

ASTRO *news*

FALL 2019

YOUR GUIDE TO THE
2019 ASTRO ANNUAL MEETING



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Chicago

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Cyclotron	Energy (MeV)	Isotopes Produced
Best 15	15	^{18}F , $^{99\text{m}}\text{Tc}$, ^{11}C , ^{13}N , ^{15}O , ^{64}Cu , ^{67}Ga , ^{124}I , ^{103}Pd
Best 20u/25	20, 25–15	Best 15 + ^{123}I , ^{111}In , $^{68}\text{Ge}/^{68}\text{Ga}$
Best 30u (Upgradeable)	30	Best 15 + ^{123}I , ^{111}In , $^{68}\text{Ge}/^{68}\text{Ga}$
Best 35	35–15	Greater production of Best 15, 20u/25 isotopes plus ^{201}Tl , $^{81}\text{Rb}/^{81}\text{Kr}$
Best 70	70–35	$^{82}\text{Sr}/^{82}\text{Rb}$, ^{123}I , ^{67}Cu , ^{81}Kr + research



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ion Rapid Cycling Medical Synchrotron (iRCMS)

* Best iRCMS is under development and not available for sale currently.



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MCCORMICK PLACE WEST



MCCORMICK PLACE WEST

2301 S. Indiana Ave.
Chicago, IL, 60616

Join us in Chicago!

ASTRO's 61st Annual Meeting will be held at McCormick Place West, September 15-18, 2019. Join your colleagues and get ready to Innovate, Collaborate: Transform.

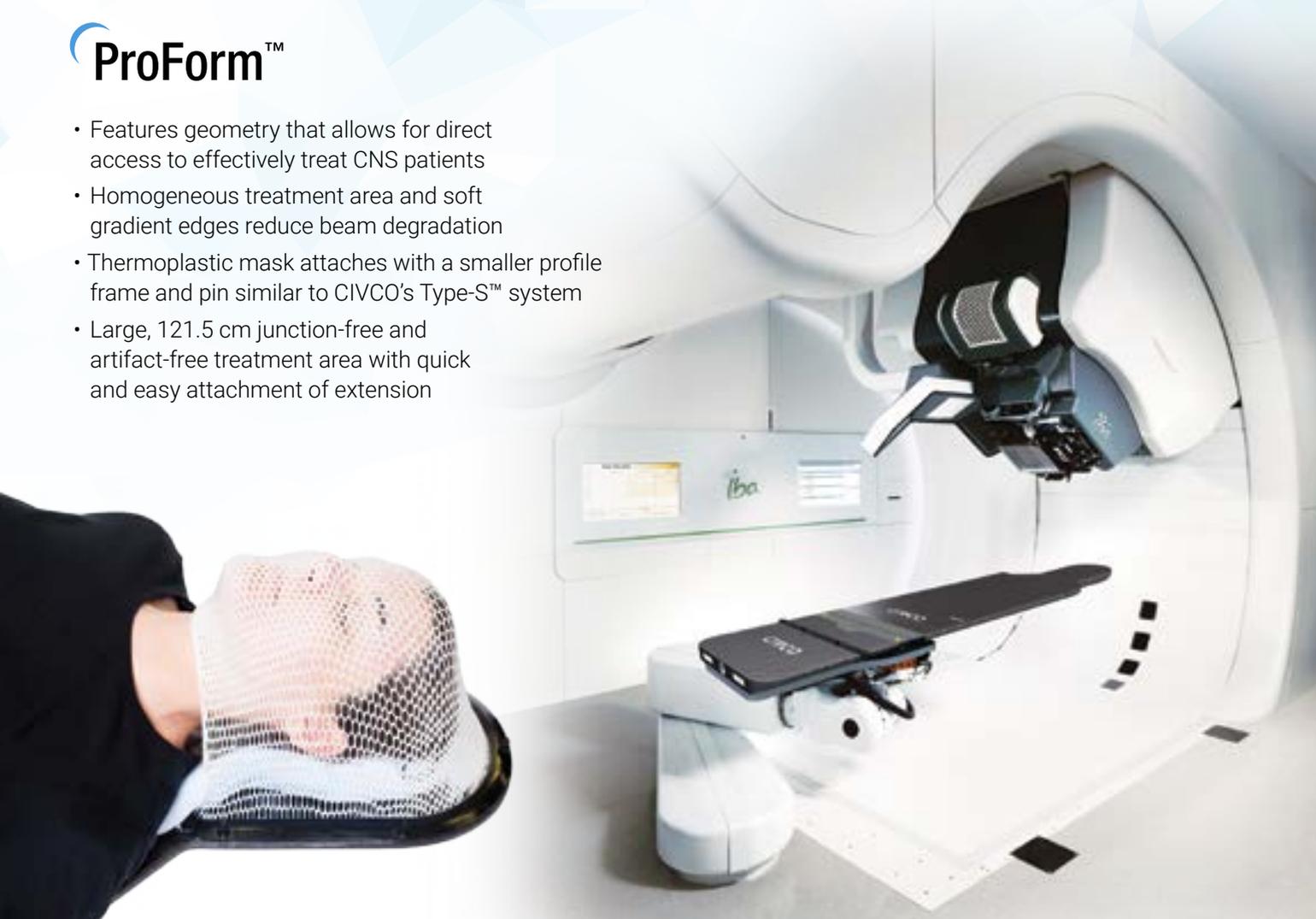
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ASTRO news

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THE ASTRO ANNUAL MEETING, THE WORLD'S PREMIER RADIATION ONCOLOGY CONFERENCE, is around the corner. This year it's going to be held in Chicago September 15-18. Get ready to mix learning about the latest research with some of the best city experiences in the world, be it music, food, culture or architecture (read the excellent story on the Windy City's attractions by the Hartsells on page 12). Incidentally, TripAdvisor listed the Chicago Architecture River Cruise as the number one pick in its 2019 Travelers' Choice award for Top 10 Experiences in the United States. It also came in second on the global list, behind the Vatican, Sistine Chapel and St. Peter's Basilica tour. I must admit to an element of bias though, hailing from Chicago myself.

ASTRO President Ted DeWeese, MD, FASTRO, is planning a riveting meeting this year. The idea is to shake things up — a lot. The Presidential Symposium “Curing Metastatic Disease with Radiotherapy: Myth or Reality?” will include three level-setting talks and an Oxford-style debate followed by expanded learning breakout sessions.

WELCOME TO CHICAGO

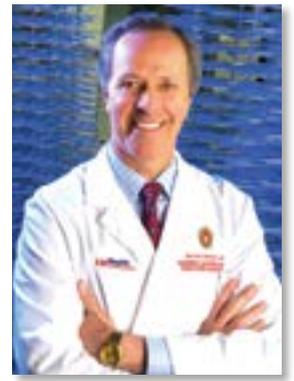
This year's theme is Innovate, Collaborate: Transform. To that end, ASTRO has revamped the Annual Meeting with an eye to engagement through evolution, even revolution. Chicago is the perfect venue for this in many ways. It's here where imagination has been yoked to technological progress and where creativity has had free rein. For instance, architects built one of the first skyscrapers in Chicago, forever changing the way we live in the big cities. That passion for discovery is what we are seeking to kindle at the Annual Meeting.

Monday will see the start of two outstanding Keynote sessions with a dual Keynote featuring Suchi Saria, PhD, Johns Hopkins Whiting School of Engineering, and David Magnus, PhD, Stanford University, discussing clinical applications of artificial intelligence (AI) and the “ethical challenges” of AI and deep learning. On Tuesday, we will hear from Vanessa Kerry, MD, the co-founder and CEO of Seed Global Health, who will discuss how team-based approaches and educating local caregivers can advance care in under-resourced and low-income nations.

Don't miss the Awards Ceremony (page 37 starts the list of the winners) where we honor the best in our field. Congratulations to all the awardees, especially the 2019 Gold Medalists: Walter J. Curran, MD, Silvia C. Formenti, MD, FASTRO, and Thomas R. Mackie, PhD.

As Dr. DeWeese says in his President's Update (see page 6), ASTRO has received a record number of high-quality scientific abstracts, which bodes well for the scientific sessions. Back by popular demand, the Practical Radiation Oncology Program, designed to meet the needs and schedule of private practice physicians, will be offered as a two-day workshop. A new Theranostics Workshop to learn about the exciting new generation of radiopharmaceuticals emerging in clinical practice is also on Saturday afternoon. And, before you book your return tickets, make sure you catch the new Cancer Breakthroughs session on the closing day, September 18. This new session will provide an overview of the most important breakthroughs in cancer research from throughout the year.

Finally, a big thank you to Paul Harari, MD, FASTRO, for his leadership as ASTRO chairman of the Board, and for highlighting and promoting diversity across our ranks (page 5 for Chair's Update). The Annual Meeting offers a chance for us to get to grips with the most critical advances in the field, which can only make us better equipped in the quest to improve patient care. It's an opportunity to refresh and renew our commitment to this most challenging, but also most satisfying, of medical fields. It's going to be a splendid opportunity to learn, network, relax and have fun in this wonderful city. I look forward to seeing you here! 



SWING WIDE OPEN THE DOORS OF LEADERSHIP!

SERVING THE LAST TWO YEARS AS ASTRO PRESIDENT AND CHAIRMAN OF THE BOARD OF DIRECTORS has afforded me a wonderful opportunity to help shape new strategies and future visions for the field of radiation oncology. Leadership positions provide a unique opportunity to hear from a wide array of stakeholders within and beyond the societies we serve. In this column, I wish to comment on a singular aspect of medical leadership, namely, promoting diversity. **I believe we ensure the best future for our societies when we encourage and promote diversity at every level.**

Is it significant that the incoming presidents of our major cancer treatment and research societies including ASTRO, ASCO and AACR are female? You bet it is! Flash back 10 years and this would be unfathomable. More broadly, across the continuum of academic medicine, we see an overwhelming dominance of male leaders serving as medical school deans, department chairs, society presidents, board chairs and so forth. Women currently comprise only 16% of those holding major medical leadership roles. However, students entering U.S. medical schools and PhD training programs look dramatically different. Women now comprise 51.6% of first-year medical students and 57% of entering PhD students. Gender is but one significant

aspect of diversity, and medical schools are just beginning to make progress enrolling more racially and ethnically diverse classes, with a rise in African American males in 2018. Nevertheless, we still have a long way to go.

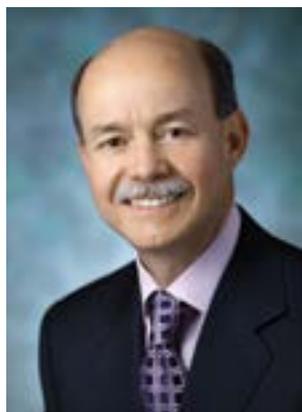
Identifying and supporting women and underrepresented minorities to achieve leadership roles can provide invaluable advances for the house of medicine. Women play critically important roles in leadership, research, education and mentorship that broaden the overall perspective and atmosphere of the workplace. Multiple studies identify diverse groups as providing a collective intelligence resulting in “smarter” and “more effective” problem solving. **We simply need more women and underrepresented minorities in medical leadership roles.** Two of my children are medical students: one male, one female. I am cautiously optimistic they will see equivalent opportunities should they develop interest in medical leadership during their careers. Historically, however, this equivalence opportunity has not been realized at the level of senior leadership.

Many of our finest leaders are excellent listeners who encourage the expression of “other voices and perspectives” rather than allow a vocal few to dominate discussion and policy. Leaders can also hear the voices of students as they express hopes and dreams

for the future. **As we steadily increase the diversity of our incoming trainees, it is high time we increase the diversity of our senior leadership corps.** Accomplishing this important objective will facilitate healthy and progressive work environments that best serve our patients and bring forth innovative and lasting solutions for the future.

Cancer is indiscriminate in affecting men and women from all ethnic and socioeconomic backgrounds. **There are many potential advantages for our health care workforce to “look more like” the patients we serve.** This can enhance communication and trust for a frightening cancer diagnosis and the complex treatment regimens that follow. Harmonizing our workforce with the populations we serve can be particularly valuable for underrepresented minorities whose health care wishes and cultural traditions are frequently misunderstood, sometimes contributing to suboptimal care.

Take time to recognize and act on opportunities to promote diversity across our ranks. You will spark a profound benefit to the broad diversity of patients and programs we are committed to serve. 



INNOVATE, COLLABORATE: TRANSFORM... THE 2019 ASTRO ANNUAL MEETING

IN THE WORLD OF CANCER

MEDICINE, who is better trained and oriented than radiation oncologists to develop and translate innovative research, to serve as natural conveners of other oncology specialties to collaborate as a multidisciplinary team, all with the goal of transforming science and improving care for patients? I would strongly argue that no other oncologic specialty is as well positioned to do these things than us!

Indeed, the ability for our specialty to lead in these domains has never been greater. The exciting work combining radiation with immunotherapy, the integration of artificial intelligence into physics planning and clinical decision making, the groundbreaking science in our understanding of DNA damage response to radiation, and innovative clinical trials studying the benefit and value of hypofractionation are but a few of the key areas in which we excel.

When one considers the unbelievably talented and motivated trainees radiation oncology has attracted over the past 15 years or so, our field's ability to lead in multidisciplinary clinical care and research in the United States and beyond is greater than ever.

But, if we are to be highly successful, we cannot do these things in isolation. To make a meaningful impact in the lives of patients, we must also work closely with colleagues outside our field. Hence the theme of our 61st Annual Meeting in Chicago: *Innovate, Collaborate: Transform.*

The Annual Meeting Planning Committee has been working very hard on developing an exciting and educational forum. Aably lead by Lisa Kachnic, MD, FASTRO, and Andrea Ng, MD, MPH, the team has crafted a meeting that mixes both tried and true elements, like the Plenary and Clinical Trials sessions, along with a structure that will make the meeting a bit more manageable with shorter sessions allowing more time for networking (and even morning yoga, for those so inclined!). I am also happy to report that Felix Feng, MD, has helped me reenvision the Presidential Symposium in a way that seeks to be more engaging

and interactive using both a new didactic format for the first portion of the course, where we all meet as one large group, followed by multiple breakout sessions that will allow for more interaction and conversation between members and experts on the topic: "Curing Metastatic Disease with Radiotherapy: Myth or Reality?"

We have also received a record number of scientific abstracts this year, and I am happy to report that the quality of the research is quite high — all the scientific sessions promise to be excellent, along with the expanded digital poster viewing Q&A sessions. If this were not enough, please be on the lookout for the new healthy food options that promise to taste good, keep us all alert, and be more heart (and waistline!) friendly.

I think you can tell that I am very excited to invite you all to Chicago to share with me in this newly evolved meeting format, to learn about the best ways to manage our patients, to network with innovative, collaborative colleagues, and to enjoy the company of both old and new friends. I look forward to seeing you all in Chicago where together we can continue in our pursuit to transform the lives of patients around the world. 

SOCIETY NEWS

ASTRO ELECTS NEW LEADERSHIP

FOUR NEW OFFICERS HAVE BEEN ELECTED TO serve on ASTRO's Board of Directors. The new officers' terms will begin on Tuesday, September 17, at the Annual Business Meeting at ASTRO's 61st Annual Meeting in Chicago. For more information, visit www.astro.org/vote. The new Board of Directors members are:



PRESIDENT-ELECT

Laura Dawson, MD, FASTRO
*Princess Margaret Cancer Centre,
Toronto, Ontario*



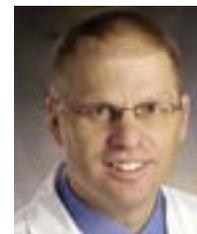
SECRETARY/ TREASURER-ELECT

Neha Vapiwala, MD
*University of Pennsylvania,
Philadelphia*



HEALTH POLICY COUNCIL VICE-CHAIR

Constantine Mantz, MD
*21st Century Oncology,
Ft. Myers, Florida*



SCIENCE COUNCIL VICE-CHAIR

Brian Marples, PhD
*University of Miami,
Miami, Florida*

In Memoriam

ASTRO has learned that the following member has passed away.
Our thoughts go out to his family and friends.

Martin W. Johnson, MS
Lansing, Michigan

The Radiation Oncology Institute (ROI) graciously accepts gifts in memory of
or in tribute to individuals. For more information, visit www.roinstitute.org.

ANNUAL REPORT | 2018



TREASURER'S REPORT

ASTRO successfully accomplished several initiatives in 2018 — among them, the Annual Meeting in San Antonio, which celebrated 60 years of advancing radiation oncology and where ASTRO became one of the first medical society conferences to debut all-digital posters. Also new at the 2018 Annual Meeting, the Practical Radiation Oncology (PRO) program, held on Saturday and Sunday, allowed doctors unable to leave their practice for a full week the opportunity to attend the premier scientific radiation oncology event. More exciting changes are coming to the 2019 Annual Meeting in Chicago, including a redesigned format for the Presidential Symposium, a new focus on wellness and an inspirational closing session. I hope to see all of you there.

Like the new innovations we're bringing to the Annual Meeting, ASTRO continues to invest and expand programs for our members. These include research grant opportunities in collaboration with industry and cancer foundations, and quality programs with the continued education on the Merit-based Incentive Payment System (MIPS) for ongoing support of payment compliance and with the Quality Clinical Data Registry (QCDR). Other program advancements include advocating for high-quality patient care; creating radiation oncology resources for coding, reimbursement, coverage and practice management; and managing the Practice Accreditation Program (APEX). The Red Journal impact factor increased to 6.203 and *PRO* journal earned its first impact factor in June 2019, an impressive 2.794. ASTRO maintains its leadership in education, research and advocacy for radiation oncology and promoting excellence in patient care.

ASTRO engaged Raffa, P.C., an independent auditor, to conduct an audit of ASTRO's 2018 financial statements. 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 to ASTRO's Board of Directors at the June 2019 meeting.

PROFIT AND LOSS STATEMENT

ASTRO generated \$20.2 million from operating income. Meeting registration revenue (including Annual Meeting at \$9.2 million) represents 55% or \$11 million; membership dues and journal royalty and subscription revenue represents 35% or \$7.12 million of the total 2018 operating revenue. With operating expenses of \$21 million, ASTRO posted an \$870,000 loss from operating activities. After accounting for a \$2.6 million investment loss due to poor equity markets during the fourth quarter of 2018, ASTRO's loss grew to \$3.7 million for the year.

BALANCE SHEET

As of December 2018, ASTRO's net worth was \$27.3 million, comprising \$38.6 million in assets and \$11.2 million in liabilities. As of December 31, 2018, the long-term portfolio was valued at \$33.2 million, representing 86% of ASTRO's assets. At \$3.8 million, deferred revenue represents the largest component of liabilities, as ASTRO members and exhibitors continue to take advantage of the organization's prepaid membership dues and exhibit booth payment options.

ASTRO continues to make the necessary adjustments to achieve the goals of the strategic plan by investing in critical programs that serve our members and cancer patients worldwide and position ASTRO as the industry leader in radiation oncology.

Geraldine Jacobson, MD, MBA, MPH, FASTRO

ASTRO Secretary/Treasurer

For the full
2018 financial
report, go to
[www.astro.org/
astronews](http://www.astro.org/astronews)

2019 ANNUAL MEETING HIGHLIGHTS AND KEY SESSIONS



ASTRO'S 61ST ANNUAL MEETING WILL BE HELD SEPTEMBER 15-18 AT MCCORMICK PLACE WEST IN CHICAGO. The theme of the meeting, Innovate, Collaborate: Transform, speaks not only to the educational theme of the meeting but also to the three-year transformation underway to ensure ASTRO's Annual Meeting evolves to keep pace with newer learning styles and a changing audience.

From the start on Sunday, attendees will experience more opportunities for networking between sessions and enjoy additional seating layouts to facilitate collaboration and engagement, both in and out of sessions. This year, there will also be a larger focus on wellness to recharge mind and body, including morning yoga sessions and healthier food options.

ASTRO's Annual Meeting is the premier scientific radiation oncology event of the year, and the Annual Meeting Scientific Committee has compiled an outstanding program this year. Attendees will enjoy the popular all-digital posters with the addition of more viewing stations to provide even more opportunities for attendees to view the nearly 1,900 posters. In addition, there will be more than 45 scientific sessions, including the Plenary and Clinical Trials sessions presenting the highest impact studies as well as more than 60

educational sessions ranging in topics from artificial intelligence and informatics to pediatrics to hematologic malignancies.

Additional highlights and new additions to the program taking place in 2019 include the following:

AN ALL-NEW, REENGINEERED PRESIDENTIAL SYMPOSIUM

On Sunday morning, the Presidential Symposium will unveil a new format that is both provocative and collaborative. These interactive sessions will challenge assumptions about radiation therapy and its role in the future of cancer care. Attendees will be asked to "pick a side" on the symposium's overall theme, "Curing Metastatic Disease with Radiotherapy: Myth or Reality?" The opening session will showcase three level-setting talks featuring Ashani Weeraratna, PhD, speaking on contemporary principles of metastatic cancer dissemination, Karyn Goodman, MD, discussing the role of local therapies in the management of patients with metastatic disease and Charles Drake, MD, PhD, speaking on the abscopal effect. Robert Timmerman, MD, FASTRO, with Asal Rahimi, MD, and Anthony Zietman, MD, FASTRO, with Sophia Kamram, MD, will then debate the symposium topic with the audience

Continued on following page

voting before and after in support of their “side.” Then, for the first time ever, attendees will break into facilitated expanded learning sessions where everyone — from academic physicians to community physicians, physicists, biologists, academic and industry researchers, and more — will join the conversation and discuss subtopics related to the theme. Following those sessions, attendees can continue the conversation at tables arranged throughout the Exhibit Hall, with informal discussions based on topics crowdsourced prior to the meeting. Share your ideas for discussion topics by joining the PS: Innovate Together community on ROhub.astro.org.

KEYNOTES

This year’s Keynote speakers will continue the meeting theme of Innovate, Collaborate: Transform, by sharing their expertise with attendees on the topics of artificial intelligence (AI), deep learning and global health.

Monday’s dual Keynote on artificial intelligence and deep learning features Suchi Saria, PhD, assistant professor at Johns Hopkins Whiting School of Engineering, and David Magnus, PhD, professor of Medicine and Biomedical Ethics and professor of Pediatrics and Medicine at Stanford University. Dr. Saria will discuss the clinical uses of AI and deep learning, including her exciting clinical applications already in use, after which Dr. Magnus will remind us of the “dark side” of this exciting new area in science, diving into the issues of ethics and other areas of concern.

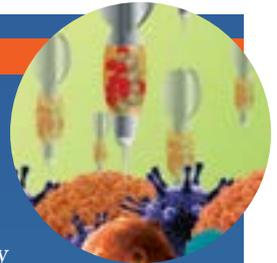
Tuesday’s Keynote on global health and under-resourced and low-income nations features Vanessa Kerry, MD, MSC, co-founder and CEO of Seed Global Health. Her organization has helped train more than 16,000 health professionals in five countries in Africa.

Dr. Kerry will discuss moving cancer therapy forward through team-based approaches with an ever-increasing attention to the world’s needs.

NEW IN 2019!

Theranostics Workshop

Saturday’s Theranostics Workshop is a new, half-day training designed to teach clinical radiation oncologists everything they need to know to expand their practice into radiopharmaceutical therapy (RPT). Radiation oncologists are experts regarding the benefits and risks associated with various cancer therapeutic options and are perfectly positioned to help patients make the best choice for their specific circumstances, including the use of RPTs. This workshop will provide a refresher on relevant physics, pharmacology and radiobiology, as well as offer logistical and practical training in clinical use of radiopharmaceuticals.



Cancer Breakthroughs Session

You will not want to miss this new session! Wednesday morning’s Cancer Breakthroughs: Takeaways from the Major Oncology Meetings of 2019 session will provide a review of the most important breakthroughs in cancer research from different meetings held throughout the year, including ASCO, AACR, AAPM and RRS. Check the Conference Planner for speakers and more details as they are finalized.



KEYNOTE SPEAKERS



SUCHI SARIA, PHD
Assistant Professor,
Johns Hopkins University



DAVID MAGNUS, PHD
Professor,
Stanford University



VANESSA KERRY, MD
CEO,
Seed Global Health

“Artificial Intelligence and Deep Learning in Medicine”

“Global Health in Oncology”

BACK BY POPULAR DEMAND

Thanks to the success of last year's program, the Practical Radiation Oncology (PRO) program is back! This two-day program will be held on Saturday, September 14, and Sunday, September 15. The PRO program is specifically designed for community practice radiation oncologists unable to leave their practice for a week to attend the premier scientific radiation oncology event. See additional details on page 21.

Also returning to the program are the Science Highlight sessions. These short, 30-minute sessions will be held on Monday, Tuesday and Wednesday mornings. Expert discussants will provide an overview of the top-rated abstracts being presented throughout the meeting. The sessions are organized in the following tracks: Breast, CNS, GI, GU, Hematologic and Palliative Care.

Additional Sessions of Interest:**JOINT SESSIONS:**

- **Joint Session 01** — Joint RUSSCO-ASTRO-SPRO Session on Palliative Radiation Therapy in Incurable Patients: Keeping Symptoms Down and Hope High
- **Joint Session 02** — Novel Paradigms in the Management of Gliomas: Challenging Case-based ASTRO-SNO Joint Session
- **Joint Session 03** — Everything They Can Do in Lymphoma - You Can Do Better with the Integration of Radiotherapy: New Data in Support of RT Across the Lymphomas Disease Spectrum
- **Joint Session 04** — MOC v 3.0: Significant Changes on the Way for 2020

IMMUNOTHERAPY SESSIONS:

- **Workshop 06** — Immunotherapies in Combination with Radiation Therapy: Optimal Study Design
Of note, many scientific sessions will touch on immunotherapy but are not labeled as immunotherapy but rather by disease site track.

PRECISION ONCOLOGY:

- **Panel 04** — Radiopharmaceuticals in Precision Medicine
- **Panel 15** — Gynecological Oncology in the Era of Precision Medicine
- **Panel 19** — Bridging Precision Oncology and Population Health Research to Inform Clinical Relevance and Personalized Patient Care

OTHER SESSIONS OF INTEREST:

- **EDU 08** — Practical Big Data Workshops – Key Recommendations and Findings for Bringing Big Data into Clinical Practice
- **EDU 09** — Break Through the Taboo: Discussing Intimacy and Sexuality with Female Cancer Patients
- **EDU 11** — 2020 Radiation Oncology Coding and Coverage Update
- **EDU 12** — Proton Therapy Refresher
- **EDU 18** — How to Incorporate Commercial Genomic Tests into Your Management of Prostate Cancer: Evidence and Limitations
- **EDU 20** — Is There a Standard of Practice in Oncologic Care for Transgender Patients?
- **EDU 24** — Introduction to Big Data Analytics and Artificial Intelligence
- **Panel 01** — Integration of Advanced Practice Providers in Radiation Oncology
- **Panel 07** — FLASH Therapy with Protons – Dosimetry, Safety and Experimental Evidence
- **Panel 21** — Emotional Intelligence Leadership Strategies in Practice Management and Patient Care

Find more details on these sessions and the full program online at www.astro.org/conferenceplanner. The Conference Planner will be fully integrated with the MyASTROapp (the official meeting app), scheduled to launch by late August, so you will have access to your schedule on either platform. 

View the 2019 Annual Meeting Highlights video at www.astro.org/annualmeeting





Welcome to Chicago

BY SIOBHAN HARTSELL, CMD, AND BILL HARTSELL, MD, FASTRO

With its iconic skyline and miles of lakefront,

Chicago is especially beautiful in fall when the weather begins to cool down, with average temperatures between 72 and 78 degrees Fahrenheit (22 to 25 degrees Celsius), and the crowds of tourists start to head home. Before or after the Annual Meeting — or once your day is over — we hope you'll take some time to explore some of the treasures Chicago has to offer. From world-class museums and river recreation to a vast selection of authentic ethnic eateries, Chicago has it all. Here are some suggestions for what to do while you are here:



TAKE AN ARCHITECTURE CRUISE DOWN THE CHICAGO RIVER

A 90-minute river cruise is the best way to learn about Chicago's history and architecture (the skyscraper was born here, after all). The award-winning Chicago Architecture Foundation Center's river cruise aboard the *First Lady* is world famous and often voted the number one thing to do here. The cruise is led by expertly trained volunteer docents who tell the stories behind more than 50 buildings along the river. Find out how Chicago grew from a small settlement into one of the world's largest cities in fewer than 100 years. This cruise boat offers indoor and outdoor seating and a bar and snack bar on board.



RIVERWALK

After the cruise, explore Chicago's Riverwalk, a 1.25 mile walk from Lake Michigan to the river confluence. Chicagoans have always embraced the 26 miles of lakefront, but the Chicago Riverwalk, just finished in 2016, is becoming a new favorite. Designed as a series of six "rooms" between the bridges on the south bank from Lake Shore Drive to Lake Street, each has a different personality and nickname: Marina, Cove, River Theater, Jetty, Water Plaza and Riverbank — the confluence of the three branches of the Chicago River. It's free and open from 6:00 a.m. to 11:00 p.m.



ART ON theMART

If you are down by the Riverwalk at sundown, don't miss the world's largest digital art projection on theMART, formally the Merchandise Mart, which opened in 1930 when it was the largest building in the world. Using 34 projectors to illuminate the 2.5 acre river-facing façade of this iconic building, which is the equivalent in length of two football fields, the two-hour visionary public art show starts 15 minutes after sundown, times for which are listed on the website, themart.com. We'll share an insider tip: While watching the lights, tune in to artonthemart.com to hear exclusive, accompanying audio.



MILLENNIUM PARK

The number one question tourists ask is, "Where is 'the Bean'?" Cloud Gate, a public sculpture by Indian-born British artist Sir Anish Kapoor, is known by its nickname, the Bean. Kapoor said his inspiration was a drop of mercury, but when it was unveiled, Chicagoans thought "bean." In Millennium Park, walk around the Bean, see Frank Gehry-designed Pritzker Pavilion and watch the kids playing in the Crown Fountain, designed by Jaume Plensa. The fountain comprises two 50-foot tall glass towers that display the faces of 1,000 ordinary Chicagoans, one at a time every four to five minutes.



THEATER

From 20th century British history to a wildly-popular 1776 American event, the Chicago theater scene offers the best of each, and plenty in between. Theater lovers have a rich and varied selection of stage plays during ASTRO's Annual Meeting: the Chicago Shakespeare Theater stages "The King's Speech"; Cadillac Palace Theatre offers "The Band's Visit"; CIBC Theatre has "Hamilton"; Goodman Theater stages "Bernhardt/Hamlet"; and Steppenwolf Theater offers "The Great Leap."

Continued on following page



WORLD CLASS MUSEUMS

Take your pick: The Art Institute of Chicago, Field Museum of Natural History, Shedd Aquarium, Museum of Science and Industry, Adler Planetarium and Museum of Contemporary Art Chicago. Among the offerings: The iconic “American Gothic” and Edward Hopper’s “Nighthawks” are on exhibit at The Art Institute, and at the Field Museum, meet the largest dinosaur that ever lived.



BASEBALL

For baseball fans, a visit to Wrigley Field is a must! The 2016 World Series champion Cubs will be in town for a three-game series against the Pittsburgh Pirates September 13-15 and the Cincinnati Reds September 16-18. Built in 1914, Wrigley Field is the second-oldest major league ballpark in the United States and is also known as Cubs Park. The White Sox, whose home field was originally named Comiskey Park but is now known as Guaranteed Rate Field, will be playing out of town September 13-22.



MUSIC

Chicago’s music scene is known worldwide for its jazz and blues clubs. A few of the many good ones are Green Mill Cocktail Lounge for authentic 30’s and 40’s jazz, Andy’s Jazz Club for jazz and jam, Buddy Guy’s Legends for classic blues and House of Blues for live concerts and their world-famous Gospel Brunch on Sundays. For anyone with a denim jacket covered in patches hiding in their closet, Riot Fest is celebrating its 15th anniversary with a three-day music festival, September 13-15, in Douglas Park.



CHICAGO HOT DOG

When ordering a Chicago hot dog, there is one ingredient that people over age 17 are not allowed to ask for on their dog: ketchup! A typical Chicago hot dog comprises an all-beef frankfurter, yellow mustard, onions, relish, tomato, sport peppers (tangy, medium-heat pickled peppers — a Chicago favorite), a pickle spear and a dash of celery salt on a Rosen’s bun. Two good places to get an authentic Chicago hot dog are Max’s Take Out and Portillo’s.



EXERCISE

If you feel like exercising after sitting in meetings all day, rent a Divvy bike (Chicago’s app-based bikeshare program) and cycle along the paved 18.5 mile Chicago Lakefront Trail. The path has been separated into bike and pedestrian trails, perfect for walking or jogging.



CHICAGO PIZZA

Chicago pizza is second to none. One of the most famous styles — classic deep dish — is a hearty, pan-style pizza stuffed with cheese and toppings baked under a layer of tomato sauce so they don't burn during the longer baking time. Most Chicagoans will tell you that they generally eat deep dish only when company is in town. Try this classic Chicago-style pie at one of the more popular pizza places: Lou Malnati's, Pizano's, Giordano's and Pequod's.



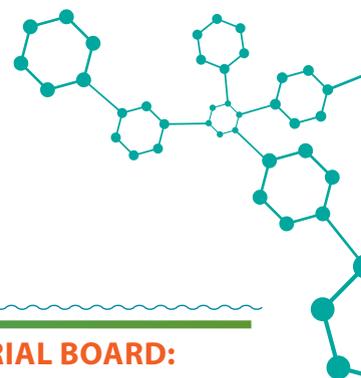
AUTHENTIC NEIGHBORHOOD FOOD

Chicago is a city of neighborhoods, and these neighborhoods have some fine, authentic restaurants: Fulton Market, Chinatown, Little Italy, Pilsen and River North. Here are some of our favorites: For sushi try Roca Akor on North Clark Street; enjoy hand-cut steaks at Chicago Chop; for the local Chicago Cut Steak, try Mastro's; for Italian, Trattoria 10 in the downtown Loop Theater District, Tufanos Vernon Park Tap (cash only), Sienna Tavern in River North and Rosebud on Rush; and for Mexican, enjoy the festive atmosphere of Mercadito or Rick Bayless's Frontera Grill.



ROOFTOP BARS

Enjoy the view from one of these buzz-worthy locales: Cindy's, a stylish rooftop bar/restaurant at the Chicago Athletic Association Hotel; the posh Aba rooftop patio in historic Fulton Market; DrumBar on the 18th floor of the Raffaello Hotel; Cerise Rooftop atop Virgin Hotel; and LH Rooftop for sweeping city view from the top of London House Hotel.



A FEW RECOMMENDED RESTAURANTS FROM THE ASTRONEWS EDITORIAL BOARD:

#1 Rooh, *Modern Indian cuisine*
736 W. Randolph Street

#4 Eataly, *Italian cuisine*
43 E. Ohio Street

#6 Friends Sushi, *Japanese sushi and sake bar*
710 N. Rush Street

#2 RPM, *Italian cuisine*
52 W. Illinois Street

#5 Nacional 27,
Latin American cuisine
325 W. Huron Street

#7 Lawry's The Prime Rib,
Steakhouse
100 E. Ontario Street

#3 The Gage, *Rustic fare and libations*
24 S. Michigan Avenue

This is only a small list of suggestions for things to do in Chicago. Enjoy!

Bill and Siobhan Hartsell have been married for 35 years. They met at the University of Oklahoma where Bill was a medical student and Siobhan a radiation therapy student. Bill will tell you that he fell immediately in love with Siobhan, the native Chicagoan. Siobhan will tell you that she gave him a chance because he was wearing a White Sox cap. When not enjoying the Chicago sites with his family, Bill Hartsell, MD, FASTRO, serves on the ASTRO Board of Directors and is a practicing radiation oncologist at Northwestern Medicine.



SCIENTIFIC SESSIONS AT THE 61ST ANNUAL MEETING

BY LISA A. KACHNIC, MD, FASTRO, ANNUAL MEETING SCIENTIFIC COMMITTEE CHAIR

THIS YEAR'S 61ST ANNUAL MEETING IN CHICAGO WILL OFFER ATTENDEES A WIDE VARIETY OF SCIENTIFIC SESSIONS with cutting-edge clinical and research-based presentations. The sessions are offered in several formats ranging from interactive oral presentations, digital posters and new mini-oral presentations.

Returning this year are the Science Highlights sessions that summarize the top-scoring abstracts by disease site, presented by leaders in the field. There are also multiple workshops, panels and educational sessions, but to see the latest science, you'll want to attend the scientific sessions. These will feature nearly 500 oral abstract presentations and 1,900 digital posters covering all the major disease sites, as well as physics, biology, palliative care and digital innovations. We'll also have late-breaking abstracts that will be collected just before the meeting to enhance the highest-level Plenary and Clinical Trials sessions and a special late-breaking oral scientific session.

Here are some of the top-scoring abstract presentations so far:

- An abstract from Samuel Ryu, MD, of Stony Brook University entitled "Radiosurgery Compared to External Beam Radiotherapy for Localized Spine Metastasis: Phase III Results of NRG Oncology/RTOG 0631."
- An abstract from Julia White, MD, of The Ohio State University entitled "Cosmetic Outcome from Post Lumpectomy Whole Breast Irradiation (WBI) Versus Partial Breast Irradiation (PBI) on the NRG Oncology/NSABP B39-RTOG 0413 Phase III Clinical Trial."

- An abstract from Hans T. Eich, MD, PhD, of University Hospital Muenster entitled "PET-guided Treatment of Early-stage Favorable Hodgkin Lymphoma: Final Results of the International, Randomized Phase III Trial HD16 by the GHSG."
- An abstract from Stephanie de Boer, MD, of Leiden University Medical Center in the Netherlands entitled "Patterns of Recurrence and Survival in the Randomized Portec-3 Trial of Chemoradiotherapy for High-risk Endometrial Cancer."
- An abstract from Kevin Liu, MD, of Brigham and Women's Hospital, Dana-Farber Cancer Institute entitled "Role of Radiotherapy Dose-escalation for High-risk Neuroblastoma with Post-surgical Primary Site Gross Residual Disease: A Report from the COG ANBL0532 Study."

Please note that abstracts are embargoed until the date and time of presentation.

We encourage you to build your schedule in advance using our robust Conference Planner in order to get the maximum benefit of attending the meeting. Find it online at www.astro.org/conferenceplanner. The conference planner will sync with our mobile MyASTROapp, so be sure to download it! See page 30 for more info.

Looking forward to seeing you all in Chicago! 



LIVE SA-CME OFFERINGS

ASTRO WILL BE OFFERING LIVE SELF-ASSESSMENT CME (SA-CME) with 10 specially selected sessions at this year's Annual Meeting to help physician and physicist attendees meet the requirements of the American Board of Radiology's (ABR) Part II Maintenance of Certification (MOC) program. Participants will access their Live SA-CME assessment through the ASTRO Academy (academy.astro.org) to receive immediate feedback, peer comparison and their SA-CME certificates. Live SA-CME sessions are available for purchase during your registration or on-site for \$50 each.

Various Education, Panel and Joint Sessions have been selected including, but not limited to the following:

- **Joint Session 01:** Joint RUSSCO-ASTRO-SPRO Session on Palliative Radiation Therapy in Incurable Patients: Keeping Symptoms Down and Hope High
- **Panel 10:** Radiation Therapy for Basal and Squamous Cell Cancers of the Skin: An ASTRO Evidence-based Clinical Practice Guidelines
- **Workshop 06:** Immunotherapies in Combination with Radiation Therapy: Optimal Study Design
- **Panel 15:** Gynecological Oncology in the Era of Precision Medicine
- **EDU 25:** Minimizing Toxicity through Multidisciplinary Care of Complex Head and Neck Cancer Cases

PRACTICING RADIATION ONCOLOGY (PRO)

The Practicing Radiation Oncology (PRO) program will include SA-CME credits for Clinical Cases in Gastrointestinal Oncology on Saturday, September 14, at 4:00 p.m. This SA-CME session is only available to those who register for the PRO program.

eCONTOURING

Additionally, two *e*Contouring sessions will include SA-CME credit as part of the *e*Contouring registration fees.

- ***e*Contouring 02:** Challenging Cases in *e*Contouring in Head and Neck
- ***e*Contouring 03:** *e*Contouring for Oligometastatic SBRT

The Live SA-CME sessions will also be recorded and converted to online SA-CME. The online SA-CME activity will be part of ASTRO's Academy and will be made available after the conference. Online SA-CME activities allow ASTRO members who are unable to attend the meeting the opportunity to obtain SA-CME credits that are required for the ABR's MOC program. Visit www.academy.astro.org to see available courses.

For more information about Annual Meeting SA-CME sessions, please visit www.astro.org/am19livesacme or contact Education@ASTRO.org. 



ASTRO'S "QUESTION OF THE YEAR" IS BACK BY POPULAR DEMAND

FOR THE PAST TWO YEARS, ASTRO HAS BEEN REQUESTING FEEDBACK FROM ATTENDEES through the "Question of Year" platform. At the 2018 ASTRO Annual Meeting in San Antonio, attendees were asked "What is the One Big Discovery that needs to be translated to the clinic RIGHT NOW?" We received 677 responses that covered a broad range of topics, such as a need for biomarkers for early recurrence detection, application of artificial intelligence and improved imaging. Consistent with 2017, immunotherapy or combinations of immunotherapy and radiotherapy were referenced the most among the responders with 127 mentions in 2018. A close second was related to the treatment of oligometastatic disease, followed by treatments using stereotactic body radiotherapy. Hypofractionation treatments, particularly for prostate cancer, were also among the popular themes, as well as the increasing role of liquid biopsies. We plan to publish a short manuscript describing these results to highlight these important topics in the field of radiation oncology research.

The remarkable feedback from the previous years has ignited ASTRO to ask once again: **What is the One Big Discovery that needs to be translated to the clinic RIGHT NOW?** Attendees can answer this question through the Annual Meeting app, MyASTROapp. This information supports ASTRO with setting our research priorities. Every response is important and helps us target our research-centered activities directly to the responses from our community. Thank you for participating! 🇺🇸

Want to join the conversation early? Tag us on Twitter @ASTRO_org and use the hashtag #ASTRO19



NEW INDUSTRY-ACADEMIC RESEARCHER ENGAGEMENT EVENT AT THE ANNUAL MEETING

HOW DO WE, IN RADIATION ONCOLOGY, CREATE THE FUTURE? Collaboration between industry and academic researchers is a key element. Long gone are the days of a lonely researcher working in isolation. Today, partnerships and collaborations between academicians, community clinicians, government and industry partners provide the secret sauce for success. This year, ASTRO is helping facilitate such interactions through a new research engagement event at the Annual Meeting.

This special academic-industry researcher engagement session will take place on Tuesday, September 17, from 3:45 p.m. to 4:45 p.m. in the theater space in the Exhibit Hall and is open to all. This session will provide time for basic and translational researchers to interact. In addition to highlighting the key elements of the ASTRO-RSNA Research Workshop on Oligometastatic Disease, which was held in June 2019, this session will also provide time to debate the latest in radiation oncology research and to network with colleagues. We encourage all researchers to attend! 🇺🇸



New This Year!

RADIOPHARMACEUTICAL PROGRAMS AT THE ASTRO ANNUAL MEETING

BY ANA PONCE KIESS, MD, PHD, ASTRO RPT WORK GROUP AND PROMOTING SCIENCE COMMITTEE

AT THE UPCOMING 2019 ASTRO ANNUAL MEETING, special programs on radiopharmaceutical therapies include a new Theranostics Workshop, for which registration is required, and a Sunday panel session on radiopharmaceuticals in precision medicine. These programs provide opportunities to learn about the exciting, new generation of radiopharmaceuticals emerging in clinical practice and clinical research.

The half-day Theranostics Workshop on Saturday, September 14, from 1:00 p.m. to 6:00 p.m., is designed to teach clinical radiation oncologists everything they need to know to expand their practice into radiopharmaceutical therapy (RPT). Multiple new RPTs have recently been FDA approved, including Radium-223 for bone metastases of castrate-resistant prostate cancer, Lu-177 DOTATATE for neuroendocrine carcinomas, and I-131 MIBG for malignant pheochromocytoma and paraganglioma. Many others are emerging for treatment of prostate cancer and other cancers, such as Lu-177 PSMA-targeted agents. Radiation oncologists are experts regarding the benefits and risks associated with various cancer therapeutic options and are perfectly positioned to counsel patients regarding RPTs and to deliver RPTs, but many lack specific and updated training and, therefore, underutilize them.

The Sunday special panel session on radiopharmaceuticals in precision medicine will be held from 4:45 p.m. to 6:15 p.m. Findings in radiobiology and radiochemistry have brought new-age radiopharmaceuticals to the front edge of clinical research. The National Cancer Institute has leveraged partnerships between its Cancer Therapy Evaluation Program and its Radiation Research Program to identify practice-changing discoveries in radiopharmaceutical medicine that pull together radiation oncology and nuclear medicine investigators to design novel radiopharmaceutical phase I and II monotherapy or combination trials. This session will discuss a modern approach to the clinical development of radiopharmaceuticals in the era of personalized medicine. It will give learners an opportunity to increase their knowledge of modern radiopharmaceutical therapy, to strategize on how to incorporate radiopharmaceuticals into clinical practice, and to leverage expertise in radiation oncology and nuclear medicine for a strategic vision of radiopharmaceutical clinical trials. 

Connect with attendees.



Tweet
#ASTRO19

THE NEW THERANOSTICS WORKSHOP WILL INCLUDE:

- “Refreshers” on relevant physics, pharmacology and radiobiology.
- Logistical and practical training in clinical use of radiopharmaceuticals.
- Specific breakout sessions on Ra-223, Lu-177 DOTATATE, Lu-177 PSMA agents, I-131 MIBG and Y-90 Microspheres.
- Important infrastructure, workflow and financial considerations.

ARRO UPDATE

Annual ARRO Seminar to Provide Professional Development Advice and Highlight Current Issues Affecting Residents through Interactive Sessions

BY ASHLEY ALBERT, MD, ARRO EXECUTIVE COMMITTEE COMMUNICATIONS CHAIR, ON BEHALF OF THE ARRO EXECUTIVE COMMITTEE

THE ASSOCIATION OF RESIDENTS IN RADIATION ONCOLOGY (ARRO) Executive Committee is looking forward to the ARRO Annual Seminar, which will take place on Saturday, September 14, from 10:00 a.m. to 5:00 p.m., at ASTRO's 61st Annual Meeting in Chicago. This year's program was developed to specifically address issues that are most important to current members-in-training. In addition, multiple aspects of resident professional development will be addressed through a variety of interactive panels and sessions.

The day will begin with presentations from our three Global Health Scholars about their work with radiation therapy and cancer care abroad. This will be followed by our first resident wellness presentation from Andrew Huang, MD, a PGY-5 resident at the University of Wisconsin. He will share his program's experience about how developing a culture of camaraderie led to both increased resident satisfaction and measurable resident productivity. Kyle Russo, MD, from the Ochsner Medical Center, will then discuss personal finance literacy in a way that is relevant to current members-in-training.

We will then welcome a panel of radiation oncologists who work for companies including Varian and GRAIL Inc. to discuss their paths toward non-traditional careers. Following this, a group of clinical trialists will speak about what they have learned from their own experiences with clinical trial development.

During the lunch hour, residents will have the opportunity to attend small, breakout mentoring sessions with either academic leaders or private practice radiation oncologists. The Keynote address will be given by Karen Winkfield, MD, from Wake Forest Baptist Health Medical Center. She will be speaking about the personal experiences that shaped her career path.



ARRO EXECUTIVE COMMITTEE MEMBERS

A favorite annual seminar session, moderated by Lisa A. Kachnic, MD, FASTRO, will allow residents to ask recent graduates questions about the job interview process. This year's panel will include the following early-career physicians:

- Clayton Smith, MD, PhD, Ochsner Medical Center, New Orleans
- Lindsay Puckett, MD, Medical College of Wisconsin, Milwaukee
- Simon Brown, MD, University Radiologists, Southern Illinois University, Springfield, Ill.
- Scott Braman, MD, University of Toronto, Toronto

Following this, Rachel Jimenez, MD, associate program director of Harvard Radiation Oncology Residency Program, will speak on resident wellness and burnout.

We will then devote a section of the program to questions regarding the job market. An overview of current data will be presented followed by a panel discussion of questions submitted directly by residents. We are excited to welcome the following panelists who represent a number of stakeholder organizations or have insight regarding specific relevant legal issues:

- Trevor Royce, MD, Assistant Professor, University of North Carolina at Chapel Hill School of Medicine, Chapel Hill, N.C.
- Benjamin Falit, MD, JD, Pacific Cancer Institute, Wailuku, Hawaii
- W. Robert Lee, MD, MEd, MS, FASTRO, Professor, Duke University Medical Center, Durham, N.C.; Residency Review Committee (RRC), Radiation Oncology; American College of Graduate Medical Education (ACGME)
- Neha Vapiwala, MD, Associate Professor and Vice Chair of Education, Hospital of the University of Pennsylvania, Philadelphia; Association of Directors of Radiation Oncology Programs (ADROP), Past Chair; RRC; ACGME
- Michael Steinberg, MD, FASTRO, Professor and Chair, University of California Los Angeles, Los Angeles; Society of Chairs of Academic Radiation Oncology Programs (SCAROP), Member

We hope this session will result in a collaborative discussion that addresses residents' concerns regarding the expansion of residency programs as well as the job market. Following the seminar, we highly encourage residents and medical students to attend the annual ARRO reception at The Fremont starting at 6:00 p.m.

Other ARRO-sponsored events at the ASTRO Annual Meeting include the ARRO Annual Luncheon on Sunday, September 15, from 12:15 p.m. to 1:15 p.m. Additionally, the "Meet the Professor" reception will take place on September 15 from 4:45 p.m. to 5:45 p.m. This session will begin with a presentation by Anthony D'Amico, MD, PhD, who will share his thoughts on balancing one's personal and professional lives. Residents will then have an opportunity to meet informally with various faculty. Lastly, the ARRO Poster Walks will be held on Monday, September 16, from 12:15 p.m. to 1:30 p.m., and will allow residents to discuss abstracts with site-specific experts.

Registration for these events is required, so don't forget to sign up! We hope you can join us for all the exciting events for residents at ASTRO's Annual Meeting this year! 

PRACTICAL RADIATION ONCOLOGY (PRO) PROGRAM RETURNS TO ASTRO 2019

BACK BY POPULAR DEMAND, THIS SPECIAL PROGRAM, designed to meet the needs and schedules of private practice physicians, will be offered as a two-day workshop on Saturday, September 14, and Sunday, September 15. Program content is specifically curated with the community practice radiation oncologist in mind and includes disease site reviews, interactive case-based discussions, a coding update and a scientific overview.

Highlights of the 2019 program include:

- Practical reviews of the latest treatment options for breast, head and neck, prostate, lung, gynecologic, gastrointestinal and palliative care.
- A case-based discussion on radiosurgery for brain and spine metastases.
- A science review session presenting the latest practice-changing research that may impact future treatment.
- A socio-economic review, including a discussion on the radiation oncology Alternative Payment Model.
- The opportunity to earn 12.25 *AMA PRA Category 1 Credits™* and an extra four hours if you attend other Annual Meeting sessions on Sunday afternoon.
- Live SA-CME credit available for the Saturday gastrointestinal session.
- A networking reception on Saturday night.
- The option to attend regular Annual Meeting sessions on Sunday afternoon, including the Clinical Trials session, and visit the Exhibit Hall.

Register by August 15 for discounted advance rates. Registered full conference attendees can add the PRO Program to their existing registration for an additional fee.



The PRO Program is interactive in a patient case discussion format and includes the latest evidence, audience surveys and panel discussions designed to impact patient care. The weekend format is ideal, as busy practitioners can return to the weekday clinic after this compact but comprehensive program.

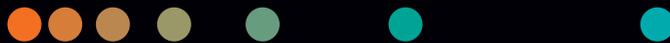
— Tom Boike, MD, MMM



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Stop by the Innovation Hub for an exciting opportunity to discuss timely issues facing ASTRO journals and scientific publishing at large! Editors of all three ASTRO journals will be available to share their perspectives on a wide range of topics. Look for the “Editor Roundtables” sign in the Innovation Hub seating area; all sessions last one hour and are not ticketed.

SUNDAY, SEPTEMBER 15

- 1:00 p.m.** *Ideal characteristics of Red Journal article types*
Sue Yom, MD, PhD, MAS
- 4:00 p.m.** *How to respond to revision requests*
Sue Yom, MD, PhD, MAS

MONDAY, SEPTEMBER 16

- 10:00 a.m.** *Getting involved with ASTRO journals: Training, reviewing and other day-to-day operations*
Lisa Braverman, MA, Kevin Jewett and Dawit Tegbaru
- 11:00 a.m.** *How to review a scientific paper*
W. Robert Lee, MD, MEd, MS, FASTRO
- 12:00 p.m.** *The evolving world of scientific publishing: Open access, predatory journals and more*
Anthony Zietman, MD, FASTRO
- 4:00 p.m.** *Data discoverability for reproducible science: The good, the bad and the ugly*
Robert Miller, MD, MBA, FASTRO, Andre Dekker, PhD, Isabel L. Jackson, PhD, and Dawit Tegbaru

TUESDAY, SEPTEMBER 17

- 11:45 a.m.** *What to do when you receive a transfer recommendation*
Robert Miller, MD, MBA, FASTRO
- 2:30 p.m.** *Gender and diversity in academic research and publishing: Mentoring the next generation*
Isabel L. Jackson, PhD, and Sue Yom, MD, PhD, MAS

QUESTIONS?

Contact Lisa Braverman at lisa.braverman@astro.org.

Welcome to a new era in oncology

Intelligent Cancer Care

It's been said that the next wave of progress in oncology will come from an increased ability to harness the power of technology—collecting and analyzing data to enable better, faster decision-making in clinical care and business processes.

That next wave is here. We call it **Intelligent Cancer Care™**.

Learn more at [varian.com/intelligent](https://www.varian.com/intelligent)
and at **ASTRO 2019 Booth #1405**

10TH YEAR IN SUPPORT OF RESEARCH

Hit the trail for the 10th annual Run for the Future to Benefit the Radiation Oncology Institute

THE 10TH ANNUAL RUN FOR THE FUTURE TO BENEFIT THE ROI will be held during the 2019 ASTRO Annual Meeting on Monday, September 16, at 6:44 a.m. Central time. Participants will start the race at the Chicago Fallen Firefighter and Paramedic Memorial and run or walk along the Lakefront Trail, a picturesque path by Lake Michigan. While enjoying the run, you will be helping to support ROI research to improve outcomes for patients by providing solutions for some of radiation oncology's most pressing and practical needs.

The registration fees and sponsorships for the race go directly to the ROI, as race host Radiation Business Solutions (RBS) covers all costs of the event. "Ten years ago, at our inaugural run, we had fewer than 100 runners. Today, we have 350 plus joining us to run or walk every Monday morning at the ASTRO Annual Meeting. I am grateful to all those who support the ROI through this annual, joyous — or torturous — run," says Dan Moore, CEO of RBS. "Our 'streakers,' those who have had a streak of participating in the race five or more times, are Fernando Barral, Laura Dawson, Thomas Delaney, Chris Hallemeier, Matt McCurdy, Masahiko Oguchi, Louis Potters, Sukhveer Singh, Justin Turpin, Bogdan Valcu, Nicky Wilson and Kai Yan Wong. For our 10th anniversary celebration, we will be handing out special jackets and \$150 running shoe gift cards to our streakers. See what you have to look forward to for our 20th anniversary? I look forward to seeing everyone again."

In addition to registration and sponsorships, contributions are encouraged and participants are urged to get involved by raising money for the ROI. The person or team that raises the most money to support radiation oncology research will have their name on a banner at the finish line.

This year, the ROI has awarded more than \$200,000 in grants to four outstanding teams of researchers working to individualize radiation therapy by improving patient experiences and outcomes. These award winners were selected from the ROI's largest and most competitive field of applicants who proposed projects to personalize radiation therapy to each patient's unique characteristics. The enthusiastic response to the call for proposals shows the ROI's continued commitment to funding research that is responsive to the current needs of the field.

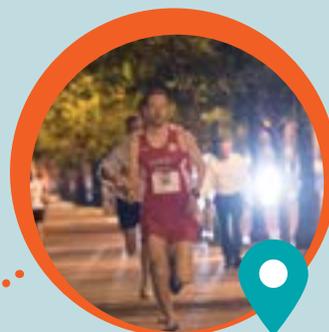
"We appreciate RBS's generous support of the ROI for the past 10 years through the annual 5K Run. The event just keeps growing and gets better every year. The funds raised through the race support our practice-changing and life-saving research in radiation oncology. While the participants are having fun and competing with other teams and individuals, they are also making a difference in the future care of cancer patients," says ROI President Deborah A. Kuban, MD, FASTRO. "I invite all of the 5K race participants to visit the ROI booth [#808] to learn more about the ROI and meet the researchers they are supporting."

To register for the 5k, visit www.roi5k.com. Race registration will also be available on-site on Sunday, September 15, from 10:00 a.m. to 5:00 p.m., at the RBS booth (#4232) in the Innovation and Solution Showcase. 

A Look Back in Time



2010



2013



2018

From the waterfront in San Diego in 2010 to the lakeside in Chicago in 2019, the race features many scenic routes over the decade.

GENERAL INFORMATION

MCCORMICK PLACE WEST

2301 S. Indiana Avenue
Chicago, IL 60616

www.mccormickplace.com

All activities take place at McCormick Place West unless otherwise stated. All information is correct as of July 11, 2019, and is subject to change.

ATTENDEE REGISTRATION

Registration A, Outside Hall F1, Level 3

Attendee registration hours:

Saturday, September 14	7:30 a.m. – 5:00 p.m.
Sunday, September 15	6:00 a.m. – 5:00 p.m.
Monday, September 16	7:00 a.m. – 6:00 p.m.
Tuesday, September 17	7:00 a.m. – 5:00 p.m.
Wednesday, September 18	7:00 a.m. – 2:00 p.m.

EXHIBITOR REGISTRATION

Registration A, Outside Hall F1, Level 3

Exhibitor registration hours:

Thursday, September 12	8:00 a.m. – 5:00 p.m.
Friday, September 13	8:00 a.m. – 5:00 p.m.
Saturday, September 14	7:30 a.m. – 5:00 p.m.
Sunday, September 15	6:00 a.m. – 5:00 p.m.
Monday, September 16	6:30 a.m. – 5:00 p.m.
Tuesday, September 17	7:00 a.m. – 5:00 p.m.

AFFILIATED MEETINGS

43rd AMERICAN SOCIETY OF RADIOLOGIC TECHNOLOGISTS (ASRT) 2019 RADIATION THERAPY CONFERENCE (RTC)

September 15 – 17, 2019 | McCormick Place, South Building

The 43rd American Society of Radiologic Technologists (ASRT) Radiation Therapy Conference (RTC) will take place at the McCormick Place, South Building. ASTRO-registered attendees may attend RTC sessions by paying a reduced registration fee of \$200. Proof of ASTRO Annual Meeting registration (registration confirmation or badge) is required to receive this reduced rate. If you have not registered to attend the ASRT conference and would like to do so, visit www.asrt.org or register on-site at the McCormick Place, South Building.

36th SOCIETY FOR RADIATION ONCOLOGY ADMINISTRATORS (SROA) ANNUAL MEETING

September 15 – 18, 2019 | Hilton Chicago

The 36th Society for Radiation Oncology Administrators (SROA) Annual Meeting will take place at the Hilton Chicago. ASTRO-registered attendees may attend the SROA general session by paying a reduced registration fee of \$250. Proof of ASTRO Annual Meeting registration (registration confirmation or badge) is required to receive this reduced rate. If you have not registered to attend the SROA conference and would like to do so, visit www.sroa.org or register on-site at the Hilton Chicago.



ABSTRACTS AND EMBARGO POLICY

All abstracts to be presented at ASTRO's 61st Annual Meeting are embargoed until the date and time of the 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 61st Annual Meeting, as well as future meetings, and may also 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.



ASTRO *Bistro*

*Innovation and Solution Showcase,
Rear of Hall F1, Level 3*

Once again, the ASTRO Bistro will be offered in the Innovation and Solution Showcase (Exhibit Hall) at this year's Annual Meeting. New for this year, the ASTRO Bistro has been redesigned to offer a variety of different cuisines in a food court style format. In addition, the ASTRO Bistro provides a comfortable place to eat, meet and network with colleagues and exhibitors. Also new this year, tables are available to rent by the day. To reserve a table, contact corporaterelations@astro.org for more information.

HOURS

Sunday, September 15 – Tuesday, September 17
11:00 a.m. – 2:30 p.m.

PRICE

Individual attendee lunch ticket (per person/day): \$23
Individual three-day lunch ticket package*: \$69

*This ticket package provides an ASTRO Bistro lunch ticket for Sunday, Monday and Tuesday.

FOOD CONCEPTS OFFERED

The ASTRO Bistro will offer a variety of different cuisines for attendees to choose from. With your ticket you can choose a lunch entree, drink and dessert. Please note that menus are subject to change at any time. View the food concepts at www.astro.org/astrobistro.

HOW TO PURCHASE LUNCH TICKETS

ASTRO Bistro tickets can be purchased online via the registration website until September 12. After September 12, tickets can be purchased directly from the ASTRO Bistro, if space is available. ASTRO Bistro tickets are valid for lunch only on the day requested and are nonrefundable. Tickets are redeemable only at the ASTRO Bistro and cannot be used at other concessions within McCormick Place. Unredeemed ASTRO Bistro tickets cannot be used on the following day.

CORPORATE AMBASSADORS

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



ASK ASTRO INFORMATION AND MEMBER SERVICES BOOTH

Central Concourse, Level 3

ASTRO representatives are available to answer questions about the Annual Meeting and ASTRO membership and provide information on any of ASTRO's products and services. They can also offer assistance with MyASTROApp, the Conference Planner and setting up a social media account.

Hours of operation:

Saturday, September 14	8:00 a.m. – 5:00 p.m.
Sunday, September 15	6:30 a.m. – 5:00 p.m.
Monday, September 16	7:00 a.m. – 6:00 p.m.
Tuesday, September 17	7:00 a.m. – 5:00 p.m.
Wednesday, September 18	7:00 a.m. – 4:00 p.m.

ASTRO CONNECT BOOTHS

Innovation and Solution Showcase (Exhibit Hall), Halls F1 and F2, Level 3

Each ASTRO Connect location will have a different focus — Breast, Central Nervous System, Head and Neck, Lung and Physics — and offers attendees a comfortable spot for networking with colleagues with similar interests, as well as a place to recharge electronic devices and check email. Top posters will be on display electronically, and experts will be available during designated hours to answer your questions. Visit www.astro.org/conferenceplanner for a schedule of Meet the Experts, taking place in the ASTRO Connect areas.

Breast – Booth 3245

Central Nervous System – Booth 3205

Head and Neck – Booth 1245

Lung – Booth 3224

Physics – Booth 1205 (Sponsored by Galera Therapeutics)

APEX, MIPS AND RO-ILS OFFICE HOURS

Room W471b, Level 4

Do you have questions about ASTRO's quality programs, APEX and RO-ILS, or the Medicare Merit-based Incentive Payment System (MIPS)? ASTRO staff are available for one-on-one or team meetings. Please email apexsupport@astro.org, roils@astro.org, and/or mips@astro.org to schedule an appointment in advance; drop-in inquiries are also welcome.

Hours of operation:

Sunday, September 15	1:00 p.m. – 4:00 p.m.
Monday, September 16	10:00 a.m. – 4:00 p.m.
Tuesday, September 17	10:00 a.m. – 4:00 p.m.

ASTRO ANNUAL MEETING CAREER CENTER

If you are 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

Central Concourse, Level 3

A job board is available in the Central Concourse with an interactive connection to the ASTRO Career Center. Employers who are attending the Annual Meeting can flag job postings online prior to the meeting and connect with job seekers on-site. Job seekers may bring copies of their resumes to post on the on-site job board, in addition to posting it online.

ASTRO 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. On-site, stop by the Ask ASTRO booth located in the Central Concourse to check availability.

ASTRO PAC POD

Central Concourse, Level 3

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 camille.kidd@astro.org or visit www.astro.org/astropac.

Hours of operation:

Sunday, September 15	10:00 a.m. – 5:00 p.m.
Monday, September 16	10:00 a.m. – 5:00 p.m.
Tuesday, September 17	10:00 a.m. – 2:00 p.m.

Connect with attendees.



Tweet
#ASTRO19

BUSINESS CENTER

West Building, Level 2

A FedEx Office location is conveniently located on Level 2 in McCormick Place West. Here you can ship via FedEx Ground or Express, fax or print presentations and signage. This location also has self-service computers and copiers. To contact the business center, please call 312-949-2100.

Hours of operation:

Saturday, September 14	8:30 a.m. – 4:00 p.m.
Sunday, September 15	8:30 a.m. – 4:00 p.m.
Monday, September 16	8:30 a.m. – 4:00 p.m.
Tuesday, September 17	8:30 a.m. – 6:30 p.m.
Wednesday, September 18	8:30 a.m. – 12:00 p.m.

Connect with attendees.



Tweet
#ASTRO19

BUSINESS MEETING AND LUNCHEON

Room W183, Level 1

Tuesday, September 17 11:30 a.m. – 1:00 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.



Innovation and Solution Showcase – Booth 808

Visit the ROI booth to learn how you can make a difference in significant practice-changing radiation oncology research.

Hours of operation:

Sunday, September 15	10:00 a.m. – 5:00 p.m.
Monday, September 16	10:00 a.m. – 5:00 p.m.
Tuesday, September 17	10:00 a.m. – 5:00 p.m.

MyASTROApp

YOUR ANNUAL MEETING RESOURCE

MyASTROApp is back with even more enhancements! As always, the official meeting app provides you with access to the meeting program and the ability to customize your meeting experience with maps and planners. You can:

- Search sessions by day, track, session type or speaker.
- Search exhibitors by name, booth number or product/service category.
- Check out innovative products in the Product Showcase.
- Locate exhibitors on the interactive floor plan.
- Search and view the full abstracts.
- Access “My Schedule,” your personal Annual Meeting schedule.
- Complete the evaluation for continuing education credits.
- Complete Live SA-CME evaluations.
- View presenter slides.
- Take notes as you listen to presentations.
- Interact with presenters by answering polls and asking questions.

- View faculty and presenter photos and bios, if included by the presenter.
- Connect with colleagues at the meeting with a Find-a-Friend feature.
- Participate in the Survivor Circle Passport Program.
- View meeting information and exhibitor brochures in the Virtual Event Bag.
- Enjoy a more user-friendly and intuitive interface.

MyASTROApp Login Instructions

MyASTROApp is integrated with the Conference Planner, online at www.astro.org/conferenceplanner, so you can start your Annual Meeting planning early. It is available for iOS and Android devices and can be downloaded from your device's app store in late August.

Sponsored in part by Sun Nuclear Corporation.



CE CENTRAL

Center Lobby, Outside Hall F, Level 3

ASTRO and ABR staff members will be on hand to answer questions about continuing education and MOC requirements, including these topics:

- How to complete an evaluation.
- ASTRO's Live SA-CME.
- ASTRO Academy.
- Current MOC participation status.
- MyABR attestation and documentation guidance.
- Online Longitudinal Assessment.
- ASTRO-ABR Gateway for credit transfer.

CE Central computer stations provide access for you to:

- Complete your continuing education and meeting evaluation.
- Print your Certificate of Attendance.
- View or print a session tracking form.
- Search abstracts.
- Search exhibitors.
- Update your "My Schedule" on the Conference Planner.
- Print your boarding pass.

Hours of operation:

Saturday, September 14	8:30 a.m. – 5:00 p.m.
Sunday, September 15	6:30 a.m. – 5:00 p.m.
Monday, September 16	7:00 a.m. – 5:00 p.m.
Tuesday, September 17	7:00 a.m. – 5:00 p.m.
Wednesday, September 18	7:00 a.m. – 4:45 p.m.

CHILDCARE SERVICES

We recognize that it can be difficult to balance parenting and the need for childcare while attending a conference. If you plan to bring your children to Chicago as you attend this medical meeting, ASTRO has a list of local childcare services in Chicago. Visit www.astro.org/childcare for more information.

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.

If you have questions while at the meeting, please stop by the Ask ASTRO booth, located on the Central Concourse of Level 3 of McCormick Place West, and speak with one of our staff.

CHICAGO VISITOR INFORMATION CENTER

West Building, Level 1 adjacent to Room W182 and on Level 3 near the bridge to the South Building

Attendees can stop by the Chicago Visitor Information Center to receive travel assistance and information, as well as maps, guides and brochures.

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 Innovation and Solution Showcase (Exhibit Hall) so that you may request information on products and services offered by the company. Exhibitors may also scan your code to collect your contact information for reporting gifts or payments as required by the Open Payments Program or other state reporting programs. **Note: 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 outside Hall F1 if you would like to change your contact information.**

MOTHER'S LOUNGE

Level 1, Room W182

A dedicated ASTRO Mother's Lounge with private rooms will be available at McCormick Place West for women who need to pump, nurse or have quiet time with their baby. Each room will have a privacy lock on each door, comfortable seating, power outlets and other amenities. Access to the Mother's Lounge is available to women Saturday – Wednesday on a first-come, first-served basis. If you have questions during the meeting, please contact ASTRO staff at 312-949-8702 or stop by the Ask ASTRO booth located on the Central Concourse, Level 3 of McCormick Place West.

MAMAVA LACTATION SUITES

In addition to the Mother's Lounge, McCormick Place has installed three private nursing pods called Mamava Lactation Suites. These pods are located throughout McCormick Place as follows:

- **West Building**, Level 1 near the Main Information Desk on Indiana Avenue
- **North/South Building**, Level 2.5 across from Starbucks
- **Lakeside Center**, Level 2 by the Gift Shop

You must download the Mamava Mobile App at www.mamava.com/mobile-app to unlock the suites.



FACULTY/VIP OFFICE

Room W471a, Level 4

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.
- eContouring learning lab speakers.
- Presidential Symposium speakers.
- Keynote speakers and introducers.
- International symposium speakers.
- 2019 ASTRO Fellows.
- 2019 ASTRO Gold Medalists.

Note: Presenters of abstracts are not classified as faculty and should follow attendee registration instructions.

Hours of operation:

Saturday, September 14	6:30 a.m. – 6:00 p.m.
Sunday, September 15	6:30 a.m. – 6:00 p.m.
Monday, September 16	7:00 a.m. – 6:00 p.m.
Tuesday, September 17	7:00 a.m. – 6:00 p.m.
Wednesday, September 18	7:00 a.m. – 4:00 p.m.

FIRST AID

West Building (near Transportation Center), Level 1

First Aid and Building Emergency: 312-791-6060 or extension 6060 from a house phone

First Aid is located on Level 1 in McCormick Place West near the Transportation Center. In an emergency, please dial 312-791-6060 to contact First Aid or go to ASTRO Registration, located outside of Hall F1, and have a staff person contact security.

2019 ANNUAL MEETING PROMOTIONAL SPONSORS

	<p>Galera Therapeutics Vision RT</p>
	<p>Hitachi Ltd.</p>

As of July 10, 2019



**INNOVATION AND SOLUTION SHOWCASE
(EXHIBIT HALL)**

Exhibit Hall, Halls F1 and F2

Learn more about the latest products in cancer treatment and care in the Innovation and Solution Showcase.

Hours of operation:

Sunday, September 15	10:00 a.m. – 5:00 p.m.
Monday, September 16	10:00 a.m. – 5:00 p.m.
Tuesday, September 17	10:00 a.m. – 5:00 p.m.

LOST AND FOUND

Ask ASTRO Booth, Central Concourse, Level 3

To report a missing item, check if an item has been turned in to security or turn in a lost item, stop by the Ask ASTRO booth located on the Central Concourse.

Hours of operation:

Saturday, September 14	8:00 a.m. – 5:00 p.m.
Sunday, September 15	6:30 a.m. – 5:00 p.m.
Monday, September 16	7:00 a.m. – 6:00 p.m.
Tuesday, September 17	7:00 a.m. – 5:00 p.m.
Wednesday, September 18	7:00 a.m. – 4:00 p.m.

LUGGAGE/COAT CHECK

West Building, Level 1, near the Transportation Center

Luggage and coat check will be available at McCormick Place West near the Transportation Center on Level 1 for \$3 per coat and \$4 per bag.

Hours of operation:

Saturday, September 14	7:30 a.m. – 7:30 p.m.
Sunday, September 15	6:00 a.m. – 6:30 p.m.
Monday, September 16	7:00 a.m. – 6:00 p.m.
Tuesday, September 17	7:00 a.m. – 6:30 p.m.
Wednesday, September 18	7:00 a.m. – 5:00 p.m.

NEWS BRIEFINGS AND PRESS OFFICE

Rooms W474a and W474b, Level 4

Registered media professionals are provided with press materials and access to cover ASTRO’s 61st Annual Meeting. For more information about ASTRO’s press program and policies, email press@astro.org or visit www.astro.org/astro19press.

**RADIATION ONCOLOGY INSTITUTE
(ROI) BOOTH**

Exhibit Hall – Booth 808, Level 3

Visit the Radiation Oncology Institute (ROI) booth to hear about the ROI and its research programs, view the names of its generous donors and learn about the impact of giving to the ROI. Opportunities to meet ROI researchers, members of the ROI Board of Trustees and others who support the ROI will be available at the booth, and you can learn how you can support research that improves outcomes for patients and enhances the radiation oncology field.

Hours of operation:

Sunday, September 15	10:00 a.m. – 5:00 p.m.
Monday, September 16	10:00 a.m. – 5:00 p.m.
Tuesday, September 17	10:00 a.m. – 5:00 p.m.

PARKING

McCormick Place West designates Lot A as the primary parking location. It’s a six-level garage with 2,100 parking spaces located on Martin Luther King Drive, adjacent to the West Building. Covered walkways from Lot A lead directly into McCormick Place, Wintrust Arena, Marriott Marquis and the Hyatt Regency McCormick Place, providing added convenience. The parking rate is \$23 for up to 16 hours and \$36 from 16 to 24 hours. There are no in-and-out privileges. Overnight parking is available in Lot A only. Lost tickets will pay the \$36 overnight fee per day.

Please note that ASTRO does not validate for parking.



POSTERS

POSTER VIEWING Q&A SESSIONS

Innovation Hub, Hall F1, Level 3

Nearly 1,900 electronic posters will be on display in the Innovation Hub located in the Exhibit Hall. Posters will be grouped by disease site, and all poster authors will have the opportunity to provide a brief overview of their poster during a scheduled time in one of four Poster Viewing Q&A Sessions. During Poster Viewing Q&A Sessions, presenters will have five minutes to present their poster, in a timed, fast-paced format overseen by a session moderator.

Presenters are required to stand by their assigned poster station during their scheduled time. Fifteen minutes before the session begins, presenters should be at their designated stations and wait for the moderator to start the session. The duration of each Poster Viewing Q&A Session is 75 minutes.

When not in session, you will have the opportunity to view posters at your leisure at these poster stations.

ALL-DAY POSTER VIEWING

Browse nearly 1,900 digital posters, searchable by key word, presenter, institution or poster number. Visit the poster stations during the following Exhibit Hall hours:

Sunday, September 15	10:00 a.m. – 1:00 p.m. 2:30 p.m. – 5:00 p.m.
Monday, September 16	12:00 p.m. – 5:00 p.m.
Tuesday, September 17	10:00 a.m. – 12:45 p.m. 4:00 p.m. – 5:00 p.m.

Browse posters at any time using the smaller touch screens while sitting in the poster area.

NEW

Additional digital poster stations will be available outside of Hall F2 for attendees to browse all digital posters at any time during the meeting.

POSTER VIEWING Q&A SESSIONS

Poster Viewing Q&A sessions will be held during the following times. 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 or on the official meeting app, MyASTROApp.

Sunday, September 15

Poster Session 1

1:15 p.m. – 2:30 p.m.

Breast, Physics, Hematologic, Lung

Monday, September 16

Poster Session 2

10:45 a.m. – 12:00 p.m.

CNS, Head and Neck, Pediatric,
Digital Health Innovation, Sarcoma/Cutaneous,
Nonmalignant Disease, Patient Safety

Tuesday, September 17

Poster Session 3

1:00 p.m. – 2:15 p.m.

Biology, Physics, Palliative Care, Education/History,
Health Services Research,
Patient Reported Outcomes/Quality of Life/Survivorship

Poster Session 4

2:45 p.m. – 4:00 p.m.

Gastrointestinal, Genitourinary, Nursing, Gynecologic

POSTER PRESENTER CONCIERGE

Innovation Hub, Hall F1, Level 3

Poster Viewing Q&A presenters may check in at the Concierge Desk, located in the Innovation Hub (Exhibit Hall), 24 hours prior to their presentation time. Staff will be available to assist presenters with uploading any last-minute changes and to help presenters find their assigned station.

SCIENTIFIC SESSION DESCRIPTIONS

SCIENCE HIGHLIGHTS

Room W181, Level 1

These sessions will highlight up to five of the highest rated abstracts in six disease site tracks. Experts will highlight clinically applicable information and compare the abstract with similar studies.

Monday, September 16

Science Highlights 1: Gastrointestinal Cancer
8:00 a.m. – 8:30 a.m.

Science Highlights 2: Genitourinary
8:30 a.m. – 9:00 a.m.

Tuesday, September 17

Science Highlights 3: Central Nervous System
8:00 a.m. – 8:30 a.m.

Science Highlights 4: Hematologic Cancers
8:30 a.m. – 9:00 a.m.

Wednesday, September 18

Science Highlights 5: Palliative
8:00 a.m. – 8:30 a.m.

Science Highlights 6: Breast Cancer
8:30 a.m. – 9:00 a.m.

ORAL SCIENTIFIC SESSIONS

There are 45 Oral Scientific sessions, labeled as SS 01 – SS 45. These are 60- or 75-minute sessions where abstract presenters have up to 10 minutes to discuss their study. Oral Scientific sessions are organized by disease site and also include radiation physics, radiation biology, palliative care, patient reported outcomes/quality of life/survivorship and pediatrics. There is a new track this year for digital health innovation and informatics, which will have two oral sessions. The Oral Scientific sessions are scheduled throughout the meeting and run concurrently with the other session types such as the Education and Panel sessions.

MINI-ORAL SCIENTIFIC SESSIONS



New this year, we will offer “mini” oral sessions, labeled as MO 01 – MO 24. These are 60- or 75-minute sessions where abstract presenters have five minutes to present their study. These are organized like the “regular” Oral Scientific sessions, with the exception of the faster pace to allow for more studies to be presented and the addition of a discussant. The Mini-oral Scientific sessions are scheduled throughout the meeting and run concurrently with the other session types such as the Education and Panel sessions.

SMOKING

McCormick Place West is a nonsmoking facility.

SPEAKER READY ROOM

Room W470b, Level 4

Faculty members and abstract presenters should upload their PowerPoint presentations in advance of their sessions through the online Speaker Center. To ensure presentations have been properly uploaded, faculty members and abstract presenters are asked to check in at the Speaker Ready Room to review the information and make any last-minute edits.

All speakers should also save their presentation on a portable device and bring it to the Speaker Ready Room at least 24 hours in advance of their presentation or upon arrival at McCormick Place West.

Hours of operation:

Saturday, September 14	6:30 a.m. – 6:00 p.m.
Sunday, September 15	6:30 a.m. – 6:00 p.m.
Monday, September 16	6:30 a.m. – 6:00 p.m.
Tuesday, September 17	6:30 a.m. – 6:00 p.m.
Wednesday, September 18	6:30 a.m. – 4:00 p.m.

Connect with attendees.



Tweet
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2019 ANNUAL MEETING UNRESTRICTED EDUCATIONAL GRANT SUPPORTERS

Elekta · Novocure

As of
July 10,
2019

TRANSPORTATION

Chicago offers a number of convenient transportation options to help attendees easily get around the city. For more information, visit www.astro.org/travel.

Rental Car Reservations

Avis and Hertz are offering ASTRO attendees special rates on car rentals during the Annual Meeting.

Avis Rent-A-Car

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.

Hertz

To reserve your Hertz rental car, call 1-800-654-2240 or 405-749-4434 or go to www.hertz.com. Be sure to mention the CV ID number 04840016, in order to receive the discounted rate.

To and From the Airport

Chicago O'Hare International Airport (ORD) is approximately 18 miles, or one hour, from McCormick Place West. Midway International Airport (MDW) is approximately 10 miles, or 25 minutes, from McCormick Place West.

Taxi

On average, a one-way taxi ride from Chicago O'Hare International Airport to McCormick Place West is approximately \$40* and from Midway International Airport, approximately \$30*. (*gratuity not included)

Ride Sharing

Chicago has a multitude of rideshare car service options, such as CHICABS, Uber or Lyft.

VIRTUAL MEETING

Extend your learning experience with access to the 2019 ASTRO sessions long after the meeting is over. All full conference attendees receive the Virtual Meeting with their registration at no additional cost. One-day and PRO Program-only registrants may purchase the Virtual Meeting through registration for an additional fee.

The Virtual Meeting includes professionally recorded, streaming content as well as downloadable MP3 and PDF files for each presentation. To access, navigate to www.astro.org/virtualmeetings and log in with your ASTRO credentials. Full conference attendees will have access to the recorded presentations 24 hours after each session.*

**Presentations are included in the Virtual Meeting as approved per faculty.*

WIRELESS INTERNET ACCESS

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

Connect with attendees.



Tweet
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SAVE THE DATE!

THE GLOBAL CLINIC
CANCER CARE WITHOUT BORDERS



OCTOBER 25-28, 2020
MIAMI CONVENTION CENTER
MIAMI, FLORIDA

Save the date for ASTRO's 62nd Annual Meeting in Miami October 25-28, 2020, where attendees will explore the theme, *The Global Clinic: Cancer Care without Borders*.

What's New for ASTRO 2020:

- Innovation Hub Presentation and Demonstration Stage.
- Expanded Wellness Program.
- Shorter and more interactive sessions.
- More informal networking and mentoring opportunities.

► Visit www.astro.org/am2020 to view the video and learn more!



THREE LEADING VISIONARIES IN THE FIELD OF RADIATION ONCOLOGY NAMED 2019 ASTRO GOLD MEDAL RECIPIENTS



WALTER J. CURRAN JR., MD



SILVIA C. FORMENTI, MD, FASTRO



THOMAS R. MACKIE, PHD

ASTRO HAS AWARDED ITS HIGHEST HONOR, THE **ASTRO GOLD MEDAL**, to three leaders in the field of radiation oncology. Congratulations to Walter J. Curran Jr., MD, Silvia C. Formenti, MD, FASTRO, and Thomas R. Mackie, PhD. The ASTRO Gold Medal is the highest honor bestowed on esteemed members of the Society who have made outstanding contributions to the field of radiation oncology.

“The 2019 Gold Medal recipients are truly exceptional visionaries whose contributions have significantly impacted the discipline of radiation oncology,” said ASTRO Board of Directors Chair Paul Harari, MD, FASTRO. “The career work of these three individuals in advancing radiation oncology research, innovation and cancer care has forever changed the landscape of our field.”

This is the award’s 43rd consecutive year of recognizing outstanding members, and the 2019 awardees join an elite class of 87 Gold Medalists selected over the decades from the Society’s more than 10,000 members. The Gold Medals will be awarded on Tuesday, September 17, during ASTRO’s 61st Annual Meeting.

Walter J. Curran Jr., MD, is an internationally known expert in lung cancer and brain tumors and currently serves as executive director at Winship Cancer Institute of Emory University and as a group chairman and principal investigator of NRG Oncology, the largest of the five National Cancer Institute (NCI)-funded clinical trials network groups. He has dedicated his career to the education of future radiation oncologists and to advancing the field of radiation oncology. He

is currently the only radiation oncologist to serve as director of an NCI designated cancer center. “This role is impactful to the field as it educates the broader world,” said Dr. Curran. “Seeing radiation oncologists succeed in these leadership roles has a positive impact on the specialty.”

Dr. Curran is a graduate of the Medical College of Georgia and early in his career held faculty roles at the University of Pennsylvania, while also practicing at Fox Chase Cancer Center in Philadelphia. It was there that he was first introduced to the NCI through the Radiation Therapy Oncology Group (RTOG). He then served as chairman of the Radiation Oncology Department for 13 years at Thomas Jefferson University. At the same time, Dr. Curran became a leader within RTOG and oversaw the tremendous growth and successful renewal of NCI grants. He was instrumental in the merging of RTOG and the Gynecologic Oncology Group and the National Surgical Adjuvant Breast and Bowel Project, now known as NRG Oncology, creating one of the largest and most diverse NCI research network groups.

Perhaps one of his greatest impacts to the field is leading and engaging some of the best and brightest minds in radiation oncology in RTOG and NRG. “Working in groups like these requires a lot of compromise and volunteer effort above and beyond everyone’s day job. But by working together as a group, we’re able to research and change practice in a way none of us can do at our own one institution,” said Dr. Curran.

Looking to the future, Dr. Curran plans to continue his transdisciplinary research, stating “When we bring

Continued on following page

disparate teams of investigators together, what great things can come.”

Dr. Curran attributes many of his successes to the opportunity to work with many great people who share a common passion. “ASTRO has been my core organization throughout my whole career,” said Dr. Curran. “Winning the Gold Medal means an extraordinary amount.”

Silvia C. Formenti, MD, FASTRO, is an internationally renowned physician scientist and trailblazer in radiation and immunotherapy. Dr. Formenti is chair of the Department of Radiation Oncology at Weill Cornell Medical College at Cornell University and radiation oncologist-in-chief at New York Presbyterian Hospital. She has devoted her career to translating novel, preclinical information to the clinic, leading her peers to refer to her as “one of the most creative and productive investigators of the past two decades in how to use radiation therapy for the treatment of women with breast cancer.”

Dr. Formenti graduated from the University of Milan in Italy and began her career as a medical oncologist. She later came to the U.S. for a fellowship and residency at the University of Southern California, Los Angeles. Through her care for patients with brain and lung cancers, Dr. Formenti saw the importance of the radiation component of their treatments, which led to her pursuing a second specialty in radiation oncology. “My patients that I have lost remain very present in my career,” said Dr. Formenti. That impact also fueled her interest in the immune response to cancer. “I have always been interested in what takes life, what are the mechanics and mortality of cancer,” said Dr. Formenti. These questions helped formulate her research — conducted well ahead of its time — in combining radiation therapy and immunotherapy treatments. The concepts and approaches are widely adopted in clinical use today and have led to more than 100 clinical trials.

In addition to her presence in the lab, her leadership has greatly impacted the specialty. Earlier in Dr. Formenti’s career, she served as the first female chair of the Department of Radiation Oncology at NYU School of Medicine — one of just a few female chairs across the country at the time. Her influence and drive continues to be felt throughout the field, from the PhD students she has mentored to the researchers she works beside.

When thinking of the Gold Medal recognition, Dr. Formenti said, “It means a lot because it is also recognition of my team and the work we’ve done together

over the years, both my research and clinical teams. We introduced something that was a little disruptive, not conventional thinking, and it brings satisfaction that our Society is acknowledging this work. It is truly an honor.”

Thomas R. Mackie, PhD, can be categorized under many names: medical physicist, researcher, mentor, entrepreneur, professor, visionary. While he has been all these and more throughout his extensive and impressive career, the one that carried him through his successes, and sometimes admitted failures, is visionary. “I wanted to see my research and my vision actionized into patient care. Some might call that stubborn, we’ll call it visionary,” said Dr. Mackie.

Dr. Mackie began his career as a health physicist in uranium mining in Saskatchewan and always held an interest in radiation science. A family member’s cancer diagnosis and later radiation treatment further spurred his interest in the field. He later moved to the University of Wisconsin, where he spent the majority of his career, and is currently emeritus professor of medical physics and engineering. It is there where he excelled as a remarkable inventor, innovator and entrepreneur.

Driven by necessity and the resolve to turn discovery into clinical application, Dr. Mackie started his first company, Geometrics Corporation, to provide his research groups’ software program to patients. Later known as Pinnacle, this 3-D treatment planning software dominated radiation treatment planning over a span of 20 years. The start of this company coincided with parallel work in TomoTherapy, another company started by Dr. Mackie, which he later sold to Accuray Corporation. There are nearly 750 TomoTherapy treatment units in clinical operation today. His inventions and contributions to the field of radiation oncology have impacted hundreds of thousands of cancer patients worldwide. Over the course of his career, Dr. Mackie has written more than 184 journal articles, with some of the most highly cited papers in the field and holds nearly 50 U.S. patents.

Throughout his many successes and celebrated career, Dr. Mackie is most proud of his students and inventions. “I am proud of the graduate students I have trained — more than 40 PhDs were awarded under my supervision — and the technologies I have brought into the marketplace,” said Dr. Mackie. “Most importantly, I couldn’t have done what I’ve done without the support and work of so many good scientists and smart people around me. This Gold Medal is the highest honor of my career and the greatest honor bestowed on me.” 

MEDICAL ONCOLOGIST COREY J. LANGER, MD Chosen as ASTRO 2019 Honorary Member

COREY J. LANGER, MD, PROFESSOR OF MEDICINE in the Hematology/Oncology Division at the University of Pennsylvania in Philadelphia, where he serves as director of Thoracic Oncology in the Abramson Cancer Center, has been chosen as the 2019 ASTRO Honorary Member. He is slated to receive the award on Tuesday, September 17, at ASTRO's 61st Annual Meeting in Chicago.

This award is the highest honor that ASTRO bestows upon cancer physicians and researchers who do not qualify for Active ASTRO membership — namely, those in radiation oncology, radiobiology or medical physics.

Dr. Langer received his medical degree from Boston University in 1981. His postgraduate training included a fellowship in Hematology/Oncology at the Penn Presbyterian Medical Center and a fellowship in Oncology at AOH/Fox Chase Cancer Center. He served there from 1986 until 2008, leading its Thoracic Oncology Program for the final 14 years of his

tenure before moving in June 2008 to the University of Pennsylvania, where he currently heads the Interdisciplinary Thoracic Oncology Program.

Mitchell Machtay, MD, FASTRO, noted in his nomination of Dr. Langer that he had not met a medical oncologist who is more “passionate about combined modality, curative-intent therapy for locally advanced lung cancer” than Dr. Langer. Dr. Machtay says, “Simply put: There are only a small number of medical oncologists who have had great influence and contributions promoting combined modality therapy; there are a fewer number of medical oncologists who have participated so heartily in the annual ASTRO meetings. And there are no medical oncologists who have provided as much service to the Radiation Therapy Oncology Group/ NRG Oncology Cooperative Group and its prospective, radiation oncology oriented clinical trials as Dr. Langer has.” 

#ASTRO19 Social Champions

Follow our Social Champions on Twitter and use **#ASTRO19** to keep up on what's going on at the Annual Meeting.

⇒ Learn who these Social Champions are and more about social media for **#ASTRO19** at www.astro.org/amsocialchamps.



ANNUAL MEETING COMMUNITY

All registered attendees are automatically added to the 2019 Annual Meeting community.

Network with attendees and presenters ahead of the Meeting, ask questions and get the latest information on ROhub.astro.org.

Tweet Up

Looking to network in real life with folks from your Twitterverse?

Join us for the Tweet Up on **Sunday, September 15**, at **11:45 a.m. – 12:45 p.m.** at the Ask ASTRO booth.

TWENTY-SIX DISTINGUISHED ASTRO MEMBERS AWARDED FELLOW DESIGNATION

ASTRO HAS SELECTED 26 MEMBERS TO RECEIVE THE ASTRO FELLOW (FASTRO) DESIGNATION. The 2019 class of Fellows will be inducted during the Awards Ceremony at ASTRO's 61st Annual Meeting in Chicago.

The Fellows program commenced in 2006 to honor those that have been an Active, International or Emeritus member of ASTRO for at least 15 years, have given an equivalent of 10 years of service to ASTRO and have made significant contributions to the field of radiation oncology in the areas of research, education, patient care or service and leadership.

Candidates for the Fellows program must be nominated by a current ASTRO Fellow, accompanied by three letters of support from ASTRO members. A committee reviews all nominations and presents the candidates to ASTRO's Board of Directors for approval.

The 2019 Fellows are:

- Ron R. Allison, MD, Federal Medical Center, *Butner, North Carolina*
- Felipe A. Calvo, MD, Clinica Universidad de Navarra, *Madrid-Pamplona, Spain*
- Allen M. Chen, MD, University of California, Irvine, School of Medicine, *Orange, California*
- Gregg E. Franklin, MD, PhD, New Mexico Cancer Center, *Albuquerque, New Mexico*
- Joel S. Greenberger, MD, UPMC Hillman Cancer Center, *Pittsburgh*
- Daphne Haas-Kogan, MD, Dana-Farber Cancer Institute/Brigham and Women's Hospital, *Boston*
- Michele Y. Halyard, MD, Mayo Clinic, *Scottsdale, Arizona*
- Kathleen M. Hintenlang, PhD, The Ohio State University, *Columbus, Ohio*
- Vivek S. Kavadi, MD, Texas Oncology, *Sugar Land, Texas*
- Paul J. Keall, PhD, MS, BS, The University of Sydney, *Camperdown, Australia*
- Larry L. Kestin, MD, Michigan Healthcare Professionals, *Farmington Hills, Michigan*
- Deepak Khuntia, MD, Precision Cancer Specialists and Varian Medical Systems, *Palo Alto, California*
- David G. Kirsch, MD, PhD, Duke University Medical Center, *Durham, North Carolina*
- Sunil Krishnan, MD, Mayo Clinic, *Jacksonville, Florida*
- Fei-Fei Liu, MD, Princess Margaret Cancer Centre/ University Health Network, *Toronto*
- Daniel A. Low, PhD, University of California, *Los Angeles*
- Matthew A. Manning, MD, Cone Health, *Greensboro, North Carolina*
- Rinaa S. Punglia, MD, MS, MPH, Dana-Farber Cancer Institute/Brigham and Women's Hospital/Harvard Medical School, *Boston*
- Ramesh Rengan, MD, PhD, University of Washington, *Seattle*
- Ugur Selek, MD, PhD, The University of Texas MD Anderson Radiation Treatment Center at American Hospital, *Istanbul, Turkey*
- Helen A. Shih, MD, MS, MPH, Massachusetts General Hospital, *Boston*
- Benjamin D. Smith, MD, The University of Texas MD Anderson Cancer Center, *Houston*
- Srinivasan Vijayakumar, MD, University of Mississippi Medical Center, *Jackson, Mississippi*
- Akila N. Viswanathan, MD, Johns Hopkins Medicine, *Baltimore*
- Catheryn M. Yashar, MD, University of California San Diego, *La Jolla, California*
- Torunn I. Yock, MD, MCH, Massachusetts General Hospital, *Boston* 



FELLOWS CLASS OF 2018

INDUSTRY SATELLITE SYMPOSIA SCHEDULE

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.

SUNDAY, SEPTEMBER 15, 2019

6:00 p.m. – 6:30 p.m. | Registration
6:30 p.m. – 8:00 p.m. | Symposium

CONSENSUS OR CONTROVERSY? – Radiation and Medical Oncology Investigator Perspectives on the Role of Immune Checkpoint Inhibition in the Management of Patients with Locally Advanced Non-Small Cell Lung Cancer

Venue Location: Hyatt Regency McCormick Place, Regency Ballroom CDE · Dinner will be provided

Accreditation: Research To Practice is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

CME Credits: Research To Practice designates this live activity for a maximum of 1.5 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

To register or for more information, please visit www.researchtopractice.com/Meetings/Chicago/NSCLC2019

This activity is supported by an educational grant from AstraZeneca.

MONDAY, SEPTEMBER 16, 2019

5:45 p.m. – 6:15 p.m. | Registration and Dinner
6:15 p.m. – 7:45 p.m. | Symposium

Readying the Modern Radiation Oncology Practice for Incorporation of a Fourth Modality in Cancer Treatment: Understanding the Science, Evidence, and Clinical Application Across a Range of Solid Malignancies

For meeting information, including date, time, and location, or to register, please visit www.PeerView.com/RadOnc19.

Accreditation: This activity will be planned and implemented in accordance with the accreditation requirements and policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint providership of Medical Learning Institute, Inc. and PVI, PeerView Institute for Medical Education. The Medical Learning Institute, Inc. is accredited by the ACCME to provide continuing medical education for physicians.

CME Credits: The Medical Learning Institute, Inc. designates this live activity for a maximum of 1.5 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

This activity is supported by an independent educational grant from Novocure.

This CME activity is jointly provided by Medical Learning Institute, Inc. and PVI, PeerView Institute for Medical Education.

MONDAY, SEPTEMBER 16, 2019

5:45 p.m. – 6:15 p.m. | Registration and Dinner
6:15 p.m. – 7:45 p.m. | Symposium

NSCLC Tumor Board: Navigating the Evolving Role of Immunotherapy in Multimodal Management of Locally Advanced and Early-Stage Lung Cancer

Venue Location: Hyatt Regency McCormick Place, Regency Ballroom CDE · Dinner will be provided.

Accreditation: This activity will be planned and implemented in accordance with the accreditation requirements and policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint providership of Medical Learning Institute, Inc. and PVI, PeerView Institute for Medical Education. The Medical Learning Institute, Inc. is accredited by the ACCME to provide continuing medical education for physicians.

CME Credits: The Medical Learning Institute, Inc. designates this live activity for a maximum of 1.5 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

To register or for more information, please visit www.PeerView.com/radNSCLC19

This activity is supported by an independent educational grant from AstraZeneca.

This CME/MOC activity is jointly provided by Medical Learning Institute, Inc. and PVI, PeerView Institute for Medical Education.

TUESDAY, SEPTEMBER 17, 2019

6:15 p.m. – 6:45 p.m. | Registration and Dinner
6:45 p.m. – 8:15 p.m. | Symposium

Challenges, Controversies, and Opportunities in the Management of EGFR-Mutant Lung Cancer With Central Nervous System Metastases: Working Together to Improve Patient Outcomes

Venue Location: Hyatt Regency McCormick Place, Regency Ballroom CDE · Dinner will be provided.

Accreditation: This activity will be planned and implemented in accordance with the accreditation requirements and policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint providership of Medical Learning Institute, Inc. and PVI, PeerView Institute for Medical Education. The Medical Learning Institute, Inc. is accredited by the ACCME to provide continuing medical education for physicians.

CME Credits: The Medical Learning Institute, Inc. designates this live activity for a maximum of 1.5 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

To register or for more information, please visit www.PeerView.com/radEGFR19

This activity is supported by an independent educational grant from AstraZeneca.

This CME/MOC activity is jointly provided by Medical Learning Institute, Inc. and PVI, PeerView Institute for Medical Education.

INDUSTRY-EXPERT THEATER SCHEDULE

This activity allows companies to present their noteworthy new products and services through live presentations. Seating is available on a first-come, first-served basis. The Industry-expert Theater content and views expressed therein are those of the companies and not of ASTRO.

Lunch or other food and beverages may be provided by the companies, which may subject you to reporting under the Federal Sunshine Act (the Open Payments Program) or other state laws. Otherwise, food may be available for purchase prior to the start of an event in the ASTRO Bistro and concession area.

SUNDAY, SEPTEMBER 15	
<p>Theater 1, Innovation Hub • 12:15 – 1:15 p.m. <i>Detecting and Localizing Recurrent Prostate Cancer with Axumin® (fluciclovine F 18)</i> Company: Blue Earth Diagnostics</p> <hr/> <p>Contact: Maura Harrigan Phone: 855-298-6461 Email: contact@blueearthDx.com</p>	<p>Theater 2, Innovation Hub • 12:15 – 1:15 p.m. <i>Treating Unresectable Stage III Non-Small Cell Lung Cancer with Curative Intent</i> Company: AstraZeneca</p> <hr/> <p>Contact: Joyce Cao Phone: 408-916-6004 Email: joyce.cao@astrazeneca.com</p>
<p>Theater 1, Innovation Hub • 2:30 p.m. – 3:30 p.m. <i>Title TBD</i> Company: Philips</p> <hr/> <p>Contact: Ann Marie Cerise Phone: 504-913-9662 Email: ann.marie.cerise@philips.com</p>	<p>Theater 2, Innovation Hub • 2:30 p.m. – 3:30 p.m. <i>MR Guided Daily Adaptive SBRT for Prostate Cancer – A Phase 2 Prospective Study and MR Guided SBRT for Pancreas with On-Table Adaptation on MRIdian – MCI Experience</i> Company: ViewRay</p> <hr/> <p>Contact: Bob Capuzelo Phone: 650-252-0934 Email: bcapuzelo@viewray.com</p>
MONDAY, SEPTEMBER 16	
<p>Theater 1, Innovation Hub • 10:15 – 11:15 a.m. <i>Sometimes the best medicine. . . is all of them: Combination therapy with RefleXion Biology-guided radiotherapy</i> Company: RefleXion Medical</p> <hr/> <p>Contact: Jamie Crawford Phone: 678-231-7517 Email: jcrawford@reflexion.com</p>	<p>Theater 2, Innovation Hub • 10:15 – 11:15 a.m. <i>Title TBD</i> Company: AngioDynamics</p> <hr/> <p>Contact: Laura DeVito Phone: 518-795-1873 Email: ldevito@angiodynamics.com</p>
<p>Theater 1, Innovation Hub • 12:15 p.m. – 1:15 p.m. <i>Hydrogel Spacing is Becoming the Gold Standard to Reduce Rectal Toxicity in Prostate Cancer Radiotherapy. Discover why over 50,000 Patients Have Been Treated Worldwide.</i> Company: Boston Scientific</p> <hr/> <p>Contact: Susan Weatherbee Phone: 508-683-4312 Email: susan.weatherbee@bsci.com</p>	<p>Theater 2, Innovation Hub • 12:15 – 1:15 p.m. <i>Dynamic Tracking and Motion Synchronization: Over 15 years of Accuray Leadership</i> Company: Accuray Incorporated</p> <hr/> <p>Contact: Diane Hobaugh Phone: 408-789-4265 Email: dhobaugh@accuray.com</p>
<p>Theater 1, Innovation Hub • 3:30 – 4:30 p.m. <i>SGRT: Making precision radiotherapy a reality for every patient, every fraction</i> Company: Vision RT</p> <hr/> <p>Contact: Rachel Seguin Phone: 703-638-0066 Email: rseguin@visionrt.com</p>	<p>Theater 2, Innovation Hub • 3:30 – 4:30 p.m. <i>Title TBD</i> Company: Nanobiotix</p> <hr/> <p>Contact: Monica Sukhatme Phone: 630-441-0846 Email: monica.sukhatme@nanobiotix.com</p>
TUESDAY, SEPTEMBER 17	
<p>Theater 1, Innovation Hub • 10:15 – 11:15 a.m. <i>Identifying and Treating Patients With Non-Metastatic Castration Resistant Prostate Cancer</i> Company: Janssen Biotech</p> <hr/> <p>Contact: Valarie Wright Phone: 951-662-5127 Email: vwright@its.jnj.com</p>	<p>Theater 2, Innovation Hub • 10:15 – 11:15 a.m. <i>Radiation Oncologists and TTFields</i> Company: Novocure</p> <hr/> <p>Contact: Sharon Alincastre Phone: 212-767-7546 Email: salincastre@novocure.com</p>
<p>Theater 1, Innovation Hub • 12:00 – 1:00 p.m. <i>Oncotype DX®: Personalizing Approaches to Locoregional Recurrence in Invasive Breast Cancer and DCIS</i> Company: Genomic Health</p> <hr/> <p>Contact: Ann Kopischke Phone: 206-779-9089 Email: akopischke@genomichealth.com</p>	<p>Theater 2, Innovation Hub • 12:00 – 1:00 p.m. <i>Come discover a systemic treatment option for patients with advanced CSCC</i> Company: Sanofi</p> <hr/> <p>Contact: Zack McCormack Phone: 908-332-4038 Email: Zack.Mccormack@sanofi.com</p>

THEATERS 1 AND 2 ARE LOCATED IN THE INNOVATION HUB, IN THE REAR OF THE INNOVATION AND SOLUTION SHOWCASE (EXHIBIT HALL).

EXHIBITOR LIST

As of June 26, 2019

For the most current exhibitor information or to view the floorplan of the Exhibit Hall, please visit www.astro.org/exhibithall.

.decimal	Cleveland Clinic Cancer Center	MAKEMERRY	RS&A Inc.
21st Century Oncology	Cold Shot Chillers	Mayo Clinic	RTsafe P.C.
AAPM	C-RAD Inc.	Medical Mediation Services	S+S Par Scientific
Acceletronics	Crux Quality Solutions, LLC (CruxQS)	MedLever, Inc.	Sanofi Genzyme
AccuBoost	CTSI Oncology Solutions	medPhoton	ScandiDos
Accuray Incorporated	DEEPROXEL INC.	Medtronic	Scar Heal Rejuvaskin
AEP Linac	Demos Medical Publishing	Merck & Co. Inc.	Sensus Healthcare
Akesis Inc.	DIACOR	Mevion Medical Systems	SegAna LLC
Aktina Medical Corporation	DoseOptics LLC	Miaderm at Aiden Industries, LLC	Shandong Xinhua Medical Instruments Co. Ltd.
Alliance Oncology	DOSIsoft	Micropos Medical AB	Shenzhen Tengfei Yu Technology Co. Ltd.
Alpha Tau Medical LTD.	DYN'R	MIM Software	Shielding Construction Solutions Inc.
American College of Radiology	Eckert & Ziegler BEBIG GmbH	Mirada Medical	Siemens Healthineers
American Joint Committee on Cancer	EhmetDX	Mission Search Corp	Siris Medical
Anatom-e XRT Information Systems Ltd.	Elekta	Mobius Imaging	SIT USA Inc.
AnazaoHealth Corporation	Elsevier	Modus Medical Devices Inc.	Sky Factory
AngioDynamics	Elsevier Clinical Solutions	MORE Health Inc.	SonaCare Medical LLC
Anzai Medical Co. Ltd.	Elsmid Healthcare Solutions	MPM Medical	Spellman High Voltage Electronics Corporation
architection	Equicare Health Inc.	MuCheck-Oncology Data Systems	Staff Care, Inc.
ASCO	Everson Tesla Inc.	Myriad Medical LLC	Standard Imaging
AstraZeneca	Fidia Pharma USA	NELCO	Sumitomo Heavy Industries Ltd.
ASTRO Connect: Breast	Foss Therapy Services Inc.	Novocure Inc.	Sun Nuclear Corporation
ASTRO Connect: Central Nervous System	FUJIFILM Medical Systems USA Inc.	NUCMEDCOR	Suremark Company
ASTRO Connect: Head and Neck	GE Healthcare	Oncology Business Professionals	Techna Institute - UHN
ASTRO Connect: Lung	GenomeDx Biosciences	Oncology Services International	Teledyne e2v UK Ltd
ASTRO Connect: Physics	Genomic Health Inc.	Orfit Industries America	TerSera Therapeutics
Augmenix	Gold Anchor	OSF HealthCare	The Phantom Laboratory
Aurea	GT Medical Technologies Inc.	P-Cure Ltd.	The US Oncology Network
Bayer	Hitachi Ltd.	Perception Vision Medical Technology Co. Ltd.	Theragenics Corporation
Beijing HGPT Technology & Trade Co. Ltd	Holland LP	Philips Healthcare	Toray Industries
Best Medical International Inc.	Hologic Inc.	Pitts Little Corp.	Toshiba Energy Systems & Solutions Corporation
BioProtect Ltd.	IBA (Ion Beam Applications)	PreludeDx	TRG Oncology Equipment
BK Medical	Imaging Technology News	ProTom International	TUV Rheinland
Blue Earth Diagnostics Inc.	Integrated Medical Technologies	Provision Healthcare	University of TX MD Anderson Cancer Center- Radiation Oncology
Bohaoyu Co. Ltd	IntraOp Medical Corporation	Prowess Inc.	UT Southwestern Medical Center at Dallas
Brainlab	Iron Medical Systems, Inc.	PTW-New York	Varian Medical Systems
Breast Microseed - Concure Oncology	iRT Systems GmbH	Pymedix Inc.	Veritas Medical Solutions
Bristol-Myers Squibb	IsoAid	Qfix	Vertual Ltd.
C4 Imaging LLC	IsoRay Medical Inc.	QLRAD Inc.	ViewRay Inc.
Cambridge Research Systems Limited	Itel, Italy	Quantek Systems	Vision RT Ltd.
Cancer CarePoint, Inc.	James L. Davis	Rad Onc Solutions	VisionTree Software Inc.
Canon Medical Systems USA	Jiahui International Hospital	RAD Technology Medical Systems	Vysioneer Inc.
Carl Zeiss Meditec, Inc.	Karger Publishers Inc.	Radformation	Wolters Kluwer
CDR Systems, Inc.	Klarity	Radiation Business Solutions	Xcision
Cemar Electro Inc.	Kunshan GuoLi Electronic Technology Co. Ltd.	Radiation Oncology Institute (ROI)	Xecan
Central Care Cancer Center	Lakeside Tool and Die	Radiation Products Design, Inc.	Xoft-a subsidiary of iCAD, Inc.
Cianna Medical	LAP of America LLC	Radiation Therapy Oncology Group	Xstrahl Limited
CIRS	Liberty Medical Inc.	Radiological Imaging Technology - RIT	
CivaTech Oncology, Inc.	Limbus AI Inc.	Radiology Oncology Systems, Inc.	
CIVCO Radiotherapy	LinaTech LLC	RaySearch Laboratories AB	
	Linbeck Construction	Reflexion	
	Logos Systems Int'l	Revenue Cycle Inc.	
	MacroMedics BV	Roche Diagnostics Corporation	
	MagnetTx Oncology Solutions		

Ambassadors are in **Bold**

2019 HOTELS



HOTELS

1	Blackstone, The 636 South Michigan Avenue Chicago, IL 60605	\$287
2	Embassy Suites Magnificent Mile 511 North Columbus Drive Chicago, IL 60611	\$299
3	Fairmont Chicago, Millennium Park 200 North Columbus Drive Chicago, IL 60601	\$305
4	Hampton Inn Chicago McCormick Place 123 East Cermak Street, Suite 100 Chicago, IL 60616	\$285
5	Hilton Chicago 720 South Michigan Avenue Chicago, IL 60605	\$284
6	Hilton Garden Inn Chicago McCormick Place 123 East Cermak Street, Suite 300 Chicago, IL 60616	\$282
7	Home2Suites Chicago McCormick Place 123 East Cermak Street, Suite 200 Chicago, IL 60616	\$285
8	Hyatt Regency Chicago 151 East Wacker Drive Chicago, IL 60601	\$292
9	Hyatt Regency McCormick Place (HQ) 2233 South Dr. Martin Luther King, Jr. Drive Chicago, IL 60616	\$322
10	InterContinental Chicago Magnificent Mile 505 North Michigan Avenue Chicago, IL 60611	\$296
11	Marriott Chicago Downtown Magnificent Mile 540 North Michigan Avenue Chicago, IL 60611	\$300
12	Marriott Marquis Chicago 2121 South Prairie Avenue Chicago, IL 60603	\$325
13	Palmer House Hilton 17 East Monroe Street Chicago, IL 60603	\$284
14	Renaissance Chicago Downtown One West Wacker Drive Chicago, IL 60601	\$294
15	Residence Inn Chicago Downtown/River North 410 North Dearborn Street Chicago, IL 60654	\$269
16	Sheraton Grand Chicago 301 East North Water Street Chicago, IL 60611	\$286
17	Springhill Suites Chicago Downtown/River North 410 North Dearborn Street Chicago, IL 60654	\$259
18	Swissôtel Chicago 323 East Upper Wacker Drive Chicago, IL 60601	\$275
19	Union League Club of Chicago 65 West Jackson Boulevard Chicago, IL 60604	\$249
20	Westin Chicago River North 320 North Dearborn Street Chicago, IL 60610	\$296

SHUTTLE MAP

Shuttle Service to McCormick Place West

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

HOURS OF OPERATION	
<i>Service will operate every 15-20 minutes.</i>	
Saturday, September 14	7:30 a.m. – 7:30 p.m.
Sunday, September 15	6:00 a.m. – 7:00 p.m.
Monday, September 16	6:30 a.m. – 6:30 p.m.
Tuesday, September 17	7:00 a.m. – 7:00 p.m.
Wednesday, September 18	7:00 a.m. – 5:00 p.m.

HOTELS AND BOARDING LOCATIONS			
<i>All travel times are approximate pending time of day, day of week and traffic conditions.</i>			
Route	Hotel	Boarding Location at Hotel	Approximate one-way travel time
1	Palmer House Hilton	Wabash St. entrance	15-25 minutes
	Union League of Chicago Hotel	At Palmer Hilton	
2	Blackstone, The	At Hilton Chicago	10-15 minutes
	Hilton Chicago	8th St. entrance	
3	Fairmont Chicago, Millennium Park	Curbside on Columbus Dr.	15-25 minutes
	Hyatt Regency Chicago	Curbside in front of East Tower	
	Swissôtel Chicago	At Hyatt Regency Chicago	
4	InterContinental Chicago Magnificent Mile	Upper Illinois St. entrance	25-35 minutes
	Marriott Chicago Downtown Magnificent Mile	On Ohio St. near Rush St.	
5	Embassy Suites Magnificent Mile	Curbside on Columbus Dr.	15-20 minutes
	Sheraton Grand Chicago	Curbside on Columbus Dr.	
6	Renaissance Chicago Downtown	Curbside in front, on Wacker Dr.	20-30 minutes
	Westin Chicago River North	On Clark St., across from hotel driveway	
Walk	Hampton Inn Chicago McCormick Place Hilton Garden Inn Chicago McCormick Place Home2Suites Chicago McCormick Place Hyatt Regency McCormick Place Marriott Marquis Chicago	Hotels are located within walking distance of McCormick Place West.	

Guests attending ASRT will have their own separate shuttle service provided by ASRT with service directly to McCormick Place South. Please be sure to look for the schedule from ASRT with information about the hours of operation and pick-up locations.

TWO CHICAGO ORGANIZATIONS AWARDED 2019 ASTRO SURVIVOR CIRCLE GRANTS

ASTRO recognizes Sisters Network Chicago Chapter and ALAS-Wings

TWO CHICAGO-AREA ORGANIZATIONS, SISTERS NETWORK CHICAGO CHAPTER AND ALAS-WINGS, were selected ASTRO's 2019 Survivor Circle grant winners for the services they provide to cancer patients, their families and caregivers. Each will receive a \$10,000 grant and be honored at the 61st Annual Meeting in Chicago. In addition to the monetary award, both organizations will be featured in the Survivor Circle exhibit at the meeting. The Survivor Circle Grant Program provides gifts of financial assistance to two cancer support organizations in the state hosting ASTRO's Annual Meeting.

Sisters Network Chicago Chapter is part of the largest African American breast cancer survivorship organization in the United States, Sisters Network® Inc., whose mission is to increase attention on the impact of breast cancer in the African American community. Serving the Chicago area since 2000, their objectives are to be a strong support base and emotional safe haven for women diagnosed with breast cancer; to lead advocacy and educational outreach efforts; and to educate their communities about the importance of early detection through routine screening.

According to Chicago chapter president Annie Jones, the emotional safe haven is their support groups. "Women diagnosed with breast cancer are going through a lot emotionally," she stated. "The support groups help them" by providing the company of fellow survivors with whom to share information.

The Chicago Chapter is one of more than 40 affiliate chapters of Sisters Network Inc. Their purpose, according to their website, is to "save lives and provide a broader scope of knowledge that addresses the breast cancer survivorship crisis affecting African American women around the country."



SISTERS NETWORK CHICAGO CHAPTER GIFT OF LIFE BLOCK WALK

Their philosophy is that no woman should forego living to get through treatment, and they use their Breast Cancer Assistance Program (BCAP) to help those currently in treatment who may have lost employment or have large insurance co-pays. Originally, funds helped only with living expenses. The program has expanded to include providing prostheses, bras and compression sleeves to help with lymphedema. "We give them money to help them financially," Jones said, but also to help maintain their dignity. "If they didn't have a prosthesis or mastectomy bra, they wouldn't be comfortable going out in public. We give them two sleeves, so they can alternate and always have a clean one."

The chapter's signature community event, The Gift of Life Block Walk, educates and provides primary health screenings for more than 300 people, and the organization conducts monthly support group meetings for survivors. To learn more about Sisters Network Chicago Chapter, please visit www.sistersnetworkchicagochapter.org.

ALAS-Wings, empowering Hispanic women in the Chicago area with breast cancer awareness, differentiates itself by offering face-to-face, tangible services in every phase of the breast cancer process. Their services comprise free support groups, educational workshops, mobile salon services and yoga classes for breast cancer survivors and their family members.



ALAS-Wings Website

ALAS-Wings facilitates support groups in Spanish for cancer survivors and their family and friends, providing a venue to share stories and celebrate milestones. Volunteer facilitators listen to concerns and offer empathetic, emotional support. One such volunteer, Bertha Mariscal, is ASTRO's 2019 Survivor Circle Award winner (see story on page 48). Educational workshops focus on breast health awareness and navigating the process of cancer treatment,

providing guidance and support for successful outcomes.

ALAS-Wings meets Latina survivors every day who are struggling to redefine womanhood and femininity in the absence of their breasts and provides free products for women who could not otherwise afford them through the mobile salon, ALAS on Wheels, which visits neighborhoods, health centers, parish houses and YMCAs. ALAS-Wings administrative assistant Sue Merlos recalls a recent salon visit by a woman who had had a right mastectomy. "She was uninsured and had made her own prosthesis out of a sandbag. She really didn't know how else to feel normal. I kept telling her that she was normal. I also told her that she was in the right hands. As I started to fit her for the bra and prosthesis, her face lit up. As soon as she saw herself in the mirror, she broke down crying. She couldn't stop thanking me and ALAS-Wings for her new look," Merlos said.

ALAS-Wings enables Hispanic/Latina women to move beyond cancer. Most are not eligible for insurance and have limited access to the life-saving resources that increase survivorship and improve quality of life. The ASTRO grant will provide culturally and linguistically tailored education, free bras, prostheses and sleeves, and, most importantly, psychosocial support for Latina survivors. To learn more about ALAS-Wings, please visit www.alas-wings.org. 

Please stop by the Survivor Circle booth to meet representatives of these fantastic organizations.



RESEARCHER SPOTLIGHT AND RESOURCES FOR RESEARCHERS

ASTRO HAS BEEN FUNDING SCIENTISTS for over 10 years through early career development awards and seed grants. These grants have helped launch careers of more than 60 scientists. Help us welcome the newest awardees and hear about the research from previous awardees in the Researchers Spotlight session on Tuesday, September 17, from 2:45 p.m. to 4:00 p.m.

Interested in obtaining your own research funding?

Learn how to write a winning proposal or letter of intent (LOI) from R01 funded experts and NCI program officers. Space is still available in the Grant Writing and LOI Workshops. Both will be held on Saturday, September 14. Grant Writing will be held from 9:00 a.m. to 12:00 p.m., and LOI from 1:00 p.m. to 3:00 p.m.

Looking for more information?

Drs. Aparna Kesarwala and Alexander Spektor are hosting a session, "Funding Your Research: Successful Strategies and Potential Pitfalls," on Tuesday, September 17, from 4:45 p.m. to 6:00 p.m. Learn from experts about funding strategies and best practices to obtain independent grants.

Still looking to expand your network?

Join the Community of Radiation Oncology Physician Scientists for an informal happy hour on Tuesday evening, September 17. This is an informal way to meet old and new friends and brainstorm new research projects. 

CHICAGO-AREA VOLUNTEER, ADVOCATE AND CANCER SURVIVOR SELECTED AS ASTRO'S 2019 SURVIVOR CIRCLE AWARD WINNER

ASTRO HAS SELECTED CHICAGO RESIDENT BERTHA MARISCAL, breast cancer survivor and ALAS-Wings advocate and volunteer, as the 2019 Survivor Circle Award winner. Mariscal will be honored for her service at an awards ceremony on Tuesday, September 17, during ASTRO's 61st Annual Meeting. Citing her efforts to "give back" to cancer patients in the Chicago community, the ASTRO Board of Directors found Mariscal's efforts "exemplary." The Survivor Circle Award recognizes a cancer survivor who lives in the metropolitan area where the ASTRO Annual Meeting is held and comes with a \$1,000 monetary award.

Mariscal was born and raised in Mexico City. Diagnosed with breast cancer in 2003, she was treated in Mexico before moving to Chicago. Having undergone a mastectomy, chemotherapy and radiation therapy, she is passionate about sharing her experience with other women — especially Latina women who may face additional hurdles understanding the language. "ALAS has helped me in so many ways," she stated, which inspired her to volunteer for the organization. "It's hard to make an informed decision. ALAS helps women understand breast cancer and the treatment options so we can advocate for ourselves and each other."

ALAS-Wings' mission, according to their website, enhances the "quality of life for the Latino community by providing breast health awareness, education and emotional support programs for Hispanic/Latina women and their families" in the Chicago area. Dedicated to empowering Hispanic women about breast cancer awareness, the not-for-profit organization offers support groups facilitated in Spanish for cancer survivors and their family and friends and maintains relationships with Chicago-area hospitals, medical facilities and Latino organizations.

It was in those support settings that Mariscal learned about treatments and their effects. Inspired by the "education, love and support" Mariscal received there after treatment, she said she was so overwhelmed that "I had to give back. I went through all my treatments alone [and] I would not want anyone to go through ... breast cancer alone!"

At ALAS-Wings, Mariscal volunteers by attending several support group meetings each month and helping

with sign-in and set-up at ALAS on Wheels: The Mobile Salon, which rolls into neighborhoods, health centers, parish houses and YMCAs with a mission of helping

survivors regain a sense of well-being, body image and self-esteem. "Many women do not accept life without a breast or without hair," she said. Through the mobile salon, ALAS-Wings provides prosthetic bras, wigs and prostheses at no cost to women with limited financial resources.

"ASTRO members work tirelessly every day to treat patients with cancer and to find a cure for this disease," said Thomas J. Eichler, MD, FASTRO and ASTRO president-elect in praising Mariscal. "We recognize the hardships patients endure through diagnosis, treatment and recovery. Thanks to people like you, we know that patients are getting the support and help they need."

Mariscal said, "My passion is to provide access to compassionate services and culturally and linguistically appropriate resources." She assists patients in becoming informed of their options, which she said is "key to choosing the best treatment." Just being a friendly face reminds cancer patients that she is there for them. "I call women to give support after their diagnosis and go with them to their doctors' appointments so they won't be alone."

She is also an advocate, attending health fairs, appearing on television and speaking on radio during Breast Cancer Awareness Month. Other organizations that benefit from Mariscal's volunteerism are the Lymphoma and Leukemia Society and other local organizations that support cancer fighters, survivors and caregivers.

"I feel good helping others. I feel even better seeing survivors thrive after breast cancer," Mariscal said. "Volunteering is my way to make sure this happens." 



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