

# HPS Health Physics News

Radiation Protection in Today's World



## 67th HPS Annual Meeting in Review

17–21 July 2022  
Spokane, Washington

### TABLE OF CONTENTS

<a href="#">The 67th HPS Annual Meeting in Spokane .....</a>	<a href="#">2</a>
<a href="#">Plenary Sessions.....</a>	<a href="#">3</a>
<a href="#">2022 Awards.....</a>	<a href="#">4</a>
<a href="#">Making Things Happen.....</a>	<a href="#">10</a>
<a href="#">Outgoing HPS Officers and Board Members .....</a>	<a href="#">11</a>
<a href="#">2022–2023 HPS Officers and Board of Directors .....</a>	<a href="#">11</a>
<a href="#">Four Treasurers.....</a>	<a href="#">11</a>
<a href="#">Virtual Science Teachers Workshop.....</a>	<a href="#">12</a>
<a href="#">Special Sessions: A Sampling.....</a>	<a href="#">13</a>
<a href="#">Students Participate in HPS Annual Meeting.....</a>	<a href="#">18</a>
<a href="#">PEPs and CELs.....</a>	<a href="#">20</a>
<a href="#">Elda Anderson Breakfast.....</a>	<a href="#">21</a>
<a href="#">Early Career Member Meeting Experience.....</a>	<a href="#">22</a>
<a href="#">HPS Publications Booth.....</a>	<a href="#">22</a>
<a href="#">Book Giveaway Donors .....</a>	<a href="#">23</a>
<a href="#">Health Physics Society Garage Sale, 2022 Edition .....</a>	<a href="#">24</a>
<a href="#">5K Fun Run/Walk.....</a>	<a href="#">24</a>
<a href="#">Military Health Physics Section.....</a>	<a href="#">25</a>
<a href="#">American Academy of Health Physics.....</a>	<a href="#">26</a>
<a href="#">2023 HPS Annual Meeting Booth .....</a>	<a href="#">26</a>
<a href="#">Night Out .....</a>	<a href="#">26</a>
<a href="#">In the Exhibit Hall: Vendors, Snacks, Posters.....</a>	<a href="#">27</a>
<a href="#">Advertisers/Sponsors.....</a>	<a href="#">28</a>



The 67th Health Physics Society (HPS) Annual Meeting was held in Spokane, Washington, 17–21 July 2022. The meeting was fully hybrid and included both in-person and virtual options.



Spokane is a beautiful city with several parks, magnificent waterfalls, and fascinating museums.  
Photo courtesy of Barbara Hamrick



Left, Spokane Mayor Nadine Woodward welcomes meeting attendees at the Monday morning plenary session. Right, Visit Spokane representative Bethany Lecher (standing) provides local information at the Companion Orientation.

Photos courtesy of Gene Carbaugh

[Return to Table of Contents](#)

## Plenary Sessions

Three plenary sessions were held this year, one each morning on Monday, Tuesday, and Wednesday.

### Monday Plenary: The International and Historical Perspective



In his welcoming comments, HPS President John Cardarelli, left, explained that the focus for Monday was on the international and historical perspective of radiation protection. International Commission on Radiological Protection Scientific Secretary and CEO Christopher Clement, center, presented his G. William Morgan Lecture, "Radiological Protection for the Next Generation." The Robert S. Landauer, Sr., Lecture was given by Ed Calabrese, right, of the University of Massachusetts/Amherst, who joined virtually and spoke about the history of the LNT model and the controversy it has engendered. Photos courtesy of Casper Sun. Screenshot courtesy of Mary Walchuk

### Tuesday Plenary: The National Perspective



Tuesday morning's plenary session, opened by HPS President John Cardarelli, left, was on radiation protection from a national perspective. National Academy of Sciences Engineering and Medicine Committee Chair Joe Gray, center, joined the session virtually with the prerecorded presentation "Leveraging Advances in Modern Science to Revitalize Low-Dose Radiation Research in the United States." National Council on Radiation Protection and Measurements President Kathryn Held, right, gave her G. William Morgan Lecture "NCRP: New Initiatives in Radiation Protection Sciences." Photos courtesy of Casper Sun. Screenshot courtesy of Mary Walchuk

[Return to Table of Contents](#)

## Wednesday Plenary: The Individual Perspective



At the Wednesday plenary session, first photo, left to right, Division of Compensation Analysis and Support Director Grady Calhoun, HPS Military Health Physics Section President Col. Rick Reyes, and HPS President John Cardarelli; second photo, Lt. Gen (Ret.) Charles Roadman II. After opening comments by Cardarelli, Reyes introduced Roadman, who presented the inaugural Commander James Cassata Memorial Lecture, "History and Accomplishments of the Veterans Advisory Board on Dose Reconstruction." Calhoun then gave his Robert S. Landauer, Sr., Lecture, "EEOICPA Overview" Photo courtesy of Edward Wallace. Screenshot courtesy of Mary Walchuk

## 2022 Awards

Congratulations to the recipients of the awards presented at the 67th Health Physics Society (HPS) Annual Meeting in Spokane. Information on HPS awards can be found on the [Awards page](#), [Fellowships page](#), and [Scholarships page](#) of the HPS website.

### HPS Elda E. Anderson Award Sara Dumit



*Elda E. Anderson Awardee Sara Dumit with HPS Past President Eric Goldin  
Photo courtesy of Edward Wallace*

Good afternoon! The first HPS annual meeting that I attended was right here in Spokane in 2016. I remember being impressed with the technical program and the wonderful people I met. I am grateful to return to Spokane to receive this prestigious award, which I deeply respect and take very seriously.

I am incredibly honored, and I give all glory, honor, and praise to God. I remember where I came from and the many challenges I have faced. I thank Jesus for giving me strength and wisdom, guiding my steps to the health physics field, and making me succeed. I thank the HPS for recognizing my accomplishments thus far and believing in my potential for continued excellence in the health physics field and continued service to the HPS.

I would not be standing here today without the support of so many outstanding people. I thank my PhD advisor, Dr. Sergei Tolmachev. He introduced me to internal dosimetry and was the most supportive mentor a student could ever have. I thank him and all the USTUR staff for teaching me so much.

I am grateful to the Rio Grande Chapter of the HPS. In particular, Past President Kris Hyatt and President Christine Bullock. They believed in me and nominated me for this award. Thank you. I am also grateful to my postdoctoral mentors, Dr. John Klumpp, Dr. Luiz Bertelli, and Dr. Guthrie Miller, for their never-ending support and for believing in my potential. Thank you.

[Return to Table of Contents](#)



Left to right: HPS Past President Eric Goldin, Abi Joy (face concealed), Sara and Felix Dumit, and HPS President John Cardarelli.  
Photo courtesy of Edward Wallace

I thank my former and current Division Leaders at Los Alamos National Laboratory: Maria Nappi, Jeff Hoffman, and Stephanie Archuleta, for everything they did for me these past four years. Thank you. I thank HPS Past President Nolan Hertel and Ali Simpkins, who believed I would be a great fit for the HPS Public Information Committee, of which I am still a member. Thank you.

Lastly, but most importantly, I thank my husband, Felix, who has been my greatest supporter in life for the past 10 years. I also thank my mom and dad, Lucia and Adauri, and my sister, Raquel, for always loving and believing in me. In conclusion, I dedicate this award to my beautiful and precious daughter, Abi Joy.

Thank you!

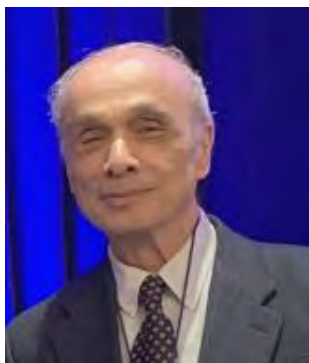
--Sara

### HPS Fellow Award



Left to right, Keith Eckerman, Philip C. Fulmer, John Keklak, and David Medich  
Submitted photos--Eckerman and Keklak, Photos courtesy of Edward Wallace--Fulmer and Medich

### HPS Distinguished Scientific Achievement Award



**Harold L. Beck**  
Submitted photo

### Geoffrey G. Eichholz Outstanding Science Teacher Award



**Huitzilin Ortiz**  
Submitted photo

### Student Science Award, "Use of Artificial Intelligence for Obtaining Optimal Wrist X Rays"



**Davarshi Dalal**  
Submitted photo

**G. William Morgan  
Lectureship Award**



**Chris Clement**  
Submitted photo

**G. William Morgan  
Lectureship Award**



**Kathy Held**  
Submitted photo

**Robert S. Landauer,  
Sr., Lectureship Award**



**Edward Calabrese**  
Submitted photo

**HPS 50-Year Members**

<b>John F. Agnew</b>	<b>Richard L. Doty</b>	<b>Elizabeth P. Katsikis</b>	<b>Mike Singh</b>
<b>Jerry D. Allison</b>	<b>Michael P. Grissom</b>	<b>Sheila I. Kronenberger</b>	<b>Henry B. Spitz</b>
<b>Caridad Borrás</b>	<b>John Handloser, Jr.</b>	<b>Linda L. Morris</b>	<b>Orhan Suleiman</b>
<b>Howard W. Dickson</b>	<b>Paul W. Harvey</b>	<b>Francis M. Roddy</b>	<b>John E. Till</b>

**Student Fellowships**

**Health Physics Society Fellowships: Robert Dawson and Sean Domal, University of Florida**

**Robert Gardner Memorial Fellowship: Ryan Tan, University of Tennessee**

**Robert S. Landauer, Sr., Memorial Fellowship: Andrew Rosenstrom, Georgia Institute of Technology**

**Richard J. Burk, Jr., Fellowship: Sarah Donaher, Clemson University**

**J. Newell Stannard Memorial Fellowship: Jillian Newmyer, Oregon State University**

**Dade W. Moeller Scholarship: Ethan Asano, Texas A&M**

**F. Ward Whicker Scholarship: Yuiko Chino, Colorado State University**



Student fellowship awardees who were able to attend the award ceremony, left to right, Robert Dawson, Sarah Donaher, Andrew Rosenstrom, Jillian Newmyer, and Ryan Tan

Photo courtesy of Edward Wallace

## Student Travel Grants

**Vanessa Adriatico, Oregon State University**  
**Johnson Aina, Idaho State University**  
**Mashael Almowallad, Illinois Institute of Technology**  
**Eric Ofosu Asare, University of Ghana-School of Nuclear and Allied Sciences**  
**Ignacio Bartol, Georgia Institute of Technology**  
**Yuiko Chino, ERHS, Colorado State University**  
**Long Kiu Chung, Stanford University**  
**Christopher Davis, University of Michigan**  
**Jeremiah Edwards, University of Alabama at Birmingham**  
**Philip Gyan, KEPCO International Nuclear Graduate School**  
**Jordan Hillis, Texas A&M University**  
**Jarriah Hooker, Alcorn State University**  
**De'Marcus Jackson, Alcorn state University**  
**Matthew Jalbert, Worcester Polytechnic Institute**  
**Chukwuka James, Alcorn State University**  
**Elif Kara, Ludwig Maximilian University of Munich/Helmholtz Zentrum Munch**  
**Andrew Kent, University of Michigan**  
**Ryan Kim, University of Michigan**

**Philippe Laporte, Universite de Montreal**  
**Heechan Lee, Georgia Institute of Technology**  
**Matthew Louis, Georgia Institute of Technology**  
**Anna Manfredi, Illinois Institute of Technology**  
**Dmitri Margot, Georgia Institute of Technology**  
**Emmanuel Mate-Kole, Georgia Institute of Technology**  
**Jordan Noey, University of Michigan**  
**April Parks, University of Massachusetts Lowell**  
**Paul Pierson, Columbia Basin College**  
**Michael Robinson, University of Michigan**  
**Abdullahi Shittu, King Abdulaziz University**  
**Felicia Shoulders, Alcorn State University**  
**Jonas Smith, Clemson University**  
**Colin Stewart, University of Michigan**  
**Colett Treas, Bloomsburg University of Pennsylvania**  
**Bryanna Wattier, Clemson University**  
**Raquema Williams, University of Alabama at Birmingham**



*A group of Student Travel Grant awardees at the 67th HPS Annual Meeting  
Photo courtesy of Edward Wallace*

## HPS Accelerator Section Awards

**H. Wade Patterson Memorial Award 2022**  
**Jordan Hillis**



Submitted photo

Jordan Hillis, Texas A&M University received the 2022 H. Wade Patterson Memorial Award at the HPS Meeting in Spokane, Washington, in recognition of her presentation "Analysis of Relative Hazards and Detection Capabilities for Radionuclides at the Spallation Neutron Source."

**Lutz Moritz Memorial Award 2022**  
**Andrew Rosenstrom**



Submitted photo

Andrew Rosenstrom, Georgia Institute of Technology, received the 2022 Lutz Moritz Memorial Award at the HPS Meeting in Spokane, Washington, in recognition of his presentation "High Power Beam Dump Shielding Design for the LCLS-II-HE Low Emittance Injector."

## HPS Academic, Industrial, and Research Radiation Safety (AIRRS) Section Award

### Outstanding Radiation Safety Program Award University of Massachusetts Lowell (UML) Radiation Safety Office



Section President Latha Vasudevan, left center, presents the first AIRRS Section Outstanding Radiation Safety Program Award to the University of Massachusetts Lowell. The award was accepted by Steven Snay, the university's radiation safety officer, and his team members. Photo courtesy of Latha Vasudevan

## HPS Homeland Security and Emergency Response Section Award

### Distinguished Service Award Daniel J. Blumenthal



Homeland Security and Emergency Response Section President William "Bill" Irwin, right, presents the 2022 Homeland Security and Emergency Response Section "Distinguished Service Award" to Daniel Blumenthal, PhD, CHP, FHPS, US Department of Energy, Attaché, US Embassy in Israel, during the section's business meeting at the annual meeting of the HPS in Spokane, Washington. The section will be holding an election for new officers and reviewing proposed changes to section bylaws and other documents with section members this fall.

Photo courtesy of Casper Sun

[Return to Table of Contents](#)

## HPS Military Health Physics Section Awards

### Civilian Superior Service Award Michael "Mike" R. Call



COL Ricardo Reyes, US Army, right, presents the 2022 Military Health Physics Section "Civilian Superior Service Award" to Michael R. "Mike" Call, Portsmouth Naval Shipyard. Accepting the award for Call is CAPT Greg Fairchild, US Navy, director for Radiological Controls, Naval Sea Systems Command. The award consists of a plaque.  
Photo courtesy of Casper Sun

### Civilian Superior Service Award Brian B. Hearty



COL Ricardo Reyes, US Army, right, presents the 2022 Military Health Physics Section Section "Civilian Superior Service Award" to Brian B. Hearty, US Army Corp of Engineers. Accepting the award for Hearty is Timothy Mikulski, radiation safety officer for the US Army. The award consists of a plaque.  
Photo courtesy of Casper Sun

### Young Military Health Physicist of the Year Award Kristina D. Yepez

COL Ricardo Reyes, US Army, right, presents the 2022 Military Health Physics Section "Young Military Health Physicist of the Year Award" to LT Kristina D. Yepez, MSC, US Navy. Accepting the Award for LT Yepez is CAPT Greg Fairchild, US Navy, director for Radiological Controls, Naval Sea Systems Command. The award consists of a certificate and one year membership in the Health Physics Society.  
Photo courtesy of Casper Sun



### Commander James Cassata Memorial Lecture Award Charles H. Roadman II, MD, Lt. Gen. USAF (Ret.)

Charles H. Roadman II, MD, Lt. Gen. US Air Force (Ret.), delivered the first "Commander James Cassata Memorial Lecture" as one of Wednesday's plenary session speakers at the 67th HPS Annual Meeting in Spokane, Washington, July 2022. This was the first lecture to honor the memory and accomplishments of Commander James "Jim" Cassata, MSC, US Navy (Ret.); this lectureship was established by the Military Health Physics Section in 2021.

Dr. Roadman retired in 1999 as the Surgeon General of the United States Air Force and was responsible for health care policy, quality of care, resource allocation, and oversight of health services to 2.4 million beneficiaries through an integrated health care delivery system of 79 treatment facilities worldwide and 48,000 medical personnel. In 2007 he served as a member of the Department of Defense Independent Review Group, chartered by the Secretary of Defense to review the rehabilitation



*Charles H. Roadman II, MD, Lt. Gen. US Air Force (Ret.)  
Submitted photo*

and administrative processes at Walter Reed and Bethesda. Roadman has a BS in geology from Washington and Lee University and an MD from Emory University School of Medicine. During the clinical phase of his career, he was a board-certified obstetrician and gynecologist. He is the former chair of the congressionally mandated Veterans' Advisory Board on Dose Reconstruction (VBDR). His lecture was titled "The History and Accomplishments of the Veterans' Advisory Board on Dose Reconstruction."



Commander James Cassata  
Submitted photo

Commander James "Jim" Cassata was a retired naval officer, former executive secretary of the National Council on Radiation Protection and Measurements, health physicist with the Nuclear Regulatory Commission, and former president of the HPS Military Health Physics Section. He is perhaps best known for designing the radiation dosimeter that annually monitors ~55,000 naval personnel. Following the 2011 Fukushima Daiichi Nuclear Power Station radiological releases, he led the Department of Defense (DOD) effort in establishing an internal dose monitoring program and was part of the joint military group that completed the upper-bound dose calculations for over 75,000 DOD-affiliated individuals who were living or working in or around Japan during the months following the earthquake. Jim personified the military health physics community's commitment and ongoing concern for active-duty military personnel, their families, and our veterans. The Military Health Physics Section looks forward to future lectures honoring Commander James Cassata.

### American Academy of Health Physics Awards

**Joyce P. Davis Memorial Award**



**Dr. Samuel Baker**  
Submitted photo

**Nancy K. Johnson National Service Award**



**James P. Nunn**  
Submitted photo

**William A. McAdams Outstanding Service Award**



**Wei-Hsung Wang**  
Submitted photo

### Making Things Happen



Some of the people working hard to make the meeting successful are HPS Executive Director Brett Burk; members of the Secretariat and registration desk helpers Cassidy Burk, Dawn Lewandowski, Lori Strong, and Jill Drupa; and photographer Casper Sun with Standards Committee Chair Antonio Triventi.

Photos courtesy of Casper Sun

### Outgoing HPS Officers and Board Members



HPS President John Cardarelli presents certificates of appreciation for their service to the Society to, left to right, Past Treasurer Ali Simpkins, Past Treasurer-elect Kendall Berry, and Past Director Latha Vasudevan; Director Tim Taulbee also transitioned off the Board in July. Photos courtesy of Jill Drupa and Casper Sun

### 2022–2023 HPS Officers and Board of Directors



The current officers and directors of the HPS are, left to right, Secretary-elect Tim Kirkham, Executive Director Brett Burk, Director Adela Salame-Alfie, Director Kathy Higley, President-elect Elizabeth Brackett, Director Mike Boyd, Student Support Committee Chair Dawn Montgomery, Treasurer Kendall Berry, Secretary Nicole Martinez, Director Angela Leek, and President John Cardarelli. Not pictured: Director Shaheen Dewji and Director Jama D. VanHorne-Sealy  
Photo courtesy of Casper Sun

### Four Treasurers



It is not uncommon for friends and colleagues to congregate in the exhibit hall during the breaks. What is unique about this encounter is that it contains the last four HPS treasurers, left to right in order of their service, Kathy Shingleton, Mike Lewandowski, Steve King, and Ali Simpkins.  
Photo courtesy of Dawn Lewandowski

## Virtual Science Teachers Workshop

Latha Vasudevan, Science Support Committee Chair

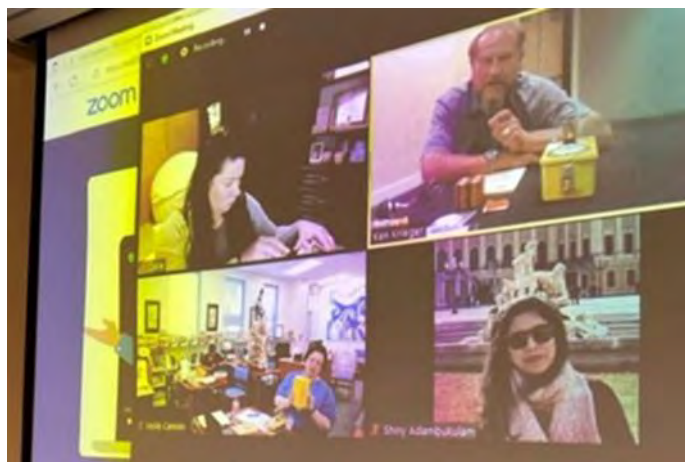


*The Science Teachers Workshop was held Sunday, 17 July. Participants included, left to right, Ken Krieger, Ian Lake, Dan Strom, George Tabatadze, Linda Morris, and Latha Vasudevan, joined by virtual attendees.*

*Photo courtesy of Casper Sun*

Biological Effects of Radiation, Radiation Meters and Experiments, Overview of Radioactive Waste, and Careers in Health Physics.

A free instrumentation kit was sent to all the participating teachers prior to the workshop—the kit included a working Geiger counter, Lantern mantle, piece of naturally radioactive Fiesta® ware, and charcoal cartridge.



*Science Teachers Workshop virtual attendees.*  
*Photo courtesy of Latha Vasudevan*

The HPS Science Support Committee hosted its first one-of-a-kind "Virtual Science Teacher Workshop" on 17 July 2022 during the annual meeting in Spokane.

The option was available to have local science teachers attend in person. However, we only had virtual attendees, including six science teachers (5<sup>th</sup>, 7<sup>th</sup>, and 8<sup>th</sup> grades) from Waco, Texas; Richland, Washington; and College Station, Texas.

Linda Morris (Texas Low Level Radioactive Waste Disposal Compact Commission) and Kenneth Krieger (Radiation Technology, Inc.) were the primary instructors who spearheaded this workshop and made it successful.

Other instructors were George Tabatadze (Washington State University), Dan Strom (US Transuranium and Uranium Registries, Washington State University), and Ian Lake (Beaumont Health, Michigan).

The topics covered in the workshop were Introduction and Workshop Information, Radiation Fundamentals, Overview of

The electronic files with all teaching materials and copy of the PowerPoint presentation were also included in the kit.

The Science Support Committee worked hard to put together the workshop materials, which are available [through the HPS website](#). With the successful launch of this virtual workshop, the committee may consider doing this again at the next annual meeting and will be soliciting for more participation from teachers.

If chapters wish to host science teacher workshops, they can reach out to any of the [Science Support Committee](#) members.

Overall, the workshop was a great success and the committee thanks all the instructors who put together a phenomenal workshop.

## Special Sessions: A Sampling

### International Collaboration Committee Special Session



The International Collaboration Committee Special Session, [How to Influence the Future of Radiological Protection](#), was held on 21 July. Among the participants in the session were, left to right, Session Chair Dr. George Tabatadze and Dr. Donald Cool, International Commission on Radiological Protection. Cool presented "How Do I Get Involved in US Recommendations and Regulations." It was a phenomenal special session!

Photo courtesy of Sara Dumit

### Internal Dosimetry Session



The Internal Dosimetry Session took place on 19 July and was well attended. A total of [ten abstracts](#) were presented in person. The presentations included topics on biokinetic models, dose assessment, in vivo counting systems, uncertain parameters, uncertainty propagation, effective communication, and others! The photo shows the session speakers and chair, left to right, Daniel Strom, Stacey McComish, Lainy Cochran, Deepesh Poudel, Session Chair Sara Dumit, Dmitri Margot, Mauritius Hiller, and LaVonne Stamper. Speaker Michael Stabin was not present when the photo was taken.

Photo courtesy of Sergej Tolmachev

[Return to Table of Contents](#)

## HPS Government Relations Program Session



The HPS Government Relations Program Session took place on 18 July and included the following presentations:

- Top row, left to right,
  - Craig Little, HPS Federal Agency Liaison (Interacting With Federal Agencies and Congress: The HPS Government Relations Program)
  - Joseph P. Ring, HPS Government Relations Committee Chair (Health Physics Society Government Relations Committee)
  - Isaf Al-Nabulsi, US Department of Energy (The United States Department of Energy Radiation Health Studies Programs)
- Bottom row, left to right,
  - Stephanie Coffin, US Nuclear Regulatory Commission (The Nuclear Regulatory Commission's \$16 Million University Nuclear Leadership Program)
  - Theresa Clark, US Nuclear Regulatory Commission (Health Physicists: The Next Generation, Building Capacity for Our Radiation Protection Future at the Nuclear Regulatory Commission)
  - Mike Boyd, US Environmental Protection Agency (An Overview of the 2022 OSTP Recommendations for Coordinating Radiation Biology Research)
  - David Connolly, HPS Congressional Liaison (HPS and DC: The HPS Government Relations Program)

Photos and screenshots courtesy of Casper Sun and Mary Walchuk

## Workings of the Health Physics Society: A "How To" Training Session



The Workings of the Health Physics Society Session took place on 21 July and included presentations by the following HPS leaders:

- Top row, left to right,
  - Tim Taulbee (Introduction)
  - Nicole Martinez (Practical Strategies to Promote Inclusiveness)
  - Jan Braun (Bylaws, Rules, and Standard Operating Procedures),
  - Emily Caffrey (The Health Physics Society's Ask the Experts Feature: A Tool for Risk Communication)
- Middle row, left to right,
  - Charles Wilson (Transitioning From Student to Early Career Professional for the Health Physicist)
  - Thomas Johnson (Tips on How to Prepare for the ABHP Exam)
  - Lainy Cochran (HPS Membership Renewal and Upgrade Overview)
  - Brant Ulsh (Getting the Most From Your *Health Physics* Journal)
- Bottom row, left to right,
  - Chris Shaw (Presenting at HPS Meetings: A Program Committee Perspective)
  - Eric Goldin (Awards Committee and Scientific and Public Issues Committee)
  - Mike Mahathy (HPS Continuing Education Programs: Past, Present, Future)
  - Brant Ulsh (Radiation Biology for Health Physicists)

Screenshots courtesy of Mary Walchuk

[Return to Table of Contents](#)

## The HPS Standards Organization Special Session, A Tremendous Success

*Antonio Triventi, HPS Standards Committee Chair*

At the 67th Health Physics Society (HPS) Annual Meeting in Spokane, the HPS Standards Organization Special Session was held on Wednesday, 20 July 2022, in the Centennial Ballroom, 9:30–11:50 am.

The special session was conducted in two parts separated by a break. In the first part, speakers provided insights regarding the activities carried on by:

- The HPS Standards Committee (HPSSC) - Antonio Triventi (HPSSC chair and special session chair).
- The ANSI N13 Committee - Matthew Barnett (ANSI N13 chair).
- The ANSI N43 Committee - Richard Whitman (ANSI N43 vice chair).
- The ISO TC85/SC2 Committee - Jim Herrold (US NTAG ISO/TC85 chair and US TAG ISO/TC85/SC2 chair).

In the second part, a group of panelists including Barnett, Herrold, Gus Potter (ANSI N13 vice-chair), and Triventi addressed questions from the audience present in person and connected remotely through the meeting website.

The panel discussion turned out to be a very engaging moment where HPS members had a tangible opportunity to learn more about the standards-development process, the rewarding aspects of volunteering, and how to get involved. Especially relevant, encouraging, promising, and inspiring was the clear interest shown by several students and early-career professionals who were in attendance and who indicated they would like to contribute. They asked insightful questions during the panel discussion and followed up afterwards by providing their contact information and résumés for consideration.

In conclusion, the HPS Standards Organization Special Session accomplished its goal of garnering attention to standards and to bringing in new contributors to keep supporting and sustaining the standards-development process.

The special session was recorded and is available until 31 December for those who have registered for the 67th HPS Annual Meeting. Log into the meeting site using the link you were sent when you registered. The Sign In button is at the top right side of the page. The sessions are available from the Schedule tab. If you have trouble finding/accessing your Pathable link, email [meetings@HPS.org](mailto:meetings@HPS.org) and ask to have your sign-in information sent to you. If you did not previously register and would like to view sessions from the meeting, registration is still open [on the meeting website](#).

For questions, comments, and feedback, [contact Antonio Triventi](#).



*Speakers at the HPS Standards Organization Special Session, left to right, Antonio Triventi, Matthew Barnett, Richard Whitman, and Jim Herrold  
Photos courtesy of Casper Sun*

## AIRRS Section Special Session and Business Meeting

Latha Vasudevan, Section President



AIRRS Section roundtable, top left to right, Ruth McBurney, Caitlin Root, Latha Vasudevan, and Alex Bakken, bottom, Alan Jackson  
Photos courtesy of Latha Vasudevan

The Academic, Industrial, and Research Radiation Safety (AIRRS) Section conducted its third consecutive roundtable special session at the 67th Health Physics Society (HPS) Annual Meeting on 21 July 2022. This year there were four panelists (subject matter experts) who initiated engaging conversations on four different topics encompassing areas in private industry, academia, research, and a cadre of contemporary challenging issues confronting today's health physicists.

The first panelist was Conference of Radiation Control Program Directors, Inc. (CRCPD) Executive Director Ruth McBurney, CHP. She started the discussion on decommissioning issues from the CRCPD standpoint and showed some slides of actual site decommissioning and site remediation. Alan Jackson, CHP, radiation safety officer for the Henry Ford Hospital in Detroit, Michigan, was the next panelist (virtual) and he discussed issues associated with health physicist retention and staffing challenges in the industry today. The third panelist was Alex Bakken, radioisotope research & development (R&D) specialist at Niowave, Inc., in Lansing, Michigan. He discussed challenges and issues facing R&D related to isotope production. The final speaker was Caitlin Root, a safety advisor at Yale University and secretary/treasurer of the AIRRS Section. She discussed the challenges and developments in radiation safety culture.

AIRRS Section President Latha Vasudevan, PhD, CHP, served as the moderator for this year's special session. The AIRRS Section supported early-career member Ian Parker who monitored the chat room function virtually. Parker is a radiological engineer for Newtech Environmental Solutions. All the panelists presented their topics in an organized fashion and created a very vibrant and interactive atmosphere. Several thoughtful questions and comments came from the audience who also shared their

experiences and challenges. Altogether, the special session was very well attended with almost 40 attendees including in-person and virtual participants. AIRRS thanks the panelists and all those who participated in the interactive session.



Carl Tarantino, left, and Latha Vasudevan at the AIRRS Section business meeting  
Photo courtesy of Latha Vasudevan

The special session was immediately followed by the AIRRS Section business meeting where the newly elected board members were announced. AIRRS Section Past President Carl Tarantino, CHP, thanked all the outgoing board members and welcomed the incoming members. A discussion of the future initiatives of AIRRS followed. The first AIRRS "Outstanding Radiation Safety Program Award" was awarded to the University of Massachusetts Lowell. University Radiation Safety Officer Steven Snay and two of his team members were present during the meeting. The award plaque was sent to the university.

AIRRS members are encouraged to [visit the section's website](#) to read and learn of historical and current activities, board meeting correspondences, etc. The AIRRS board invites its members to be proactive in submitting noteworthy articles, industry experiences, photos, videos, links to webinars/webcasts, or other items that deal with academia, industry, research, and any radiation safety related initiatives. Further, the AIRRS board solicits and encourages member comments to enhance AIRRS mission and offer suggestions for future activities. If any member wishes to participate in a board meeting, usually conducted using the Zoom platform, [contact any board officer](#) to be included in the invitee list for the meeting.

[Return to Table of Contents](#)

## Students Participate in HPS Annual Meeting

*Johnson Aina, Idaho State University, and Jordan Noey, University of Michigan  
Photos courtesy of Dawn Montgomery*

The 67th Health Physics Society (HPS) Annual Meeting in Spokane, Washington, was indeed fantastic. The HPS Student Support Committee (SSC) recorded a good turnout of students at all our events! Many students worked at the meeting, and the SSC was able to host all the planned in-person events, including the return of the annual quiz bowl, speed networking, and a hybrid committee meeting.



*Student workers at the 67th HPS Annual Meeting*

The quiz bowl was an exciting competition where questions from all aspects of health physics were asked. There was some awesome participation with spectators cheering on the teams competing for the grand prize. The teams competing this year included students from Clemson University, Idaho State University, Georgia Institute of Technology, the University of Alabama at Birmingham, Colorado State University, and the University of Massachusetts, Lowell.



*The quiz bowl competition and spectators*





Quiz bowl team members:

Enrichment 95% - Yuiko Chino, Heechan Lee, Ignacio Bartol, Emmanuel Mate-Kole

Nucleons - Paul Pierson, Raquema Williams, Elif Kara, Aaron Otterstein

Natty Labbers - Samuel Dombkowski, Ceara Buckley, Cassia Fontes, Hailey Coffman

The Nukes - Jonas Smith, Johnson Aina, Sarah Donaher, Bryanna Wattier



*The speed networking event at the 67th HPS Annual Meeting*

The speed networking event witnessed 30 attendees (16 students, 5 early career professionals, and 9 established professionals). It was an exciting time—students met and connected with both early career professionals and experienced individuals within the HPS in a fun and relaxed atmosphere. This year's speed networking witnessed professionals in industries such as Los Alamos National Laboratory, Sandia National Laboratory, Versant Medical Physics and Radiation Safety, Radiation Safety and Control Services Inc., the Department of Energy, etc.

Professionals in academia were also present to mentor students and give insights on research and collaboration.

Lastly, the hybrid SCC meeting was held, and several deliberations were made. The committee recorded five new members (Jillian Newmyer, Jordan Hillis, Josh Hargraves, Steve Kustka, and DeMarcus Jackson) joining the team. Also, two vice chairs (Jordan Noey and Jillian Newmyer) were nominated to assist the chair.

The SSC looks forward to hosting a bigger event next year's HPS annual meeting in Gaylord National Harbor, Washington DC, with more even students participating!

[Return to Table of Contents](#)

## PEPs and CELs



Left, Stacey Haines and Gene Carbaugh greet students at the sign-in table for a Sunday morning PEP course. Right, Mike Clemmer presents PEP 1-B: Alpha Spectroscopy for the Health Physicist. Photos courtesy of Ed Wallace

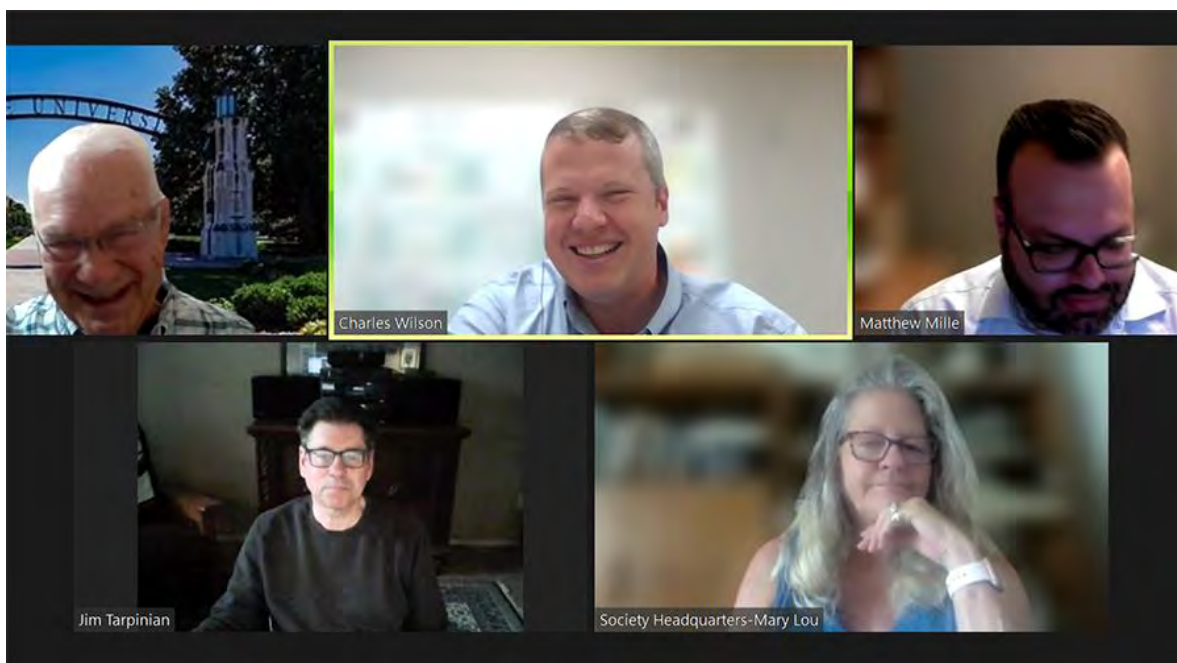


Carolyn McKenzie presents CEL-1: How to Remove and Replace Your Cesium Irradiator. Photo courtesy of Gene Carbaugh

## Elda Anderson Breakfast



The Elda Anderson Breakfast was held Monday, 18 July, in honor of past and present recipients of the HPS Elda E. Anderson Award. In-person attendees included, front row, left to right, Ali Simpkins, Nicole Martinez, Sara Dumit, Emily Caffrey, Kenneth Kase, and Richard Brey; back row, left to right, Timothy DeVol, Scott O. Schwahn, Darrell R. Fisher, Jason Harris, Kathryn A. Higley, and Derek Jokisch. Photo courtesy of Casper Sun



The online participants of the Elda E Anderson Breakfast included Paul Ziemer, Charles Wilson, Matt Mille, Jim Tarpinian, and the Secretariat's Mary Lou Robinson. Screenshot courtesy of Charles Wilson

## Early Career Member Gianna Porro's Meeting Experience



Photo courtesy of Casper Sun

This past July I had the opportunity to attend the HPS Annual Meeting in Spokane. Through this event I was able to expand my knowledge on current events and research topics throughout the health physics field. I am currently a health physicist (HP) at Lawrence Livermore National Laboratory (LLNL) within the radiation protection functional area. As an HP at LLNL, I provide field support to the operations and business organization, develop and revise policies in accordance with 10 CFR 835, and am currently in training to provide support for emergency response at LLNL's National Atmospheric Release Advisory Center. I joined the HPS to find a group of like-minded professionals to help grow both professionally and personally within my career. One of the biggest draws of the HPS was the diverse and multidisciplinary nature, from academic to industrial to government relations aspects of health physics.

The most notable experience of the conference was the overwhelming amount of support from fellow HPs and their eagerness to offer guidance and share their experience within the field. As someone who is starting their career in the industry, it is important to learn about different areas of emphasis and research within health physics. In addition to networking with a wide variety of scientists with expertise in varying topics, the annual conference was a great opportunity for continuing education. As I am transitioning from academia to industry, it was helpful to hear about others career paths and gain the opinion of industry professionals. As I solidify the trajectory of my career, it was inspiring to have a group of knowledgeable individuals who I can consider mentors.

I am so thankful for my experience at the conference and the connections I have made, I look forward to making a lasting contribution within this field.

## HPS Publications Booth



The HPS Publications team – including, left to right, Health Physics Managing Editor Mary Gene Ryan, Health Physics Editor in Chief Brant Ulsh, Health Physics Editorial Assistant Deanna Baker, and Web Operations Editor in Chief Barbara Hamrick – greeted attendees with information about HPS publications, invited suggestions, and answered questions. Attendees who filled out a survey were entered into a drawing for radiation-related books. Kathy McLellan, far right, was one of the lucky winners. Photos courtesy of Casper Sun

## 2022 HPS Publications Book Drawing

**Thank you to the following authors and publishers who donated books to our drawing this year.**

- The Atomic City Girls* – Janet Beard (available from Harper Collins Publishers, [www.harpercollins.com](http://www.harpercollins.com), ISBN: 978-0062666710)
- Dead Hot: A Dakota Mystery* – M.K. Coker (available at [amazon.com](http://amazon.com), ISBN: 978-1545120606)
- Diagnostic Radiology Physics, A Handbook for Teachers and Students* – Technical Editors D.R. Dance, S. Christofides, A.D.A. Maidment, I.D. McLean, and K.H. Ng (available from International Atomic Energy Agency, [www.iaea.org/publications](http://www.iaea.org/publications), ISBN: 978-9201310101)
- Dosimetry of Small Static Fields Used in External Beam Radiotherapy, TRS No. 483* – Technical Reports Series No. 483 (available from International Atomic Energy Agency, [www.iaea.org/publications](http://www.iaea.org/publications), ISBN: 978-9201059161)
- Environmental Health, 4th Edition* – Dade Moeller (available from Harvard University Press, [www.hup.harvard.edu](http://www.hup.harvard.edu), ISBN: 978-0674047402)
- The Essential Physics of Medical Imaging, Third Edition* – Jerrold T. Bushberg, J. Anthony Seibert, Edwin M. Leidholdt, Jr., and John M. Boone (available at [amazon.com](http://amazon.com), ISBN: 978-0781780575)
- Health Physics and Radiological Health, 4th Edition* – Thomas E. Johnson and Brian K. Birky (available from Wolters Kluwer, Lippincott Williams & Wilkins, [shop.lww.com](http://shop.lww.com), ISBN: 978-1609134198)
- The Health Physics Solutions Manual, 3rd Edition* – Thomas E. Johnson (available at [amazon.com](http://amazon.com), ISBN: 978-1929169054)
- Herbert M. Parker: Publications and Other Contributions to Radiological and Health Physics* – edited by Ronald L. Kathren, Raymond W. Baalman, and William J. Bair (available at [amazon.com](http://amazon.com), ISBN: 978-0935470369)
- The Immortal Life of Henrietta Lacks* – Rebecca Skloot (available at [amazon.com](http://amazon.com), ISBN: 978-1400052189)
- Introduction of Image Guided Radiotherapy Into Clinical Practice* – International Atomic Energy Agency (available from IAEA, [www.iaea.org/publications](http://www.iaea.org/publications), ISBN: 978-9201032188)
- Introduction to Health Physics, 5th Edition* – Thomas E. Johnson (available at [amazon.com](http://amazon.com), ISBN: 978-0071835275)
- Low Dose Radiation: The History of the U.S. Department of Energy Research Program* – Antone L. Brooks (available from Washington State University Press, [wsupress.wsu.edu](http://wsupress.wsu.edu), ISBN: 978-087422-3545)
- The Medical Basis for Radiation-Accident Preparedness* – Edited by Doran M. Christensen, Stephen L. Sugarman, and Frederick M. O'Hara, Jr. (available in Kindle format at [amazon.com](http://amazon.com), ISBN: 978-0989050203)
- Radiation Protection: The Essential Guide for Technologists* – Thomas E. Johnson (available at [Pastime Publications](http://PastimePublications), ISBN: 978-1929169061)
- Radiation Protection: Solutions Manual* – Thomas E. Johnson and David J. Dolan (available at [Pastime Publications](http://PastimePublications), ISBN: 978-1929169153)
- Radiation Protection: The Essential Workbook for Technologists* – Thomas E. Johnson (available at [Pastime Publications](http://PastimePublications), ISBN: 978-1929169078)
- Radiation Protection and Safety in Medical Uses of Ionizing Radiation* – IAEA Specific Safety Guide No. SSG-46 (available from International Atomic Energy Agency, [www.iaea.org/publications](http://www.iaea.org/publications), ISBN: 978-9201017178)
- Radiobiology for the Radiologist* – Eric J. Hall and Amato J. Giaccia (available from Wolters Kluwer, Lippincott Williams & Wilkins, [shop.lww.com](http://shop.lww.com), ISBN: 978-1496335418)
- Silent Source: A Medical Thriller* – James Marshall Smith (available at [amazon.com](http://amazon.com), ISBN: 978-1939398703)

# Health Physics Society Garage Sale, 2022 Edition

*Kenneth Krieger, CHP*



*Photo courtesy of Andy Thompkins*

HPS held another garage sale at the meeting in Spokane and the items for sale included several old survey meters, several old books (some predating the 1950s), and miscellaneous items. Some items of interest were a magnet of Miss Atomic bomb from 1957, an action figure of Einstein, and an old Nuclear Chicago absorber kit from the mid-50s. At last count, the auction raised over \$1,700 for scholarships and student travel grants for the Society.



*Photos courtesy of Barbara Hamrick*

## 5K Fun Run/Walk



The 5K Fun Run/Walk was held Tuesday morning, 19 July. The course began on the river side of the Spokane Convention Center and followed the Centennial Trail east, across the Spokane River, through the Gonzaga University campus, to Mission Park, and back.  
 Photos courtesy of Gene Carbaugh

## Military Health Physics Section



The incoming slate of officers of the Military Health Physics Section of the HPS includes, left to right, LCDR Jeffrey Caudill, USN, Secretary-Treasurer; LCDR Caleb Tracy, USN, Board Member; Lt.Col. Christina Peace, USAF, President-elect; COL Ricardo Reyes, USA, Outgoing President; CAPT Greg Fairchild, USN, Incoming President; Michael Bak, Board Member; and Daniel Mannis, Board Member. The officers were installed at the Military Health Physics Section Business Meeting on 21 July 2022 in Spokane, Washington, at the annual HPS meeting. Photo courtesy of Casper Sun



Uniformed Services active duty and retired members of the Military Health Physics Section, including HPS President CAPT John Cardarelli, USPHS (Ret.), at the annual meeting of the HPS in Spokane. Photo courtesy of Edward Wallace

[Return to Table of Contents](#)

## American Academy of Health Physics (AAHP)



AAHP leadership present at the 67th HPS Annual Meeting included, front row, left to right, Past President Scott Schwahn, Past Secretary Elaine Marshall, Director Cheryl Olson, Director Igwekala Edwin Njoku, and Past Director Wayne Gaul; back row, left to right, President-elect Armin Ansari, Executive Director Michael Canino, ABHP Chair/Ex-Officio Member Kyle Kleinhans, President Gus Potter, Secretary Willie Harris, Treasurer Tracy Ikenberry, CHP Corner Editor Dan Sowers, and ABHP Vice-Chair Allen Mabry.  
Photo courtesy of Casper Sun

## 2024 HPS Annual Meeting Booth



At the 68th HPS Annual Meeting booth, left to right, Kathy Held, Kathy McLellan, Mike Boyd, and David Zuenkel provided information about the next annual meeting, which will be held 23–27 July 2023 at Gaylord National Harbor.

Photo courtesy of Casper Sun

## Night Out



This year's Night Out took place at O'Doherty's Irish Grille and Pub. Attendees enjoyed a delicious Irish meal followed by Songs and Stories of the Pacific Northwest by noted Northwest folk entertainer Hank Cramer. Hank is in high demand for folk festivals, concerts, and cultural presentations, and hails from Winthrop, Washington (home to HPS Past President Nancy Kirner). He even has some ties to our profession as a retired emergency planner. Check out his website at [hankcramer.com](http://hankcramer.com).  
Photo courtesy of Susan Carbaugh

## In the Exhibit Hall: Vendors, Snacks, Posters



Attendees visited the exhibit hall in between sessions to learn about the many vendors and to enjoy snacks. For those attending in person and virtually, an online floor plan was available for viewing information about the vendors. Photo courtesy of Amy Sullivan

**Radium Levels in Sludge Samples from Water Treatment Facilities**  
 D. James; J. Billa; S. Adzanu; M. Atkins; and J. Adjaye  
 Department of Advanced Technologies, Aicern State University, Lorman, MS 39096

**Abstract:**  
 Water is one of the most essential resources for living organisms. Unfortunately, in the United States, the city and town water supply is being contaminated by radium. Radium is a naturally occurring radioactive element that is found in the earth's crust. It is a heavy metal and is highly toxic. It is also a carcinogen. The radium in water is a health hazard. It can cause cancer and other health problems. The radium in water is a health hazard. It can cause cancer and other health problems. The radium in water is a health hazard. It can cause cancer and other health problems.

**Materials and Methods:**  
 The samples were collected from the selected water treatment plants and found at a concentration of 10 to 24 Bq/L. The most likely source being ground water. The radium in water is a health hazard. It can cause cancer and other health problems. The radium in water is a health hazard. It can cause cancer and other health problems.

**Activity Comparison:**

Location	Activity (Bq/L)
Vicksburg	2.664
Lorman	3.841
Natchez	3.422
EPA	1.0

**Figure 4: Radium Activity Concentration Comparison.**

It is observed from the figure above that, <sup>226</sup>Ra activity in the samples ranged from 1.0 pCi/g to 3.841 pCi/g. Lorman reported the highest activity of 3.841 pCi/g. EPA reported the lowest activity of 1.0 pCi/g.

**Conclusion:**  
 A total of 120 samples were collected from three selected treatment plants. The results of the radium activity in the water samples are shown in the figure above. The radium activity in the water samples is a health hazard. It can cause cancer and other health problems.

**References:**  
 1) Radon, Phosphate at EPA: The Final Rule EPA 816-B-00-001, 27 August 2000.  
 2) Radon, Phosphate and 6,7 Trinitrobenzene, Measurement and Detection of Radon, Phosphate, and 6,7 Trinitrobenzene, EPA/600/P-00/001, 2000.  
 3) Environmental Protection Agency (EPA), Office of Water, 1115 North Crystal Drive, Arlington, VA 22204.  
 4) Joint NRC/EPA Sludge Study, Environmental Health Service Program, The New York State, EPA 815-R-00-001, March 1999.



While in the exhibit hall, attendees could also find posters and Mirion's robot detector dog, Astro. Photos courtesy of Barbara Hamrick

## Advertisers/Sponsors

**Sponsored By:**



**Platinum**  

**Gold**   

**Silver**   

**Bronze**   

Thank you to the sponsors of the 67th HPS Annual Meeting.



Thank you to these advertisers and sponsors who support the HPS year-round and had booths in the exhibit hall, clockwise, Versant Medical Physics and Radiation Safety, Bionomics, Inc., Mirion Technologies, Ludlum Measurements, Inc., Eckert & Ziegler, ORAU, and Thermo Fisher Scientific. Photos courtesy of Casper Sun

[Return to Table of Contents](#)