferenceplanner) or on the MyASTROApp.

### Sunday, October 23

**Poster Q&A Session 1** | 4:45 p.m. – 6:00 p.m.

Lung Cancer/Thoracic Malignancies and Diversity, Equity and Inclusion in Healthcare

### Monday, October 24

**Poster Q&A Session 2** | 10:45 a.m. – 12:00 p.m.

Central Nervous System and Palliative Care

**Poster Q&A Session 3** | 3:00 p.m. – 4:00 p.m.

Breast Cancer and Nonmalignant Disease

**Poster Q&A Session 4** | 5:00 p.m. – 6:00 p.m.

Radiation and Cancer Biology and Patient Reported Outcomes/QoL/Survivorship

### Tuesday, October 25

**Poster Q&A Session 5** | 12:45 p.m. – 2:00 p.m.

Gastrointestinal Cancer and Sarcoma & Cutaneous Tumors

**Poster Q&A Session 6** | 2:30 p.m. – 3:45 p.m.

Genitourinary Cancer, Patient Safety, and Nursing & Supportive Care

**Poster Q&A Session 7** | 4:00 p.m. – 5:00 p.m.

Digital Health Innovation and Hematologic Malignancies

**Poster Q&A Session 8** | 5:15 p.m. – 6:15 p.m.

Gynecological Cancer, Pediatric Cancer, and Professional Development/Medical Education

### Wednesday, October 26

**Poster Q&A Session 9** | 10:30 a.m. – 11:45 a.m.

Head & Neck Cancer and Health Services Research/Global Oncology

**Poster Q&A Session 10** | 12:30 p.m. – 1:45 p.m.

Radiation and Cancer Physics

## ROhub 2022 ANNUAL MEETING COMMUNITY

The Annual Meeting community on the ROhub brings you the latest news and updates leading up to the meeting through daily emails. Upon registration, full meeting attendees in-person and virtual, are added to the community and will receive emails of recent posts and activity. Visit the community to interact with fellow attendees and presenters, ask questions about the meeting, gain insights from presenters and more.



## ROI BOOTH

📍 Main Lobby, Street Level

As ASTRO's research foundation, the Radiation Oncology Institute (ROI) has funded more than \$4 million in research to improve the outcomes for cancer patients and drive the field of radiation oncology forward. Stop by the ROI booth to learn more about recently awarded research projects, meet research grantees who will be presenting at the conference, and discover how you can support this work through a donation to a 501(c)(3) charity dedicated to advancing radiation therapy.

This year, the ROI 5k will be held on Tuesday, October 25 at 7:00 a.m. along the River Walk. Stop by the ROI booth to register for the race and pick up your race bib!

### Hours of operation:

Sunday, October 23	8:00 a.m. – 5:00 p.m.
Monday, October 24	8:00 a.m. – 5:00 p.m.
Tuesday, October 25	9:00 a.m. – 5:00 p.m.

## SCIENCE HIGHLIGHTS

These sessions will highlight important abstracts in six disease site tracks. Expert discussants will provide an overview of four to six top-rated abstracts highlighting clinically applicable information and comparing the abstracts with similar studies.

**Monday, October 24 | 8:00 a.m. – 8:30 a.m.**

**Science Highlights 1:** Central Nervous System  
📍 Hemisfair Ballroom C1

**Science Highlights 2:** Genitourinary Cancer  
📍 Room 214

**Tuesday, October 25 | 8:00 a.m. – 8:30 a.m.**

**Science Highlights 3:** Head and Neck Cancer  
📍 Room 302

**Science Highlights 4:** Hematologic Malignancies  
📍 Room 207

**Wednesday, October 26 | 8:00 a.m. – 8:30 a.m.**

**Science Highlights 5:** Lung Cancer/Thoracic Malignancies  
📍 Room 214

**Science Highlights 6:** Gastrointestinal Cancer  
📍 Room 007 A/B

## ORAL SCIENTIFIC SESSIONS

There are 35 Oral Scientific Sessions, labeled as SS 01 – SS 35. These are 60- or 75-minute sessions where abstract presenters have seven minutes to discuss their study, followed by three minutes of Q&A with the audience. Oral Scientific Sessions are organized by disease site and include radiation physics, radiation biology, palliative care, patient reported outcomes/quality of life/survivorship, pediatrics and digital health innovation and informatics. Oral Scientific Sessions are scheduled throughout the meeting and run concurrently with the other session types, such as the Education and Panel sessions.



## QUICK PITCH SCIENTIFIC SESSIONS

ASTRO is excited about the return of Quick Pitch Scientific Sessions, labeled as QP 01 – QP 22. These oral scientific presentation sessions are formatted with an introduction by the session moderator and short presentations by abstract presenters followed by a moderated Q&A period between presenters and the audience, ending with a brief closing by the moderator. Abstract presentations will be quick — five minutes with five slides — including any important “take-aways.”

## SMOKING

The Henry B. Gonzalez Convention Center is a nonsmoking facility.

## SPEAKER READY ROOM

📍 Room 221B/C, Meeting Level

Faculty members and abstract presenters should upload their PowerPoint presentations in advance of their sessions through the online Speaker Center by Friday, October 21 at noon, Central time. To ensure presentations have been properly uploaded, faculty members and abstract presenters **MUST** check in at the Speaker Ready Room upon arrival to the Henry B. Gonzalez Convention Center to review their presentation and make any last minute edits. Presentations received less than 24 hours prior to presentation risk having AV difficulties that are outside of our control.

## Hours of operation:

Saturday, October 22	6:30 a.m. – 6:00 p.m.
Sunday, October 23	6:30 a.m. – 6:00 p.m.
Monday, October 24	7:00 a.m. – 6:00 p.m.
Tuesday, October 25	7:00 a.m. – 6:00 p.m.
Wednesday, October 26	7:00 a.m. – 1:45 p.m.

## SPEED MENTORING

📍 Front of Hall 2, Near Posters






**Tuesday, October 25** | 12:45 p.m. – 2:45 p.m.

Whether you are a mentor or a mentee, mentoring relationships can have powerful, positive effects in your personal, academic and professional life. A Speed Mentoring event will take place on Tuesday, October 25. Speed mentoring is a series of short, focused conversations on specific topics. Mentees can rotate to different mentors during the allotted time period. ASTRO has invited mentor volunteers to host tables to discuss assigned topics. Registration is not required to participate in Speed Mentoring.



#ASTRO22

Follow ASTRO on social media for all the latest updates and announcements during the Annual Meeting. Use the hashtag #ASTRO22 on all your posts and to follow discussions. The #ASTRO22 Social Champions will be announced in October. Find out more about our social media policies and use of hashtags at [www.astro.org/socialmedia](http://www.astro.org/socialmedia).

-  @ASTRO\_org and @ASTRO\_Chair
-  @ASTRO\_org and @RT\_Answers (new!)
-  @AmericanSocietyforRadiationOncology
-  @american-society-for-radiation-oncology
-  ASTROTargetingCancer and RTAnswers

JOIN US FOR ASTRO'S ANNUAL  
**tweet UP**

ASTRO's Annual Tweet UP will be held on  
**Sunday, October 23 at 4:00 p.m.**

at the ASTRO Sign near the  
ASTRO Resource Center on the main floor.

## SURVIVOR CIRCLE

📍 Main Lobby, Street Level

Stop by the Survivor Circle booth to meet this year's recipients of the Survivor Circle Grants:\* Breast Cancer Resource Center and ThriveWell Cancer Foundation. While you are there, fold an origami crane. According to Japanese tradition, folding 1,000 paper cranes gives a person a chance to make one special wish come true. Help us reach our goal of 1,000 cranes and make a wish for the comfort and healing of our cancer patients.

*\*Survivor Circle grants are generously funded by Annual Meeting sponsors.*



## TRANSPORTATION

San Antonio offers many convenient transportation options to help attendees easily get around the city. For more information, visit [www.astro.org/travel](http://www.astro.org/travel).

### Rental Car Reservations

Avis Rent-A-Car is offering attendees special rates on car rentals during the Annual Meeting.

To reserve your Avis rental car, call 1-800-331-1600. Be sure to mention the Avis Worldwide Discount number J657704 when making your reservation.

### To and from the Airport

The San Antonio International Airport (SAT) is approximately 10 miles or 18 minutes from the Henry B. Gonzalez Convention Center.

### Taxi

On average, a one-way taxi ride from the San Antonio International Airport (SAT) to the Henry B. Gonzalez Convention Center is approximately \$30.\*

*\*Gratuities not included.*

### Ride Sharing

San Antonio has a multitude of rideshare car service options, such as Uber or Lyft.

## WIRELESS INTERNET ACCESS

SPONSORED BY: **REGENERON**

Complimentary wireless internet access is provided in all common areas, session rooms and the Exhibit Hall. Laptops must have a Wi-Fi card to connect.



## The Right Choice™

Looking for a **transparent assessment** of your practice?

Look to ASTRO's APEX – Accreditation Program for Excellence®, the fastest growing radiation oncology accreditation program in the U.S.

### WHY CHOOSE APEX?

APEX is the right choice for your radiation oncology practice because:

- ▶ APEX focuses the entire radiation team on patient-centered safety and ongoing quality improvement.
- ▶ APEX serves as a partner and ally to radiation oncology practices to uncover potential blind spots.

### ALREADY ACCREDITED?

Now is the right time to **switch to APEX** because:

- ▶ APEX provides flexibility in cycle length and payment options to meet your practice's needs.
- ▶ APEX is recognized throughout the entire U.S., including states that mandate accreditation (e.g., New York, New Jersey, Michigan) and by the Veterans Administration.

**Already accredited by ASTRO?**

Stop by the ASTRO Resource Center to pick up your APEX Participant ribbon.

**Learn more about APEX at the ASTRO Resource Center.**

[www.astro.org/apex](http://www.astro.org/apex)  
[www.astro.org/annualmeeting](http://www.astro.org/annualmeeting)

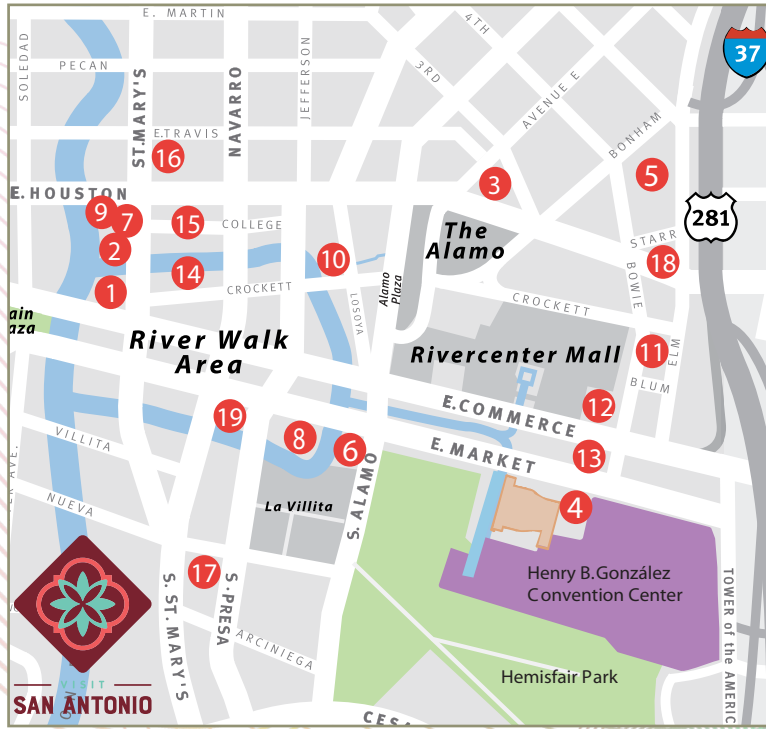
# EXHIBITOR LIST

ASTRO Ambassador members are listed in **bold**.

Current as of August 23, 2022

- .decimal
- 3D Systems
- AbbVie
- ABISA
- Acceletronics/RadParts
- **Accuray Incorporated**
- Adaptiiv Medical Technologies Inc.
- Advanced Accelerator Applications, Inc., A Novartis Company
- Advanced Radiation Therapy, LLC
- Aktina Medical Corporation
- Alpha Tau Medical LTD.
- American Association of Physicists in Medicine
- American Board of Radiology
- American College of Radiation Oncology
- Artera
- ASCO
- Ashland
- Aspekt Solutions
- **AstraZeneca**
- Atom Physics
- Avante Health Solutions
- B dot Medical Inc.
- Bayer
- BEBIG Medical GmbH
- Beekley Medical
- Beijing HGPT Technology & Trade Co., Ltd
- Biocept, Inc.
- Bionix
- BioProtect Ltd.
- BK Medical
- Blue Earth Diagnostics, Inc.
- Blue Physics
- Boston Scientific
- **Brainlab**
- C4 Imaging LLC
- Cancer CarePoint, Inc.
- Carina AI
- Carl Zeiss Meditec, Inc.
- Castle Biosciences, Inc.
- CDR Systems, Inc.
- CivaTech Oncology, Inc.
- CIVCO Radiotherapy
- Cleveland Clinic Cancer Center
- Cold Shot Chillers
- Cosylab
- C-RAD Inc.
- Deacon Recruiting
- Decipher Biosciences
- DoseOptics, LLC
- DYN'R
- Eastwall
- **Elekta**
- Elsevier
- Everson Tesla Inc.
- Foss Therapy Services Inc.
- FUJIFILM Healthcare Americas Corporation
- Fuse Oncology, Inc.
- GE Healthcare
- Genentech
- GenesisCare
- gKteso GmbH
- Gold Anchor
- GT Medical Technologies, Inc.
- H&H Design-Build
- HistoSonics
- IBA (Ion Beam Applications)
- Image Owl
- Imaging Technology News
- IntraOp Medical Corporation
- Iron Medical Systems, Inc.
- IsoAid
- IsoRay Medical, Inc.
- JANA Life Sciences
- Klarity
- KUKA
- Lantheus
- LAP of America Laser Applications LLC
- Leo Cancer Care
- Liberty Medical, Inc.
- Limbus AI
- LinaTech, LLC
- Linbeck Construction
- MacroMedics BV
- MagnetTx Oncology Solutions
- MANTEIA TECHNOLOGIES LTD
- Mayo Clinic
- MedLever, Inc.
- Medtronic
- Merck & Co., Inc.
- **Mevion Medical Systems**
- Miaderm at Aiden Industries, LLC
- Micropos Medical AB
- MIM Software
- Mirada Medical
- MiraDx
- Mission Search
- Modus Medical Devices Inc.
- Moffitt Cancer Center
- MPM Medical
- MViision AI Oy
- Myovant Sciences, Inc. & Pfizer, Inc.
- Myriad Genetics
- Myriad Medical LLC
- Nanovi A/S
- Naveris, Inc.
- NELCO
- NORLEAN MANUFACTURING AND PRODUCTIVIDAD, S.L.
- Novartis
- **Novocure**
- Numed, Inc.
- Oncology Practice Solutions
- Oncospace
- Orfit Industries America
- Palette Life Sciences
- Panacea Medical Technologies Inc.
- Par Scientific
- The Phantom Laboratory
- **Philips Healthcare**
- Pitts Little Corp.
- PMB-ALCEN
- Precision X-Ray
- PreludeDx
- Progenics, a Lantheus Company
- Promaxo
- Prowess, Inc.
- PTW North America Corporation
- Pymedix, Inc.
- Qfix
- Quantek Systems
- Quest Healthcare, A Division of Quest Products, Inc.
- RAD Technology Medical Systems
- Radformation
- Radiation Business Solutions
- Radiation Therapy Oncology Group
- Radiological Imaging Technology - RIT
- Radiology Oncology Systems, Inc.
- Ramssoft Inc
- RaySearch
- **Reflexion**
- Regeneron Pharmaceuticals
- Rejùvaskin
- Revenue Cycle Coding Strategies
- RS&A, Inc.
- RTsafe P.C.
- Samsung
- ScandiDos
- Seagen Inc.
- Shielding Construction Solutions, Inc.
- Siteman Cancer Center
- Sky Factory
- Soliant
- Spellman High Voltage Electronics Corporation
- Standard Imaging
- Stratpharma Switzerland
- Sumitomo Heavy Industries, Ltd.
- Sun Nuclear Corporation
- Suremark Company
- T&D Tungsten Manufacturing Inc
- Teledyne e2v UK Ltd
- Theragenics
- TheraPanacea
- Toshiba Energy Systems & Solutions Corporation
- Triplet State Technology LLC
- trü Level Design & Construction
- TTG Imaging Solutions
- Ultimate Vitality
- **Varian, A Siemens Healthineers Company**
- Veritas Medical Solutions
- Virtual, Ltd.
- Videra Surgical
- **ViewRay, Inc.**
- Vision RT, Ltd.
- Wolters Kluwer
- Xcision Medical Systems, LLC
- Xecan
- Xstrahl

# HOTEL MAP



*Note: Rates quoted are for one night and exclude taxes and additional fees. Most hotels will charge for three or more people to a room. Some hotels with premium rooms may charge additional fees for a specific room type.*

MAP LOCATION	HOTEL	DISTANCE TO CONVENTION CENTER	MAP LOCATION	HOTEL	DISTANCE TO CONVENTION CENTER
1	<b>Canopy by Hilton San Antonio Riverwalk</b> 123 N. St. Mary's Street	3 blocks	11	<b>La Quinta Inn &amp; Suites San Antonio Riverwalk</b> 303 Blum St.	1 block
2	<b>Courtyard by Marriott San Antonio Riverwalk</b> 207 N. St. Mary's Street	6 blocks	12	<b>Marriott Rivercenter, San Antonio (HQ)</b> 101 Bowie St.	1 block
3	<b>Emily Morgan San Antonio - a Double Tree by Hilton Hotel, The</b> 705 E. Houston Street	6 blocks	13	<b>Marriott Riverwalk, San Antonio (HQ)</b> 889 E. Market St.	Across the street
4	<b>Grand Hyatt San Antonio (HQ)</b> 600 E. Market St.	Adjacent	14	<b>Mokara Hotel &amp; Spa</b> 212 W. Crockett St.	5 blocks
5	<b>Hampton Inn San Antonio—Downtown (Riverwalk)</b> 414 Bowie St.	3 blocks	15	<b>Omni La Mansion del Rio</b> 112 College St.	5 blocks
6	<b>Hilton Palacio del Rio</b> 200 S. Alamo St.	4 blocks	16	<b>Sheraton Gunter</b> 205 E. Houston St.	6 blocks
7	<b>Holiday Inn San Antonio Riverwalk</b> 217 N. St. Mary's Street	6 blocks	17	<b>Springhill Suites San Antonio Downtown/ Riverwalk Area</b> 524 S. St. Mary's St.	5 blocks
8	<b>Hotel Contessa Luxury Suites</b> 306 W. Market St.	3 blocks	18	<b>Tru by Hilton San Antonio Downtown</b> 901 E. Houston St.	3 blocks
9	<b>Hotel Valencia Riverwalk</b> 150 E. Houston St.	6 blocks	19	<b>Westin Riverwalk, San Antonio, The</b> 420 W. Market St.	3 blocks
10	<b>Hyatt Regency San Antonio Riverwalk</b> 123 Losoya St.	4 blocks			

## SHUTTLE SERVICE TO HENRY B. GONZALEZ CONVENTION CENTER

This is preliminary information only, which is subject to change at any time without notice.  
Please refer to the sign in your hotel lobby for updated information.

### Hours of operation:

Service will operate every 20 minutes.

Saturday, October 22	7:00 a.m.-7:30 p.m.
Sunday, October 23	6:30 a.m.-7:00 p.m.
Monday, October 24	6:30 a.m.-7:00 p.m.
Tuesday, October 25	6:00 a.m.-7:00 p.m.
Wednesday, October 26	7:00 a.m.-2:30 p.m.

### Hotels and Boarding Locations

All travel times are approximate pending time of day, day of week and traffic conditions.

ROUTE	HOTEL	AT HOTEL	APPROXIMATE ONE-WAY TRAVEL TIME
1	Canopy by Hilton San Antonio Riverwalk	Curbside N. St. Mary's St. Entrance	15 minutes
	Courtyard by Marriott San Antonio Riverwalk	At Canopy by Hilton Stop	
	Holiday Inn San Antonio Riverwalk	At Canopy by Hilton Stop	
	Hotel Valencia Riverwalk	At Sheraton Gunter Stop	
	Mokara Hotel & Spa	At Canopy by Hilton Stop	
	Omni La Mansion del Rio	Across Navarro St. at College St.	
	Sheraton Gunter	Across N. St. Mary's St. at E. Houston St.	
2	Emily Morgan San Antonio – a Double Tree by Hilton Hotel	Across Ave. E at E. Houston St.	14 minutes
	Hampton Inn San Antonio Riverwalk – Downtown	Curbside Bowie St. by Lobby	
	Hyatt Regency San Antonio Riverwalk	Curbside Lobby Entrance on Losoya St.	
	Tru by Hilton San Antonio Riverwalk Downtown	At Hampton Inn Stop	
3	Hotel Contessa Luxury Suites	At Westin Riverwalk Stop	12 minutes
	Hyatt Place Riverwalk (ASRT Hotel)	At Springhill Suites Stop	
	Springhill Suites San Antonio Downtown/Riverwalk Area	Curbside S. St. Mary's St. by Lobby	
	Westin Riverwalk, San Antonio	Curbside Lobby Entrance on Market St.	
Walk	Grand Hyatt San Antonio	Hotels are located within walking distance of Henry B. Gonzalez Convention Center.	
	Hilton Palacio del Rio		
	La Quinta Inn & Suites San Antonio Riverwalk		
	Marriott Rivercenter, San Antonio		
	Marriott Riverwalk, San Antonio		

Guests attending the ASRT Radiation Therapy Conference may walk between their hotels and the Marriott Rivercenter or ride the appropriate ASTRO shuttle route to/from the convention center, which is located one block from the Marriott Rivercenter.

### NEW! ASTRO Shuttle Tracker

View maps of shuttle stops/locations, real-time information with next shuttle arrival time at hotel(s) and instant alerts about schedule changes or traffic disruptions. Access the ASTRO Shuttle Tracker on site by using the MyASTROApp.

# Innovations at ASTRO 2022



Comfort Marker 2.0  
Patient Marking System



Pediatric ProForm™  
Head & Neck Solution

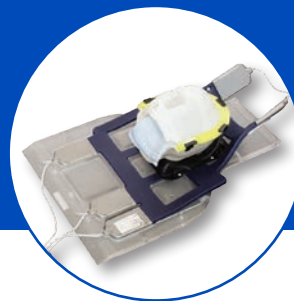


TotalRT  
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# INDUSTRY-EXPERT THEATER

This activity allows companies to present their noteworthy products and services through live presentations. Seating is available on a first-come, first-served basis. **Visit the Industry-Expert Theaters in the back of the Exhibit Hall 2 and Room 216, Meeting Level during the following times:**

SUNDAY, OCTOBER 23		
<p><b>📍 Theater 1</b>  <b>11:00 a.m. – 12:00 p.m.</b>                      Accuray Incorporated  <i>AI: Adapt Intelligently</i></p>	<p><b>📍 Theater 2</b>  <b>11:00 a.m. – 12:00 p.m.</b>                      Castle Biosciences, Inc.  <i>Personalized Risk Assessment for High-Risk Squamous Cell Carcinoma Patients</i></p>	<p><b>📍 Room 216, Meeting Level</b>  <b>11:00 a.m. – 12:00 p.m.</b>                      Blue Earth Diagnostics, Inc.  <i>Emerging Data on the Impact of Axumin® (fluciclovine F 18) PET Imaging on Radiotherapy Decisions</i></p>
<p><b>📍 Theater 1</b>  <b>4:00 p.m. – 5:00 p.m.</b>                      GE Healthcare  <i>The Future of Radiation Therapy Interoperability: From Complex Care Coordination to Enhanced Collaboration</i></p>	<p><b>📍 Theater 2</b>  <b>4:00 p.m. – 5:00 p.m.</b>                      Tae Life Sciences  <i>A Glimpse into the Future: Biologically Targeted Radiotherapy</i></p>	<p><b>📍 Room 216, Meeting Level</b>  <b>4:00 p.m. – 5:00 p.m.</b>                      AstraZeneca                      Title TBD</p>
MONDAY, OCTOBER 24		
<p><b>📍 Theater 1</b>  <b>12:00 p.m. – 1:00 p.m.</b>                      Myovant Sciences, Inc. &amp; Pfizer, Inc.  <i>An Oral Treatment Option for Advanced Prostate Cancer</i></p>	<p><b>📍 Theater 2</b>  <b>12:00 p.m. – 1:00 p.m.</b>                      GT Medical Technologies, Inc.  <i>GammaTile® Therapy: Brain Brachytherapy Powerfully Reimagined</i></p>	<p><b>📍 Room 216, Meeting Level</b>  <b>12:00 p.m. – 1:00 p.m.</b>                      Boston Scientific  <i>Controversies and Myths about Prostate Cancer Rectal Spacing</i></p>
<p><b>📍 Theater 1</b>  <b>4:00 p.m. – 5:00 p.m.</b>                      ViewRay, Inc.  <i>MRIdian A3i – Newest Innovation of MRgRT for Prostate, Pancreas, and Brain</i></p>	<p><b>📍 Theater 2</b>  <b>4:00 p.m. – 5:00 p.m.</b>                      Novocure  <i>Patient Forward Care: The Multidisciplinary Approach with Tumor Treating Fields</i></p>	<p><b>📍 Room 216, Meeting Level</b>  <b>4:00 p.m. – 5:00 p.m.</b>                      Novartis  <i>Radioligand Therapy: Open Clinical Trials and Logistics of Administration</i></p>
TUESDAY, OCTOBER 25		
<p><b>📍 Theater 1</b>  <b>12:00 p.m. – 1:00 p.m.</b>                      Seagen, Inc.  <i>TUKYSA® (tucatinib): Clinical Trial Data</i></p>	<p><b>📍 Theater 2</b>  <b>12:00 p.m. – 1:00 p.m.</b>                      TBD                      Title TBD</p>	<p><b>📍 Room 216, Meeting Level</b>  <b>12:00 p.m. – 1:00 p.m.</b>                      Philips Healthcare                      Title TBD</p>

\*Current as of August 25, 2022

For the most current information and company contact information, visit [www.astro.org/amIET](http://www.astro.org/amIET).

The Industry-Expert Theater content and views expressed therein are those of the companies and not of ASTRO.

# INDUSTRY SATELLITE SYMPOSIA

The American Society for Radiation Oncology (ASTRO) has reviewed and approved these symposia for presentation. These symposia represent the content and views of the supporters and are not part of the official ASTRO Annual Meeting.

*\*Current as of August 25, 2022*

## Sunday, October 23, 2022

6:00 p.m. - 8:00 p.m.

*Brainlab Novalis Circle Symposium-  
Clinical Applications of ExacTrac  
Dynamic*

**Location:** Grand Hyatt San Antonio, Lone Star Salon A/B  
600 E. Market Street  
San Antonio, TX 78205

Dinner will be provided starting at 6:00 p.m.

For more information or to register for our live symposium in San Antonio, please visit [www.novaliscircle.org](http://www.novaliscircle.org).

**CME Credits:** This is a Non-CME program.

**Target Audience:** This meeting is intended for radiation oncologists and medical physicists.

*This activity is independently supported by Brainlab.*

For more information on the Industry Satellite Symposia, please visit [www.astro.org/amISS](http://www.astro.org/amISS)

## Sunday, October 23, 2022

6:00 p.m. – 8:00 p.m.

*Harnessing Novel Synergies to Improve Survival in Aggressive Tumors: Clinical Insights on Tumor Treating Fields Within Multimodal Care*

**Location:** Marriott Rivercenter, San Antonio  
101 Bowie Street  
San Antonio, TX 78205

6:00 p.m. – 6:30 p.m.: Registration and Dinner

6:30 p.m. – 8:00 p.m.: Symposium

For more information or to register for our live symposium in San Antonio, please visit <https://PeerView.com/SanAntonio22-Live>.

**CME Credits:** PVI, PeerView Institute for Medical Education, designates this live activity for a maximum of 1.5 *AMA PRA Category 1 Credits*<sup>™</sup>. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

**Target Audience:** This activity has been designed to meet the educational needs of radiation oncologists, medical oncologists, neuro-oncologists and other healthcare professionals involved in the care of patients with solid tumors.

*This activity is supported through an educational grant from Novocure, Inc.*

## Monday, October 24, 2022

5:30 p.m. – 7:00 p.m.

*Innovations in the Treatment of LA SCCHN  
Enhancing Antitumor Activity through IAP Antagonism*

**Location:** Grand Hyatt San Antonio, Lone Star Salon A/B  
600 E. Market Street  
San Antonio, TX 78205

5:30 p.m. – 6:00 p.m.: Registration and Dinner

6:00 p.m. – 7:00 p.m.: Symposium

For more information or to register for our live symposium in San Antonio, please visit [www.reachmd.com/scchn](http://www.reachmd.com/scchn).

**CME Credits:** Global Learning Collaborative designates this live activity for a maximum of 1.0 *AMA PRA Category 1 Credits*<sup>™</sup>. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

**Target audience:** Medical oncologists, pathologists, radiation oncologists and other health care professionals treating patients with head and neck cancers.

*This activity is supported by an independent educational grant from health care business of Merck KGaA, Darmstadt, Germany.*



# ASTRO EXPERT THEATER

The ASTRO Expert Theater sessions will highlight new technologies, digital health innovation and informatics, artificial intelligence, entrepreneurship and much more! This space will be used by attendees and industry representatives for interactive idea sharing, networking, imaginative business solutions and brainstorming sessions that will transform the industry. All sessions are located in the back of the Exhibit Hall in Hall 2.

## Sunday, October 23

### Theater 1

2:00 p.m. – 3:00 p.m.

#### *Session I: Help Ukraine!*

Moderated by Robert Miller, MD, MBA, FASTRO, this session will provide attendees with a deeper understanding of efforts underway in Ukraine to help cancer patients. Attendees will learn about the current needs in Ukraine in relation to radiation oncology, the SAFER Ukraine program that is helping to evacuate pediatric patients, and support efforts of Ukrainians in the U.S. The session will conclude with a call to action and practical, specific ways to help those in Ukraine.

## Monday, October 24

### Theater 1

2:00 p.m. – 3:00 p.m.

#### *Session II: Digital Twins for Radiation Oncology: Concepts, Methods and Applications*

Jun Deng, PhD, FASTRO, Yale University, will moderate this session, exploring different facets of digital twins for predictive radiation oncology, including multimodal data curation, multiscale modeling and clinical applications.

### Theater 2

2:00 p.m. – 3:00 p.m.

#### *Session III: Critical Appraisal of Data-Driven Studies*

Julian Hong, MD, MS, University of California, will facilitate this session that critically appraises data-driven studies. Specific topics include when AI goes wrong and how can chances for success and fairness be optimized utilizing AI? The session will also explore how large databases can contribute to treatment recommendations, how AI-based radiotherapy planning can improve dosimetry quality and clinical acceptance, and finally, how the outcomes of biomarker studies optimize clinical impact.

## Tuesday, October 25

### Theater 1

2:00 p.m. – 3:00 p.m.

#### *Session IV: Text Mining and Processing in Radiation Oncology: An Untapped Resource?*

Moderated by John Kang, PhD, University of Washington, this session will look at three areas where text mining and processing in radiation oncology is an untapped resource: 1) NLP for cohort discovery and registry creation; 2) NLP for semantic understanding of medical concepts; and 3) NLP for toxicity prediction.



**Partners in Patient Education**  
American Society for Radiation Oncology

*Thank You*

**Thank you for your generous support of ASTRO's patient education program.**



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\*Current as of August 25, 2022



## 2022 ASTRO GOLD MEDAL RECIPIENTS

*Luminaries in Radiation Oncology Awarded Society's Most Prestigious Award*

BY JENNIFER JANG AND DIANE KEAN, ASTRO COMMUNICATIONS

**ASTRO AWARDS ITS HIGHEST HONOR**, the ASTRO Gold Medal, to those who have made significant impacts to the field of radiation oncology. ASTRO Gold Medal recipients represent a premium class of leaders who have contributed to the field through their clinical patient care, research, teaching, mentorship and service. Congratulations to the 2022 ASTRO Gold Medal recipients: Wendell Lutz, PhD, and Tim R. Williams, MD, FASTRO, who join the revered class in receiving ASTRO's highest honor.

**Wendell Lutz, PhD**, is a medical physicist, engineer, inventor and educator whose contributions have led to significant advancements to the field of radiation oncology. Dr. Lutz's career spans decades during which the field has seen growth and change, but his lasting contributions still positively impact radiation oncology today.

Dr. Lutz received his undergraduate degree in Physics from Wittenberg University, in Ohio, a field of study he naturally gravitated to as his father was a professor of physics at the university. Dr. Lutz grew up playing in university labs, his toys various physics related devices. That early exposure led to Dr. Lutz receiving his PhD in nuclear physics in 1973 from Purdue University. He then moved to Iran to teach physics at Pahlavi University. Returning stateside, Dr. Lutz taught physics at the Coast Guard Academy in New London, Connecticut. After five years, an opportunity to train with medical physicists at Harvard's Joint Center for Radiation Therapy (JCRT) brought him to Boston. What initially was going to be a six month to one year stint turned into some of the most meaningful and influential years of his career.

Under the leadership of Bengt Bjarngard, PhD, and Samuel Hellman, MD, Dr. Lutz was able to work on various projects for the department, most notably, a partnership that ensued with Ken Winston, MD, a neurosurgeon at Harvard. Together, they developed a very impactful contribution to the field of radiation oncology — a linear accelerator-based stereotactic radiosurgery (SRS) system.



Often called the “fathers of linac-radiosurgery,” together the partners “ushered in a remarkable era of technology advancement in the field” by developing a precision technique to deliver high dose radiation in single fractions to the brain, which then paved the way to deliver this treatment to other areas of the body.

After this development, Dr. Lutz transitioned to the Radiation Oncology Department at the University of Arizona in Tucson under the leadership of chair Robert Cassady, MD, and with colleagues started developing the equipment and planning software to assist others in replicating the JCRT method. As noted in a 2014 *ASTROnews* article on the topic, Dr. Lutz wrote, “With Dr. Cassady's support and significant contributions from Dr. Bruce Lulu and Bill Kimball, we assisted almost 40 institutions in implementing this radiosurgery technique.” Commercialized variations and improvements in this technique have been adopted worldwide and benefited many patients.

When reflecting on this accomplishment, Dr. Lutz remains, as his colleagues are apt to point out, ever humble. “I am proud of the opportunity we had to help so many places begin radiosurgery,” said Dr. Lutz. “But there is always a 'we' and being able to work with Dr. Winston and other colleagues at the JCRT on the radiosurgery project is something I am very proud of.”

Dr. Lutz also shared another lesser well-known accomplishment from his time at the JCRT that he is very proud of. Dr. Lutz, in collaboration with colleagues, designed and built a unique two-linac total body irradiator in support of a large bone marrow transplant program at the Brigham and Women's Hospital. This equipment, which was originally two decommissioned linacs, ended up being in use for 35 years and, while the impact was local within the program, extended the lives of thousands of patients.

Dr. Lutz is renowned as an innovator in the creation of many quality assurance (QA) techniques and devices, including the Lutz Isocenter Checker, the Lutz Phantom and the Lutz Stereotactic Box. His methods

and creations have been studied and adopted worldwide and formed a foundation leading to the development of stereotactic body radiation therapy. The Winston-Lutz test continues to be used universally for ensuring the accurate implementation of SRS and SBRT. “I was always focused on the patients. Are the patients being treated properly, are the linacs working properly,” said Dr. Lutz.

Throughout his career, and perhaps due in part to the influence of his parents, his father a professor and his mother a school teacher, Dr. Lutz served as an enthusiastic and dedicated educator, contributing to the training of many medical physicists and radiation oncologists. Dr. Lutz held faculty positions at Harvard, Memorial Sloan Kettering Cancer Center (MSKCC) and the University of Arizona, working with post-doctoral students on their research projects and teaching radiation oncology residents medical physics. While at MSKCC, Dr. Lutz was honored with the Best Teacher Award and in 2010, Dr. Lutz received the Association of Residents in Radiation Oncology (ARRO) Educator of the Year award.

“I love teaching, and at all the different institutions where I worked, it allowed me to have informal and personal connections with medical residents,” Dr. Lutz said. “It was always a pleasure to work with the residents because they were interested, very bright, and of course, obligated to learn radiological physics.”

In 2002 Dr. Lutz left the east coast for good, transitioning from MSKCC back to the University of Arizona and began teaching part-time in the medical physics master’s program and the medical residents physics course. More recently, Dr. Lutz has worked with close friend and veterinary oncologist Dr. Mary Kay Klein, assisting in designing and building a linac-based radiation oncology facility to treat primarily dogs with cancer. Drs. Lutz and Klein, along with Dr. Sarah Charney, even developed a system for treating dogs with stereotactic radiosurgery/radiotherapy. This system has subsequently been used in many other veterinary clinics. In addition, for 10 years Dr. Lutz offered a free course in radiological physics in Tucson open to all veterinary residents throughout the country preparing for their board exams. Currently he is consulting with two start-up companies on using beta radiation to treat wet macular degeneration and advanced glaucoma eye disorders.

Dr. Lutz is highly decorated, receiving many awards and honors, including the Edith H. Quimby Lifetime Achievement Award in Medical Physics from the American Association of Physicists in Medicine, being

named distinguished alumnus by both Wittenberg and Purdue, and in 1992, Harvard endowed the Winston-Lutz Fellowship in his and Dr. Winston’s honor.

As noted in a letter of nomination from one of Dr. Lutz’s former students, Paul Harari, MD, FASTRO, former president and chair of ASTRO, “We honor the history of our field by recognizing original contributors like Wendell Lutz who have devoted their career to innovation, device creation and quality teaching for the benefit of the field of radiation oncology and the cancer patients we serve.”

“As a medical physicist, being recognized by ASTRO astonishes me,” Dr. Lutz said. “This Gold Medal award is the highest recognition I have received. I am truly honored.”



**Tim R. Williams, MD, FASTRO**, has been a board-certified radiation oncologist for more than 30 years, and is also the Medical Director of South Florida Proton Therapy Institute (SFPTI). Before moving to the Palm Beach area, he was assistant professor of Radiation Oncology at The Bowman Gray School of Medicine at Wake Forest University.

As the first in his family to receive a college degree, Dr. Williams is a cum laude graduate of the Georgia Institute of Technology (1978), received his MD from the Medical College of Georgia (1983), and took his residency at Shands Hospital at the University of Florida (1987). His original plan was to go into family medicine, but thanks to a spark in conversation with colleague Scott Gasiorek, MD, he was introduced to the field of radiation therapy. Dr. Gasiorek encouraged him to try a one-month rotation, and Dr. Williams discovered that he enjoyed the complexity of diagnostic radiology, the chance to make the diagnosis without invasive technology. He liked the idea of combining this science with the opportunity to have longer-term relationships with patients.

Dr. Williams is a long-time Palm Beach resident, joking that “they haven’t kicked him out yet.” His geographic commitment to one area is deceptive when considering his breadth of influence. For ASTRO alone, his contributions are many. In 2000, Dr. Williams was elected to the ASTRO Board of Directors as secretary, and in 2004, he became the senior editor of the *ASTROnews*. Subsequently, in 2008, Dr. Williams was elected president of ASTRO. His presidential address entitled “Radiation Oncology 2020” set a positive tone for the meeting that year and for our specialty.

*Continued on following page*

Dr. Williams' contribution to the field is even more significant when considering the past decade, a time for significant growth in the safety culture for our field. In January 2010, the New York Times broke the story, "Radiation heals but also harms," leading to numerous investigative articles hammering the specialty's safety record. Dr. Williams' leadership led to an ASTRO plan that focused on the safe administration of radiation therapy called "Target Safely." And to those outside of the field, he successfully represented the specialty, testifying before Congress to reassure legislators that the specialty would collaborate to address the exposed shortcomings. As highlighted by colleagues in his nomination letter, "Target Safely holds our specialty in good stead to this day and gives us the blueprint from which we built a culture of safety for our specialty that imbues every part of our current practice and patient care." Furthermore, his efforts set the stage for significant programs to emerge such as RO-ILS and APEX accreditation.

Alongside operating a full-time clinical practice and his leadership roles within ASTRO, Dr. Williams has also served many other organizations. He was chairman of the Board of Trustees of the American Registry of Radiologic Technologists, president of the Florida Radiological Society where he also received the Society's Gold medal, was a member of the Council Steering Committee for the American College of Radiology, and currently serves as the medical director for the Radiation Therapy Technology training program at Broward College. Additionally, Dr. Williams is a founding member of the International Cancer Expert Corps, is a Research Affiliate Professor in the Department of Physics at Florida Atlantic University, and currently serves as chair of the ASTRO Corporate Relations Committee. He has also previously served as a member of the Advisory Board for Radiation Protection for the State of Florida Department of Health, member of the Board of Trustees for the Radiation Oncology Institute, and the ASTRO Health Policy Committee, the International Education Committee, and the Association of Residents in Radiation Oncology.


Dr. Williams recognizes radiation oncologists' unique niche in the medical world as specialists who use powerful radiation beams to kill localized tumors. In his extensive career, he has seen the evolution of treatment planning systems to develop and improve the clinician's ability to calculate dose intensity profiles in four dimensions, calculations that were once done manually for a single point dose. Looking ahead, Dr. Williams noted that the further increases in technical capabilities, including quantum computing, will provide even safer and more effective treatments.

Dr. Williams observed that the challenge to clinical care is balancing the time spent in the physics side of the office with time spent in the clinic offering comprehensive services, including both the problem-focused and holistic aspects of a case. Finally, medicine is a personal connection, and interaction with the patient is more important than the technical, computer-oriented effort.

When considering the team dynamics of his job, Dr. Williams mused, "The more I learn about radiation oncology, the more I learn about life. There is no way to practice successfully without relying on experts from different areas of training, including physics, dosimetry, nursing, technologist and administration." Ever the visionary, he speculated, "I believe that in 10 to 20 years, the next generation of oncologists will exist more as a triad, acting as a team of specialists responsible for patient care, and a radiation oncologist, physicist, and tumor biologist will work together in the clinic to provide the best care possible. He can see a time where the clinician not only turns to the physicist for guidance in beam geometry, dose calculation and assessment of organs at risk, but he will also turn to a graduate level tumor biologist, who will offer guidance and insight as to the ongoing changes in the molecular profile and tumor micro-environment, allowing the physician to adjust the dose and fractionation scheme real time to offer higher control rates. "What an exciting time that will be for our specialty," Dr. Williams said. "That day is coming sooner than many think," he added.

When asked about the personal significance of the ASTRO Gold Medal, Dr. Williams reflected that he views himself as a simple community practitioner that has the privilege of coexisting among giants, "a sequoia forest of giants," as he acknowledges the advances those who came before him pushed forward in the specialty. He is grateful to have treated over 13,000 patients over his 35-year career and feels honored to be a part of their journey. He has taken a sidestep recently and authored a book, "Tim's World," to be published in October. He enjoys outdoor adventures and recently completed a solo kayaking trip in the Canadian arctic.

Dr. Williams also wishes to acknowledge the inestimable help and assistance of Emine Ozbay, the executive director of his practice, who is one of many in his career who supported his endeavors, allowing him to be in this special place today. Certainly, it is this humility and acknowledgment of the team effort that has contributed to Dr. Williams' incredible legacy.

Dr. Lutz and Dr. Williams will be honored on Tuesday, October 25, during the Annual Meeting Awards Ceremony in San Antonio. 



## ROBERT A. WINN, MD: 2022 Honorary Member

BY JENNIFER JANG, ASTRO COMMUNICATIONS

**ASTRO HAS NAMED ROBERT A. WINN, MD**, Director and Lipman Chair of Oncology at the Virginia Commonwealth University

(VCU) Massey Cancer Center, as the 2022 ASTRO Honorary Member, for his outstanding contributions to community-centered clinical care and improving diversity, equity and inclusion in oncology. Dr. Winn also serves as the Senior Associate Dean for Cancer Innovation and professor of pulmonary disease and critical care medicine at VCU School of Medicine.


Leading by example, Dr. Winn is nationally recognized for his community engagement efforts, promoting new approaches to building trust among populations previously disenfranchised from health care or excluded or abused in research. His priorities and perspective are evident in his wide-reaching engagements. For example, when considering this year's Annual Meeting theme, AI and EI: Caring for the Patient in a Wireless World, he said, "I hear so much talk about AI reshaping the way we approach health care, but it is essential that emotional intelligence is a part of it... We must connect with the community and gain its trust. You only get the benefits of high-tech if you also include what I like to call high-touch. You cannot do one without the other if equity and inclusion are the ultimate goals."

Dr. Winn realized early on that deeply rooted systemic issues contributed significantly to disproportionate

numbers in the diagnosis and treatment of cancer across racial groups and between urban and rural communities, observing: "Underserved patient populations are just that: populations of patients who, for too long, have not been served at the same level of other communities. Knowing this, I am propelled to improve health care delivery and ensure equal access to cutting-edge medical treatments for all people."

Most recently, during the pandemic, Dr. Winn launched a nationally heralded Facts & Faith Fridays conversation series, an initiative that creates a dialogue among science and community leaders to combat medical mistrust within the African American community. While providing opportunities for providers to engage directly with the community, other hosted guests have included Jill Biden, EdD., Anthony Fauci, MD, and Francis Collins, MD, PhD.

Creating a space for "we" conversations to happen, Dr. Winn believes that "People of all races, ethnicities, genders, sexual orientations, disabilities, creeds and geographical areas have a place at the table. We are breaking down barriers together, which is the way that it needs to be to truly make a change."

Dr. Winn will be recognized during ASTRO's 64th Annual Meeting Awards Ceremony on October 25 in San Antonio. To read more about Dr. Winn, please visit [www.astro.org/AMG22](http://www.astro.org/AMG22). 

## 2022 ASTRO Mentorship Award


**TWO MEMBERS** of the American Society for Radiation Oncology (ASTRO) have been selected to receive its inaugural ASTRO Mentorship Award. This award recognizes extraordinary role models in radiation oncology who have excelled as mentors by demonstrating outstanding commitment to the professional development of their mentees as clinicians, educators and researchers.

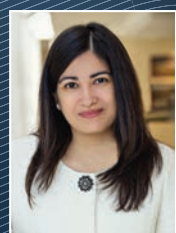
The Mentorship Award signals ASTRO's commitment to fostering the careers of the next generation of radiation oncology professionals by recognizing individuals who have dedicated their time, energy and expertise to advance the careers of others. ASTRO members are eligible

for nomination by a colleague or mentee with personal knowledge of the individual's mentoring activities.

ASTRO is proud to announce the recipients of the 2022 ASTRO Mentorship Award:

- **Reshma Jagsi, MD, DPhil, FASTRO**, University of Michigan, Ann Arbor Michigan
- **Charles Thomas Jr., MD, FASTRO**, Geisel School of Medicine at Dartmouth, Lebanon, New Hampshire

Dr. Jagsi and Dr. Thomas will be recognized during the Awards Ceremony on Tuesday, October 25, at the ASTRO Annual Meeting. 



Reshma Jagsi, MD, DPhil, FASTRO



Charles Thomas Jr., MD, FASTRO



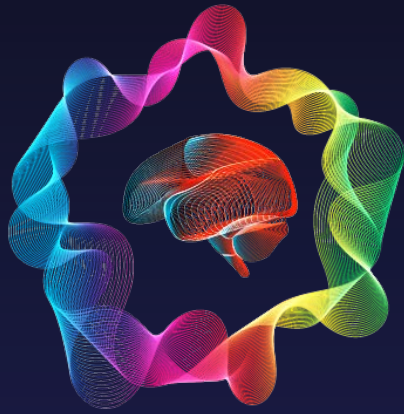
CLASS OF 2021 FELLOWS

## 2022 ASTRO *Fellows*

**TWENTY-SEVEN DISTINGUISHED MEMBERS** of the American Society for Radiation Oncology (ASTRO) have been named Fellows of ASTRO. The ASTRO Fellow designation, or FASTRO, honors members who have given significant volunteer service to the Society and contributed to the field of radiation oncology in the areas of research, education, patient care, or leadership. Active, International and Emeritus members are nominated for fellowship by current ASTRO Fellows and supported by leaders in the field. ASTRO is proud to announce the 2022 Class of ASTRO Fellows:

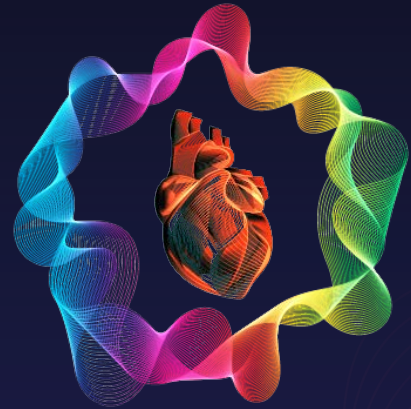
- **Mark K. Buyyounouski**, MD, MS, Stanford University, Stanford, California
- **Daniel T. Chang**, MD, University of Michigan, Ann Arbor, Michigan
- **Bhishamjit S. Chera**, MD, Medical University of South Carolina, Charleston, South Carolina
- **Deborah E. Citrin**, MD, National Cancer Institute, Bethesda, Maryland
- **Thomas J. Dilling**, MD, MS, Moffitt Cancer Center, Tampa, Florida
- **Suzanne B. Evans**, MD, MPH, Yale University School of Medicine, New Haven, Connecticut
- **Steven J. Frank**, MD, The University of Texas MD Anderson Cancer Center, Houston
- **Alan C. Hartford**, MD, PhD, Geisel School of Medicine, Dartmouth Health, Lebanon, New Hampshire
- **Karen E. Hoffman**, MD, MHSc, MPH, The University of Texas MD Anderson Cancer Center, Houston
- **Randall J. Kimple**, MD, PhD, University of Wisconsin, Madison, Wisconsin
- **Bridget F. Koontz**, MD, GenesisCare US, Greenville, North Carolina
- **Alexander Lin**, MD, University of Pennsylvania, Philadelphia
- **Douglas Martin**, MD, The Ohio State University Wexner Medical Center, Columbus, Ohio
- **Charles Mayo**, PhD, University of Michigan, Ann Arbor, Michigan
- **Michael T. Milano**, MD, PhD, University of Rochester, Rochester, New York
- **Eduardo G. Moros**, PhD, Moffitt Cancer Center, Tampa
- **Firas Mourtada**, PhD, Sidney Kimmel Medical College at Thomas Jefferson University, Philadelphia
- **Paul Nguyen**, MD, Dana-Farber Cancer Institute, Boston
- **Peter F. Orio III**, DO, MS, Dana-Farber Brigham Cancer Center, Boston
- **William F. Regine**, MD, University of Maryland School of Medicine, Baltimore
- **Peter J. Rossi**, MD, Calaway Young Cancer Center at Valley View Hospital, Glenwood Springs, Colorado
- **Scott Soltys**, MD, Stanford University, Stanford, California
- **Roy Tishler**, MD, PhD, Dana-Farber Cancer Institute, Boston
- **Minh-Tam Truong**, MD, MBBS, Boston University School of Medicine, Boston
- **Richard W. C. Tsang**, MD, Princess Margaret Cancer Centre, Toronto, Ontario, Canada
- **Jonathan Tward**, MD, PhD, Huntsman Cancer Institute at the University of Utah, Halladay, Utah
- **Fen Xia**, MD, PhD, University of Arkansas for Medical Sciences, Little Rock, Arkansas 

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AI & EI: CARING FOR THE PATIENT  
IN A WIRELESS WORLD

**ASTRO**  
ANNUAL 2022 MEETING



ASTRO 64TH ANNUAL MEETING

OCTOBER 23-26, 2022

Participate: **San Antonio** | **Virtual** | **onDemand**

## MEETING HIGHLIGHTS:

- An outstanding lineup of speakers and topics including two dynamic keynote speakers—Ruha Benjamin, PhD, and Richard Deming, MD, presenting on the themes outlined in *Race After Technology* and optimal living in survivorship.
- The top science in the field with practice-changing research.
- A Presidential Symposium focused on “AI and EI: Caring for the Patient in a Wireless World.”
- The “Cancer Breakthroughs” session highlighting the year’s top oncology research from a variety of disciplines.
- Six Science Highlight sessions held live for in-person and virtual meeting registrants. Additional Science Highlights sessions available onDemand.
- Live SA-CME sessions are now included as part of in-person and live virtual meeting registration options.
- Master Classes, Storytelling and poster sessions are back to supplement your learning.
- An Exhibit Hall featuring the latest products and services and a Networking Reception from 4:00 p.m. to 5:00 p.m. on Monday, October 24.
- Numerous networking opportunities, social connections with colleagues and more to help you connect and recharge.



Ruha Benjamin, PhD



Richard Deming, MD

**NEW  
FOR  
2022**

In-person and  
Virtual Full Conference  
registrations include  
the onDemand meeting  
at no additional charge!

The excitement is building for ASTRO 22 -  
We can't wait to see you in San Antonio this fall!

It's not too late to register! [astro.org/annualmeeting](https://astro.org/annualmeeting)

Already registered?

Download the MyASTROApp to begin planning your Annual Meeting experience.



## GUIDED BY INNOVATION.

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Castle Biosciences is proud to support the ASTRO 2022 Annual Meeting with innovative approaches to improve care for high-risk squamous cell carcinoma patients.

We look forward to seeing you in San Antonio! Visit us at booth #1996.  
For meeting inquiries, please email [bking@castlebiosciences.com](mailto:bking@castlebiosciences.com)

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